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FIRST QUARTER 2004 OPERATION AND MAINTENANCE STATUS REPORT FOR BIOSPARGING AND SOIL VAPOR EXTRACTION SYSTEM AT DAY TANK 1 SITE NAS CECIL FIELD FL

6/1/2004

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FIRST QUARTER 2004
Operation and Maintenance Status Report
January 1, 2004 – March 31, 2004

BIOSPARGING AND SOIL VAPOR EXTRACTION SYSTEM
DAY TANK 1 SITE

Contract No. N62467-02-G-0352
Contract Task Order No. 0001

Naval Air Station Cecil Field
Jacksonville, Florida

Submitted to:

U.S. Naval Facilities Engineering Command Southern Division

Prepared by:

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June 2004

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Signature Page

I, James L. Young, do hereby affirm that the information contained in this report is accurate and correct to the best of my knowledge and belief.

		PG-FL2090, REM-6089
James L. Young, P.G., REM President/CEO TERRAINE, Inc	Date	Registration Nos.

Acronyms

ABB-ES	ABB Environmental Services, Inc.
acfh	actual cubic feet per hour
acfm	actual cubic feet per minute
AST	Aboveground Storage Tank
bls	below land surface
CCI	CH2M HILL Constructors, Inc.
CLEAN	Comprehensive Long-Term Environmental Action, Navy
CTO	Contract Task Order
DO	Dissolved Oxygen
EPA	U.S. Environmental Protection Agency
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
GCT	Groundwater Cleanup Target Levels
J.A. Jones	J.A. Jones Environmental Services
LNAPL	Light Non-Aqueous Phase Liquids
NAS	Naval Air Station
NAVFAC	Naval Facilities Engineering Command
O&M	Operation and Maintenance
PRO	Petroleum Range Organics
psi	pounds per square inch
RAP	Remedial Action Plan
SVOA	Semi-Volatile Organic Aromatics
TERRAINE	Terraine Environmental Services, Inc.
TtNUS	TetraTech NUS, Inc.
VCS	Vapor Collection System
VEW	Vapor Extraction Well
VOA	Volatile Organic Aromatics
VOC	Volatile Organic Compounds

1.0 Introduction

Terraine Environmental Services, Inc. (TERRAINE) has been contracted by the Department of the Navy, Southern Division Naval Facilities Engineering Command (NAVFAC), to provide Operation and Maintenance (O&M) services at Day Tank 1, Naval Air Station (NAS) Cecil Field, Jacksonville, Florida, under **Basic Ordering Agreement (BOA) Contract No. N62467-02-G-0352, Contract Task Order (CTO) No. 0001.** The purpose of this O&M Report is to provide a summary of activities performed at the site during the period of January 1, 2004 to March 31, 2004.

1.1 Objective

The objective of the remedial action at the site of Day Tank 1 is to reduce the concentrations of petroleum-related contaminants in the groundwater and unsaturated soils to target levels specified by Chapter 62-777 Florida Administrative Code (FAC). Biosparging/vapor collection was the technology being utilized to achieve this objective.

1.2 Site History

The Day Tank 1 site is located at the former NAS Cecil Field, approximately 1/8 mile south of the “A” Avenue gate on Jet Road. The site formerly contained a 200,000-gallon aboveground storage tank (AST), piping, and associated equipment to supply jet propellant fuel to the high-speed refuelers located on the flightline. It was reported that numerous spills occurred at the site over the course of the operation of the fuel delivery system (ABB Environmental Services, Inc. [ABB-ES], 1997). ABB-ES completed a contamination assessment for the facility in 1996, which documented the presence of petroleum-contaminated soil and groundwater at the site. A Remedial Action Plan (RAP) was subsequently developed by ABB-ES in 1997 for the excavation of 20,000 tons of petroleum-contaminated soil and the installation of a biosparging/vapor collection remediation system to address the contaminated groundwater at the site. In November 1999, CCI/J.A. Jones Environmental Services (J.A. Jones) removed the AST along with 24,000 tons of contaminated soil under Response Action Contract No. N62467-98-D-0995, CTO No. 0002 (CCI, 2000). The biosparge/vapor collection and start-up was performed on February 29, 2000. The system was operated and maintained by CCI/J.A. Jones under Response Action Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0002 for the first year of operation and then operated and maintained by CCI/J.A. Jones under Response Action Contract No. N62467-98-D-0995, CTO No. 0062. Currently, TERRAINE is operating and maintaining the system under BOA Contract No. N62467-02-G-0352, CTO No. 0001.

Due to the substantial reduction of contaminant concentrations in wells within the area of influence of the biosparge and soil vapor extraction system, the Florida Department of Environmental Protection (FDEP) approved deactivating the remediation system on approximately August 15, 2003. Post-active remediation monitoring in accordance with Chapter 62-770.750, FAC began at this time.

As a part of the post-active remediation monitoring, the following wells were to be sampled quarterly for volatile organic aromatics (VOAs) and semi-volatile organic aromatics (SVOAs)

for a period of one year to evaluate rebound: CEF-293-9, VEW-7, VEW-2, VEW-3, VEW-4, VEW-5, and CEF-293-22.

Following construction activities at the Day Tank 1 site during the months of October through December 2003, vapor extraction wells VEW-1 and VEW-2 were destroyed. The wells were reinstalled before the 4th quarter 2003 sampling event.

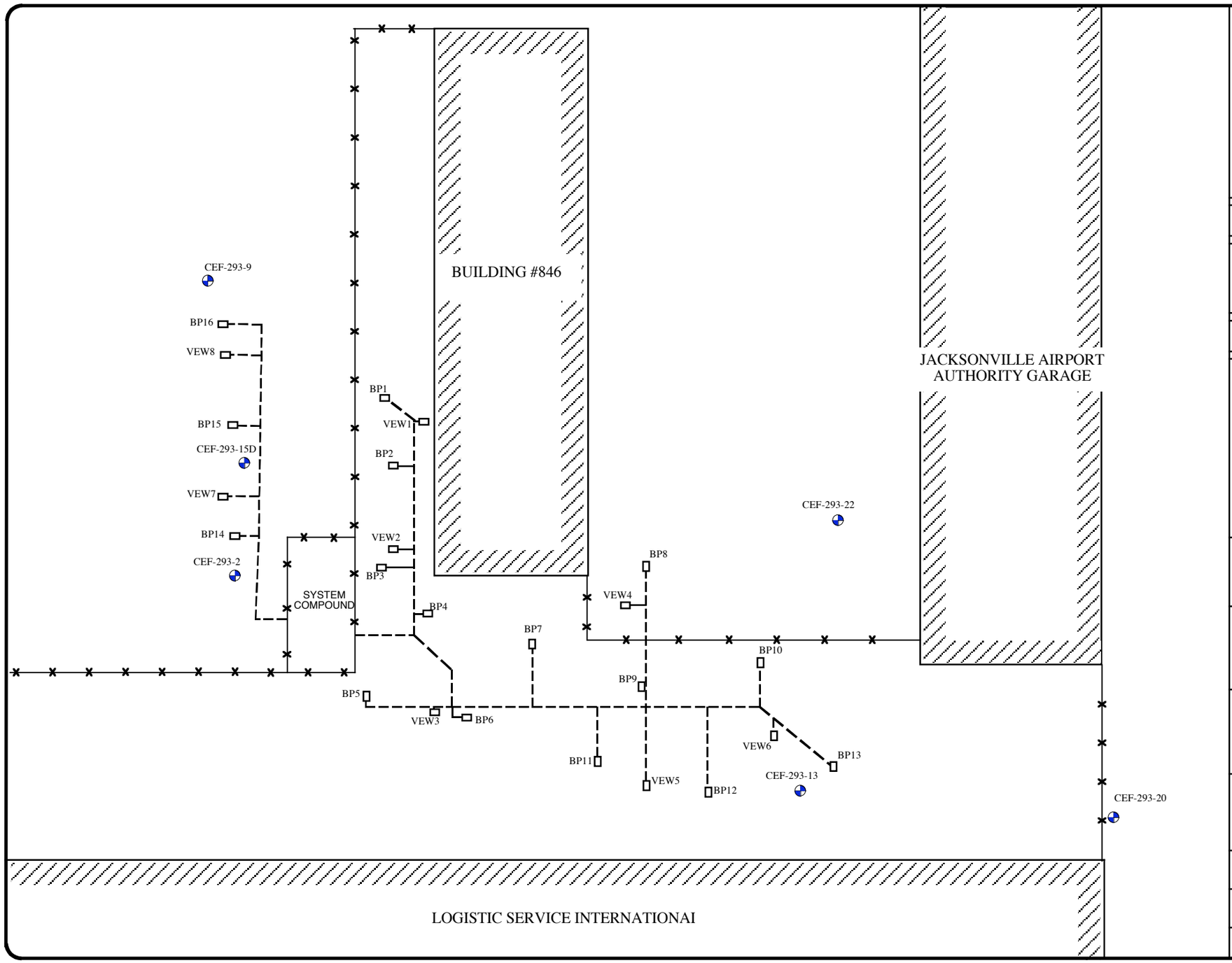
1.3 Remediation System/Technology Description

The chosen Vapor Collection System (VCS) technology utilizes the injection of compressed air into the groundwater to volatilize and promote biodegradation of dissolved organic compounds. The VCS was installed to recover the undissolved portion of the injected air.

The Biosparge System consists of 16 injection wells that are screened from 32 to 35 feet below land surface (bls), a rotary screw-type compressor, a receiver tank, two oil coalescing filters and associated piping and instrumentation. The Biosparge System is designed for each biosparge well to operate at an airflow rate of 60 actual cubic feet per hour (acfh) and at a wellhead pressure of 18 pounds per square inch (psi).

The VCS consists of eight extraction wells that are screened from 3 to 18 feet bls, a regenerative vacuum blower, a moisture separator equipped with a centrifugal transfer pump and storage tank, and associated piping and instrumentation. The VCS was initially equipped with two 1,000-pound granular activated carbon units (installed in series), which were removed after the first 30 days of operation based upon the concentrations of the pre-treatment air stream. The VCS is designed for each vapor extraction well to operate at an airflow rate of 6 actual cubic feet per minute (acfm) and at a vacuum pressure of 23 inches of water (in H_2O).

The locations of the biosparge/vapor extraction wells and the remediation system are shown on **Figure 1-1**.



NOTES

DASHED LINES INDICATE SUBSURFACE FEATURES

LEGEND

- FENCE
- UNDERGROUND LINES
- VAULT COVER
- MONITORING WELL

TERRAINE

DAY TANK 1
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FL

40.00 ft.

DWN BY: DNH	CHK BY: MJP
SCALE: 1" = 40'	APR BY: JLY
DATE: 12/30/02	FILE:

2.0 System Performance Monitoring

The system was shut down on approximately August 15, 2003 as a result of FDEP approval for system deactivation. Post-active remediation O&M checks were performed during the first quarter of 2004 on January 16, February 27, and March 23.

During a post-active remediation O&M check, the system is activated for a period of 15 minutes, a preventative maintenance checklist (based upon manufacturer's recommendations) is completed, and any required maintenance activity is performed.

2.1 Operational Efficiencies

During the January 16, 2004 O&M check, the system shut down after 13 minutes as a result of a compressor malfunction. The same problem occurred during the February and March O&M checks. Due to access issues, no maintenance was performed during the 1st quarter, 2004.

2.2 Summary of Maintenance

System maintenance is scheduled for 2nd quarter, 2004.

2.3 Pressure/Flow Rate Monitoring

2.3.1 Air Sparge System

As a result of FDEP approval for system deactivation, pressure at each sparge wellhead and airflow rate at each header pipe were not measured during the first quarter of 2004. The data from the flow and pressure measurement events from previous quarters are provided in **Table 2-1**. The well head design pressure for the shallow sparge wells is 18psi. The design air injection rate for each sparge well is 60 acfh.

2.3.2 Vapor Extraction System

During the 1st quarter 2004, vacuum pressure at each vapor extraction wellhead and the airflow rate at each header pipe were not measured as a result of FDEP approval for system deactivation. The data from the flow and vacuum pressure measurement events from previous quarters are provided on **Table 2-2**. The design wellhead vacuum pressure for the vapor extraction wells is 23 inches of water. The design airflow rate for each extraction well is 6 acfm.

2.4 Groundwater Level Measurements

Depth-to-groundwater/Light Non-Aqueous Phase Liquid (LNAPL) measurements were recorded at selected monitoring wells on a quarterly basis during the monitoring period. The top-of-casing elevation, depth-to-LNAPL measurements, depth-to-water measurements,

calculated LNAPL thickness and calculated water level elevations are provided on **Table 2-3**.

No LNAPL was discovered in vapor extraction well VEW-1 during the first quarter 2004.

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-01	2/29/2000	60	3
	3/1/2000	60	5
	3/2/2000	60	6
	4/7/2000	65	NM
	4/24/2000	60	12
	5/30/2000	60	11
	7/24/2000	60	12
	8/22/2000	60	12
	10/30/2000	60	11
	11/27/2000	60	11
	12/11/2000	60	10
	1/29/2001	60	11
	2/26/2001	70	10
	4/16/2001	55	11
	5/21/2001	55	10.5
	7/3/2001	55	10
	7/30/2001	50	11
	8/29/2001	55	10
	9/18/2001	40	10
	10/29/2001	60	10
	11/26/2001	60	10
	12/12/2001	55	10
	1/30/2002	50	10
	2/25/2002	60	10
	3/28/2002	50	12
	4/15/2002	60	12
	5/20/2002	60	12
	6/26/2002	60	12
	7/29/2002	60	12
	8/12/2002	60	12
	9/23/2002	NM	NM
	10/17/2002	60	10
	11/14/2002	14	15
	12/19/2002	60	15
	2/26/2003	NM	NM
	3/13/2003	12	18
	4/10/2003	12	18
	6/27/2003	9	14

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-02	2/29/2000	60	10
	3/1/2000	60	10
	3/2/2000	62	10
	4/7/2000	65	10
	4/24/2000	60	10
	5/30/2000	60	10
	7/24/2000	55	10
	8/22/2000	60	10
	10/30/2000	60	10
	11/27/2000	60	10
	12/11/2000	60	10
	1/29/2001	65	10
	2/26/2001	75	9
	4/16/2001	60	10
	5/21/2001	55	10
	7/3/2001	45	10
	7/30/2001	60	10
	8/29/2001	50	10
	9/18/2001	55	10
	10/29/2001	60	10
	11/26/2001	60	10
	12/12/2001	55	10
	1/30/2002	55	10
	2/25/2002	60	10
	3/28/2002	60	10
	4/15/2002	60	10
	5/20/2002	60	10
	6/26/2002	60	10
	7/29/2002	60	10
	8/12/2002	60	10
	9/23/2002	NM	NM
	10/17/2002	50	14
	11/14/2002	16	13
	12/19/2002	62	11
	2/26/2003	NM	NM
	3/13/2003	12	18
	4/10/2003	12	18
	6/27/2003	9	14

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-03	2/29/2000	60	10
	3/1/2000	60	10
	3/2/2000	64	9.5
	4/7/2000	65	8
	4/24/2000	60	10
	5/30/2000	NM	10
	7/24/2000	120	10
	8/22/2000	NM	10
	10/30/2000	120	10
	11/27/2000	120	10
	12/11/2000	NM	10
	1/29/2001	NM	10
	2/26/2001	120	9
	4/16/2001	NM	10
	5/21/2001	NM	10
	7/3/2001	NM	10
	7/30/2001	NM	10
	8/29/2001	NM	10
	9/18/2001	NM	10
	10/29/2001	NM	10
	11/26/2001	NM	10
	12/12/2001	NM	10
	1/30/2002	NM	10
	2/25/2002	60	10
	3/28/2002	NM	10
	4/15/2002	60	10
	5/20/2002	60	10
	6/26/2002	60	10
	7/29/2002	60	10
	8/12/2002	60	10
	9/23/2002	NM	NM
	10/17/2002	60	11
	11/14/2002	13	13
	12/19/2002	62	10
	2/26/2003	NM	NM
	3/13/2003	12	18
	4/10/2003	12	18
	6/27/2003	10	16

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-04	2/29/2000	60	10
	3/1/2000	60	10
	3/2/2000	62	10
	4/7/2000	65	10
	4/24/2000	60	10
	5/30/2000	60	10
	7/24/2000	50	10
	8/22/2000	60	10
	10/30/2000	60	11
	11/27/2000	60	10
	12/11/2000	60	10
	1/29/2001	60	10
	2/26/2001	50	10
	4/16/2001	60	10
	5/21/2001	60	10
	7/3/2001	60	10
	7/30/2001	60	10
	8/29/2001	60	10
	9/18/2001	60	10
	10/29/2001	55	10
	11/26/2001	60	10
	12/12/2001	65	10
	1/30/2002	60	10
	2/25/2002	60	10
	3/28/2002	60	10
	4/15/2002	60	10
	5/20/2002	60	10
	6/26/2002	55	10
	7/29/2002	55	10
	8/12/2002	60	12
	9/23/2002	NM	NM
	10/17/2002	60	12
	11/14/2002	15	9
	12/19/2002	61	11
	2/26/2003	NM	NM
	3/13/2003	12	18
	4/10/2003	12	18
	6/27/2003	10	16

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-05	2/29/2000	60	10
	3/1/2000	60	10
	3/2/2000	60	10
	4/7/2000	60	10
	4/24/2000	60	10
	5/30/2000	60	10
	7/24/2000	50	10
	8/22/2000	60	10
	10/30/2000	60	10
	11/27/2000	60	10
	12/11/2000	65	10
	1/29/2001	60	10
	2/26/2001	70	9
	4/16/2001	60	10
	5/21/2001	60	10
	7/3/2001	35	10
	7/30/2001	40	10
	8/29/2001	45	10
	9/18/2001	50	10
	10/29/2001	60	10
	11/26/2001	60	10
	12/12/2001	60	10
	1/30/2002	60	10
	2/25/2002	60	10
	3/28/2002	60	10
	4/15/2002	60	10
	5/20/2002	40	10
	6/26/2002	60	10
	7/29/2002	50	10
	8/12/2002	60	10
	9/23/2002	NM	NM
	10/17/2002	50	13
	11/14/2002	15	10
	12/19/2002	61	10
	2/26/2003	NM	NM
	3/13/2003	12	16
	4/10/2003	11	16
	6/27/2003	10	16

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-06	2/29/2000	60	10
	3/1/2000	60	10
	3/2/2000	60	10
	4/7/2000	65	10
	4/24/2000	60	10
	5/30/2000	60	10
	7/24/2000	60	10
	8/22/2000	60	10
	10/30/2000	60	10
	11/27/2000	60	10
	12/11/2000	70	10
	1/29/2001	60	10
	2/26/2001	80	10
	4/16/2001	60	10
	5/21/2001	60	10
	7/3/2001	40	10
	7/30/2001	50	10
	8/29/2001	60	10
	9/18/2001	60	10
	10/29/2001	50	10
	11/26/2001	NA	NA
	12/12/2001	60	10
	1/30/2002	60	9
	2/25/2002	60	10
	3/28/2002	60	10
	4/15/2002	60	10
	5/20/2002	60	10
	6/26/2002	50	10
	7/29/2002	60	10
	8/12/2002	60	10
	9/23/2002	NM	NM
	10/17/2002	60	11
	11/14/2002	15	10
	12/19/2002	61	12
	2/26/2003	NM	NM
	3/13/2003	12	16
	4/10/2003	11	16
	6/27/2003	9.0	14

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-07	2/29/2000	0	10
	3/1/2000	65	10
	3/2/2000	60	10
	4/7/2000	60	10
	4/24/2000	55	10
	5/30/2000	60	10
	7/24/2000	50	10
	8/22/2000	60	10
	10/30/2000	60	10
	11/27/2000	60	10
	12/11/2000	70	10
	1/29/2001	60	10
	2/26/2001	80	8
	4/16/2001	60	10
	5/21/2001	65	10
	7/3/2001	60	10
	7/30/2001	60	10
	8/29/2001	60	10
	9/18/2001	55	10
	10/29/2001	55	10
	11/26/2001	60	10
	12/12/2001	60	10
	1/30/2002	60	10
	2/25/2002	60	10
	3/28/2002	55	10
	4/15/2002	60	10
	5/20/2002	50	10
	6/26/2002	60	10
	7/29/2002	55	10
	8/12/2002	60	10
	9/23/2002	NM	NM
	10/17/2002	50	10
	11/14/2002	16	11
	12/19/2002	60	10
	2/26/2003	NM	NM
	3/13/2003	11.5	18
	4/10/2003	11	16
	6/27/2003	10	16

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-08	2/29/2000	65	10
	3/1/2000	65	10
	3/2/2000	60	10
	4/7/2000	60	10
	4/24/2000	NM	NM
	5/30/2000	50	10
	7/24/2000	60	10
	8/22/2000	60	10
	10/30/2000	60	10
	11/27/2000	60	10
	12/11/2000	60	10
	1/29/2001	50	10
	2/26/2001	25	9
	4/16/2001	70	10
	5/21/2001	55	10
	7/3/2001	30	10
	7/30/2001	50	10
	8/29/2001	60	10
	9/18/2001	45	10
	10/29/2001	55	10
	11/26/2001	60	10
	12/12/2001	60	10
	1/30/2002	60	10
	2/25/2002	60	10
	3/28/2002	60	11
	4/15/2002	60	10
	5/20/2002	60	10
	6/26/2002	60	11
	7/29/2002	60	10
	8/12/2002	NM	NM
	9/23/2002	NM	NM
	10/17/2002	60	10
	11/14/2002	15	10
	12/19/2002	60	11
	2/26/2003	NM	NM
	3/13/2003	12	18
	4/10/2003	11	16
	6/27/2003	10	16

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-09	2/29/2000	60	10
	3/1/2000	65	12
	3/2/2000	NM	NM
	4/7/2000	65	10
	4/24/2000	NM	NM
	5/30/2000	60	10
	7/24/2000	60	10
	8/22/2000	60	10
	10/30/2000	60	10
	11/27/2000	60	10
	12/11/2000	60	10
	1/29/2001	70	10
	2/26/2001	70	10
	4/16/2001	65	10
	5/21/2001	60	10
	7/3/2001	50	10
	7/30/2001	60	10
	8/29/2001	60	10
	9/18/2001	60	10
	10/29/2001	55	10
	11/26/2001	60	10
	12/12/2001	60	10
	1/30/2002	65	10
	2/25/2002	60	10
	3/28/2002	60	10
	4/15/2002	60	10
	5/20/2002	60	10
	6/26/2002	65	10
	7/29/2002	60	10
	8/12/2002	60	10
	9/23/2002	NM	NM
	10/17/2002	50	11
	11/14/2002	16	10
	12/19/2002	61	12
	2/26/2003	NM	NM
	3/13/2003	12	18
	4/10/2003	11	16
	6/27/2003	10	16

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-10	2/29/2000	60	10
	3/1/2000	60	10
	3/2/2000	60	10
	4/7/2000	NM	10
	4/24/2000	NM	NM
	5/30/2000	60	10
	7/24/2000	50	10
	8/22/2000	55	10
	10/30/2000	60	10
	11/27/2000	60	10
	12/11/2000	65	10
	1/29/2001	60	10
	2/26/2001	80	10
	4/16/2001	80	10
	5/21/2001	70	10
	7/3/2001	40	10
	7/30/2001	50	10
	8/29/2001	55	10
	9/18/2001	60	10
	10/29/2001	60	10
	11/26/2001	60	10
	12/12/2001	60	10
	1/30/2002	60	10
	2/25/2002	60	9
	3/28/2002	60	12
	4/15/2002	60	10
	5/20/2002	60	12
	6/26/2002	50	10
	7/29/2002	60	10
	8/12/2002	NM	NM
	9/23/2002	NM	NM
	10/17/2002	60	10
	11/14/2002	16	10
	12/19/2002	NM	NM
	2/26/2003	NM	NM
	3/13/2003	12	18
	4/10/2003	11.5	18
	6/27/2003	10	16

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-11	2/29/2000	60	10
	3/1/2000	60	10
	3/2/2000	60	10
	4/7/2000	60	10
	4/24/2000	NM	NM
	5/30/2000	60	10
	7/24/2000	60	10
	8/22/2000	60	10
	10/30/2000	60	10
	11/27/2000	60	10
	12/11/2000	60	10
	1/29/2001	50	10
	2/26/2001	50	10
	4/16/2001	55	11
	5/21/2001	50	10
	7/3/2001	30	10
	7/30/2001	60	10
	8/29/2001	50	10
	9/18/2001	60	10
	10/29/2001	55	10
	11/26/2001	60	10
	12/12/2001	60	10
	1/30/2002	60	10
	2/25/2002	66	10
	3/28/2002	60	10
	4/15/2002	60	10
	5/20/2002	55	10
	6/26/2002	60	11
	7/29/2002	60	10
	8/12/2002	60	10
	9/23/2002	NM	NM
	10/17/2002	60	10
	11/14/2002	16	9
	12/19/2002	NM	NM
	2/26/2003	NM	NM
	3/13/2003	11.5	16
	4/10/2003	11.5	18
	6/27/2003	10.0	14

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-12	2/29/2000	NM	NM
	3/1/2000	65	NM
	3/2/2000	60	NM
	4/7/2000	65	NM
	4/24/2000	NM	NM
	5/30/2000	55	10
	7/24/2000	60	10
	8/22/2000	60	10
	10/30/2000	60	10.5
	11/27/2000	60	10
	12/11/2000	65	10
	1/29/2001	NM	NM
	2/26/2001	60	10
	4/16/2001	60	10
	5/21/2001	50	10
	7/3/2001	20	10
	7/30/2001	50	10
	8/29/2001	50	10
	9/18/2001	60	12
	10/29/2001	60	10
	11/26/2001	40	10
	12/12/2001	60	10
	1/30/2002	55	10
	2/25/2002	60	11
	3/28/2002	50	10
	4/15/2002	60	12
	5/20/2002	40	12
	6/26/2002	55	10
	7/29/2002	60	10
	8/12/2002	60	11
	9/23/2002	NM	NM
	10/17/2002	60	10
	11/14/2002	15	9
	12/19/2002	61	14
	2/26/2003	NM	NM
	3/13/2003	NM	NM
	4/10/2003	NM	NM
	6/27/2003	9	14

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-13	2/29/2000	65	10
	3/1/2000	65	10
	3/2/2000	60	10
	4/7/2000	65	10
	4/24/2000	60	10
	5/30/2000	60	10
	7/24/2000	40	10
	8/22/2000	60	10
	10/30/2000	65	10
	11/27/2000	60	10
	12/11/2000	65	10
	1/29/2001	50	10
	2/26/2001	20	9
	4/16/2001	60	10
	5/21/2001	65	10
	7/3/2001	65	10
	7/30/2001	60	10
	8/29/2001	60	10
	9/18/2001	60	10
	10/29/2001	60	10
	11/26/2001	60	10
	12/12/2001	60	10
	1/30/2002	60	10
	2/25/2002	60	10
	3/28/2002	60	10
	4/15/2002	60	10
	5/20/2002	70	10
	6/26/2002	60	10
	7/29/2002	60	10
	8/12/2002	60	10
	9/23/2002	NM	NM
	10/17/2002	50	11
	11/14/2002	16	11
	12/19/2002	62	15
	2/26/2003	NM	NM
	3/13/2003	NM	NM
	4/10/2003	NM	NM
	6/27/2003	9	14

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-14	2/29/2000	60	16
	3/1/2000	60	16
	3/2/2000	60	16
	4/7/2000	55	16
	4/24/2000	55	16
	5/30/2000	NM	10
	7/24/2000	60	16
	8/22/2000	60	16
	10/30/2000	70	18
	11/27/2000	60	18
	12/11/2000	60	10
	1/29/2001	65	10
	2/26/2001	70	12
	4/16/2001	60	10
	5/21/2001	60	16
	7/3/2001	50	18
	7/30/2001	50	14
	8/29/2001	55	15
	9/18/2001	60	16
	10/29/2001	60	10
	11/26/2001	60	15
	12/12/2001	60	10
	1/30/2002	60	10
	2/25/2002	60	16
	3/28/2002	55	12
	4/15/2002	60	16
	5/20/2002	60	14
	6/26/2002	60	10
	7/29/2002	55	16
	8/12/2002	60	17
	9/23/2002	NM	NM
	10/17/2002	60	14
	11/14/2002	NM	NM
	12/19/2002	80	18
	2/26/2003	NM	NM
	3/13/2003	NM	NM
	4/10/2003	NM	NM
	6/27/2003	10	14

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-15	2/29/2000	60	10
	3/1/2000	60	10
	3/2/2000	60	10
	4/7/2000	60	10
	4/24/2000	55	10
	5/30/2000	60	10
	7/24/2000	60	10
	8/22/2000	60	10
	10/30/2000	60	10
	11/27/2000	60	10
	12/11/2000	60	10
	1/29/2001	60	10
	2/26/2001	60	9
	4/16/2001	50	10
	5/21/2001	50	10
	7/3/2001	30	10
	7/30/2001	50	10
	8/29/2001	50	10
	9/18/2001	60	10
	10/29/2001	60	10
	11/26/2001	60	10
	12/12/2001	60	10
	1/30/2002	65	10
	2/25/2002	60	10
	3/28/2002	60	10
	4/15/2002	60	10
	5/20/2002	55	10
	6/26/2002	60	10
	7/29/2002	60	10
	8/12/2002	60	11
	9/23/2002	NM	NM
	10/17/2002	50	12
	11/14/2002	NM	NM
	12/19/2002	80	12
	2/26/2003	NM	NM
	3/13/2003	11.5	16
	4/10/2003	11.0	16
	6/27/2003	NM	NM

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-16	2/29/2000	60	10
	3/1/2000	60	10
	3/2/2000	60	10
	4/7/2000	65	10
	4/24/2000	60	10
	5/30/2000	60	10
	7/24/2000	60	10
	8/22/2000	60	10
	10/30/2000	70	10
	11/27/2000	60	10
	12/11/2000	60	10
	1/29/2001	60	10
	2/26/2001	70	10
	4/16/2001	60	10
	5/21/2001	60	10
	7/3/2001	50	10
	7/30/2001	50	10
	8/29/2001	60	10
	9/18/2001	60	10
	10/29/2001	60	10
	11/26/2001	60	10
	12/12/2001	60	10
	1/30/2002	60	10
	2/25/2002	60	10
	3/28/2002	60	10
	4/15/2002	60	10
	5/20/2002	55	10
	6/26/2002	55	10
	7/29/2002	60	10
	8/12/2002	60	10
	9/23/2002	NM	NM
	10/17/2002	60	10
	11/14/2002	NM	NM
	12/19/2002	60	10
	2/26/2003	NM	NM
	3/13/2003	11.5	16
	4/10/2003	11	16
	6/27/2003	NM	NM

NM = not measured
psi = pounds per square inch
acfh = actual cubic feet per hour

TABLE 2-2
VAPOR COLLECTION SYSTEM WELLHEAD VACUUM/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Vapor Extraction Well	Date	Wellhead Flow (acfm)	Wellhead Vacuum (in H_2O)
VEW-1	2/29/2000	4	38
	3/1/2000	4	38
	3/2/2000	2	39
	4/7/2000	3	41
	4/24/2000	2	40
	5/30/2000	6	6
	7/24/2000	11	2
	8/22/2000	7	8
	10/30/2000	4	10
	11/27/2000	6	10
	12/11/2000	5	8
	1/29/2001	4	21
	2/26/2001	5	15
	4/16/2001	6	8
	5/21/2001	5	36
	7/3/2001	5	42
	7/30/2001	6	50
	8/29/2001	5	NM
	9/18/2001	3	22
	10/29/2001	5	45
	11/26/2001	6	35
	12/12/2001	5	45
	1/30/2002	6	44
	2/25/2002	8	20
	3/28/2002	7	35
	4/15/2002	8	40
	5/20/2002	9	33
	6/26/2002	7	35
	7/29/2002	7	40
	8/12/2002	8	32
	9/23/2002	NM	NM
	10/17/2002	6	37
	11/14/2002	14	11
	12/19/2002	NM	NM
	2/26/2003	NM	NM
	3/13/2003	16	20
	4/10/2003	16	20
	6/27/2003	16	18

TABLE 2-2
VAPOR COLLECTION SYSTEM WELLHEAD VACUUM/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Vapor Extraction Well	Date	Wellhead Flow (acfm)	Wellhead Vacuum (in H_2O)
VEW-2	2/29/2000	6	26
	3/1/2000	6	26
	3/2/2000	5	23
	4/7/2000	NM	40
	4/24/2000	NM	28
	5/30/2000	1	26
	7/24/2000	2	27
	8/22/2000	0	25
	10/30/2000	7	26
	11/27/2000	4	20
	12/11/2000	6	20
	1/29/2001	4	25
	2/26/2001	8	25
	4/16/2001	6	20
	5/21/2001	3	34
	7/3/2001	4	20
	7/30/2001	6	25
	8/29/2001	5	20
	9/18/2001	4	27
	10/29/2001	6	28
	11/26/2001	6	32
	12/12/2001	5	46
	1/30/2002	7	49
	2/25/2002	7	32
	3/28/2002	6	20
	4/15/2002	5	23
	5/20/2002	6	23
	6/26/2002	6	23
	7/29/2002	5	36
	8/12/2002	3	23
	9/23/2002	NM	NM
	10/17/2002	0	22
	11/14/2002	16	23
	12/19/2002	6	25
	2/26/2003	NM	NM
	3/13/2003	18	22
	4/10/2003	16	20
	6/27/2003	16	18

TABLE 2-2
VAPOR COLLECTION SYSTEM WELLHEAD VACUUM/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Vapor Extraction Well	Date	Wellhead Flow (acfm)	Wellhead Vacuum (in H_2O)
VEW-3	2/29/2000	8	28
	3/1/2000	8	28
	3/2/2000	6	19
	4/7/2000	6	18
	4/24/2000	6	16
	5/30/2000	6	13
	7/24/2000	2	30
	8/22/2000	6	1
	10/30/2000	5	10.5
	11/27/2000	6	15
	12/11/2000	6.5	14
	1/29/2001	6	15
	2/26/2001	6	15
	4/16/2001	5	14
	5/21/2001	6	10
	7/3/2001	7	8
	7/30/2001	6	10
	8/29/2001	6	10
	9/18/2001	6	10
	10/29/2001	6	10
	11/26/2001	NA	NA
	12/12/2001	8	60
	1/30/2002	6	42
	2/25/2002	6	27
	3/28/2002	8	28
	4/15/2002	7	42
	5/20/2002	9	25
	6/26/2002	8	29
	7/29/2002	7	31
	8/12/2002	13	23
	9/23/2002	NM	NM
	10/17/2002	14	11
	11/14/2002	16	10
	12/19/2002	6	25
	2/26/2003	NM	NM
	3/13/2003	18	22
	4/10/2003	16	20
	6/27/2003	16	18

TABLE 2-2
VAPOR COLLECTION SYSTEM WELLHEAD VACUUM/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Vapor Extraction Well	Date	Wellhead Flow (acfm)	Wellhead Vacuum (in H_2O)
VEW-4	2/29/2000	8	38
	3/1/2000	8	38
	3/2/2000	5	37
	4/7/2000	7	14
	4/24/2000	NM	NM
	5/30/2000	6	31
	7/24/2000	6	15
	8/22/2000	6	8
	10/30/2000	7	8
	11/27/2000	7	8
	12/11/2000	7	7
	1/29/2001	6	5
	2/26/2001	6	12
	4/16/2001	8	5
	5/21/2001	10	15
	7/3/2001	8	6
	7/30/2001	6	10
	8/29/2001	8	5
	9/18/2001	5	4
	10/29/2001	6	12
	11/26/2001	6	31
	12/12/2001	6	54
	1/30/2002	6	40
	2/25/2002	6	30
	3/28/2002	6	31
	4/15/2002	6	32
	5/20/2002	6	27
	6/26/2002	6	31
	7/29/2002	6	36
	8/12/2002	NM	NM
	9/23/2002	NM	NM
	10/17/2002	NM	NM
	11/14/2002	15	20
	12/19/2002	5	20
	2/26/2003	NM	NM
	3/13/2003	18	22
	4/10/2003	14	18
	6/27/2003	16	20

TABLE 2-2
VAPOR COLLECTION SYSTEM WELLHEAD VACUUM/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Vapor Extraction Well	Date	Wellhead Flow (acfm)	Wellhead Vacuum (in H_2O)
VEW-5	2/29/2000	5	38
	3/1/2000	5	38
	3/2/2000	4	37
	4/7/2000	6	40
	4/24/2000	5	24
	5/30/2000	6	5
	7/24/2000	6	0
	8/22/2000	6	6
	10/30/2000	6	32
	11/27/2000	6	15
	12/11/2000	6	18
	1/29/2001	7	10
	2/26/2001	7	18
	4/16/2001	6	18
	5/21/2001	6	24
	7/3/2001	6	NM
	7/30/2001	6	32
	8/29/2001	6	15
	9/18/2001	4	29
	10/29/2001	6	30
	11/26/2001	6	25
	12/12/2001	6	51
	1/30/2002	10	36
	2/25/2002	6	33
	3/28/2002	6	38
	4/15/2002	6	39
	5/20/2002	6	33
	6/26/2002	6	34
	7/29/2002	5	40
	8/12/2002	5	35
	9/23/2002	NM	NM
	10/17/2002	0	3
	11/14/2002	16	21
	12/19/2002	8	25
	2/26/2003	NM	NM
	3/13/2003	18	22
	4/10/2003	16	20
	6/27/2003	18	20

TABLE 2-2
VAPOR COLLECTION SYSTEM WELLHEAD VACUUM/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Vapor Extraction Well	Date	Wellhead Flow (acfm)	Wellhead Vacuum (in H_2O)
VEW-6	2/29/2000	4	38
	3/1/2000	4	38
	3/2/2000	4	39
	4/7/2000	6	43
	4/24/2000	6	40
	5/30/2000	6	41
	7/24/2000	6	40
	8/22/2000	6	10
	10/30/2000	6	39
	11/27/2000	7	13
	12/11/2000	8	20
	1/29/2001	7	15
	2/26/2001	10	56
	4/16/2001	6	20
	5/21/2001	6	17
	7/3/2001	5	NM
	7/30/2001	6	45
	8/29/2001	6	18
	9/18/2001	4	NM
	10/29/2001	6	35
	11/26/2001	6	15
	12/12/2001	6	55
	1/30/2002	6	40
	2/25/2002	6	33
	3/28/2002	6	39
	4/15/2002	6	39
	5/20/2002	6	35
	6/26/2002	9	35
	7/29/2002	6	34
	8/12/2002	9	32
	9/23/2002	NM	NM
	10/17/2002	9	32
	11/14/2002	16	21
	12/19/2002	10	30
	2/26/2003	NM	NM
	3/13/2003	16	20
	4/10/2003	18	20
	6/27/2003	18	20

TABLE 2-2
VAPOR COLLECTION SYSTEM WELLHEAD VACUUM/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Vapor Extraction Well	Date	Wellhead Flow (acfm)	Wellhead Vacuum (in H_2O)
VEW-7	2/29/2000	11	22
	3/1/2000	11	24
	3/2/2000	6	18
	4/7/2000	6	40
	4/24/2000	6	15
	5/30/2000	5	32
	7/24/2000	6	5
	8/22/2000	6	5
	10/30/2000	7	5
	11/27/2000	7	7
	12/11/2000	7	5
	1/29/2001	6	6
	2/26/2001	10	5
	4/16/2001	7	5
	5/21/2001	6	16
	7/3/2001	10	7
	7/30/2001	6	5
	8/29/2001	8	6
	9/18/2001	5	NM
	10/29/2001	5	6
	11/26/2001	8	6
	12/12/2001	8	58
	1/30/2002	6	26
	2/25/2002	6	20
	3/28/2002	7	23
	4/15/2002	7	30
	5/20/2002	9	19
	6/26/2002	9	23
	7/29/2002	7	42
	8/12/2002	7	32
	9/23/2002	NM	NM
	10/17/2002	6	2
	11/14/2002	16	20
	12/19/2002	5	0
	2/26/2003	NM	NM
	3/13/2003	NM	NM
	4/10/2003	NM	NM
	6/27/2003	18	20

TABLE 2-2
VAPOR COLLECTION SYSTEM WELLHEAD VACUUM/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Vapor Extraction Well	Date	Wellhead Flow (acfm)	Wellhead Vacuum (in H_2O)
VEW-8	2/29/2000	8	24
	3/1/2000	8	24
	3/2/2000	6	22
	4/7/2000	7	20
	4/24/2000	6	20
	5/30/2000	6	17
	7/24/2000	6	14
	8/22/2000	6	14
	10/30/2000	6	14
	11/27/2000	6	15
	12/11/2000	6	14
	1/29/2001	6	15
	2/26/2001	7	15
	4/16/2001	6	15
	5/21/2001	6	14
	7/3/2001	8	25
	7/30/2001	6	25
	8/29/2001	6	20
	9/18/2001	4	6
	10/29/2001	5	25
	11/26/2001	6	15
	12/12/2001	6	53
	1/30/2002	6	36
	2/25/2002	6	27
	3/28/2002	6	31
	4/15/2002	6	37
	5/20/2002	6	27
	6/26/2002	6	27
	7/29/2002	6	32
	8/12/2002	6	31
	9/23/2002	NM	NM
	10/17/2002	4	28
	11/14/2002	16	21
	12/19/2002	6	25
	2/26/2003	NM	NM
	3/13/2003	16	20
	4/10/2003	18	20
	6/27/2003	NM	NM

NM = not measured
in H_2O = inches of water
acfm = actual cubic feet per minute

TABLE 2-3
DEPTH TO GROUNDWATER/LNAPL MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Date	Top of Casing Elevation (Feet)	Depth to LNAPL (Feet)	Depth to Water (Feet)	LNAPL Thickness (Feet)	Water Level Elevation (Feet)
CEF-293-01	06/13/00	NA	none present	8.79	0.00	NA
	09/14/00		none present	5.55	0.00	NA
	12/21/00		none present	7.72	0.00	NA
	03/15/01		none present	8.03	0.00	NA
	06/25/01		none present	7.37	0.00	NA
	09/19/01		none present	4.17	0.00	NA
	10/03/01		none present	NM	0.00	NA
	12/19/01		none present	7.43	0.00	NA
	03/20/02		none present	7.00	0.00	NA
	06/04/02		none present	7.99	0.00	NA
	09/23/02		none present	5.69	0.00	NA
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	NM	0.00	NA
CEF-293-02	06/13/00	NA	none present	9.70	0.00	NA
	09/14/00		none present	6.83	0.00	NA
	12/21/00		none present	8.81	0.00	NA
	03/15/01		none present	9.22	0.00	NA
	06/25/01		none present	8.36	0.00	NA
	09/19/01		none present	5.87	0.00	NA
	10/03/01		none present	NM	0.00	NA
	12/19/01		none present	8.53	0.00	NA
	03/20/02		none present	8.06	0.00	NA
	06/04/02		none present	9.00	0.00	NA
	09/23/02		none present	6.50	0.00	NA
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	NM	0.00	NA
CEF-293-04	06/13/00	77.22	none present	9.45	0.00	67.77
	09/14/00		none present	5.44	0.00	71.78
	12/21/00		none present	8.33	0.00	68.89
	03/15/01		none present	8.62	0.00	68.60
	06/25/01		none present	7.75	0.00	69.47
	09/19/01		none present	1.85	0.00	75.37
	10/03/01		none present	6.33	0.00	70.89
	12/19/01		none present	7.74	0.00	69.48
	03/20/02		none present	7.39	0.00	69.83
	06/04/02		none present	8.61	0.00	68.61
	09/23/02		none present	2.85	0.00	74.37
	12/11/02		none present	3.12	0.00	74.10
	03/11/03		none present	0.92	0.00	76.30

TABLE 2-3
DEPTH TO GROUNDWATER/LNAPL MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Date	Top of Casing Elevation (Feet)	Depth to LNAPL (Feet)	Depth to Water (Feet)	LNAPL Thickness (Feet)	Water Level Elevation (Feet)
CEF-293-05	06/13/00	NA	none present	9.01	0.00	NA
	09/14/00		none present	3.18	0.00	NA
	12/21/00		none present	7.95	0.00	NA
	03/15/01		none present	NM	0.00	NA
	06/25/01		none present	NM	0.00	NA
	09/19/01		none present	1.95	0.00	NA
	10/03/01		none present	NM	0.00	NA
	12/19/01		none present	7.59	0.00	NA
	03/20/02		none present	7.26	0.00	NA
	06/04/02		none present	8.22	0.00	NA
	09/23/02		none present	5.81	0.00	NA
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	NM	0.00	NA
CEF-293-06	06/13/00	NA	none present	9.77	0.00	NA
	09/14/00		none present	6.89	0.00	NA
	12/21/00		none present	8.75	0.00	NA
	03/15/01		none present	9.00	0.00	NA
	06/25/01		none present	8.39	0.00	NA
	09/19/01		none present	5.85	0.00	NA
	10/03/01		none present	NM	0.00	NA
	12/19/01		none present	8.44	0.00	NA
	03/20/02		none present	8.15	0.00	NA
	06/04/02		none present	9.03	0.00	NA
	09/23/02		none present	6.99	0.00	NA
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	NM	0.00	NA
CEF-293-07	06/13/00	NA	none present	9.95	0.00	NA
	09/14/00		none present	6.85	0.00	NA
	12/21/00		none present	8.92	0.00	NA
	03/15/01		none present	9.29	0.00	NA
	06/25/01		none present	8.60	0.00	NA
	09/19/01		none present	5.44	0.00	NA
	10/03/01		none present	NM	0.00	NA
	12/19/01		none present	8.55	0.00	NA
	03/20/02		none present	8.21	0.00	NA
	06/04/02		none present	9.10	0.00	NA
	09/23/02		none present	7.21	0.00	NA
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	NM	0.00	NA

TABLE 2-3
DEPTH TO GROUNDWATER/LNAPL MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Date	Top of Casing Elevation (Feet)	Depth to LNAPL (Feet)	Depth to Water (Feet)	LNAPL Thickness (Feet)	Water Level Elevation (Feet)
CEF-293-09	06/13/00	77.36	none present	9.93	0.00	67.43
	09/14/00		none present	7.01	0.00	70.35
	12/21/00		none present	8.96	0.00	68.40
	03/15/01		none present	9.29	0.00	68.07
	06/25/01		none present	8.37	0.00	68.99
	09/19/01		none present	5.81	0.00	71.55
	10/03/01		none present	7.29	0.00	70.07
	12/19/01		none present	8.70	0.00	68.66
	03/20/02		none present	8.13	0.00	69.23
	06/04/02		none present	9.21	0.00	68.15
	09/23/02		none present	7.20	0.00	70.16
	12/11/02		none present	8.19	0.00	69.17
	03/11/03		none present	6.09	0.00	71.27
	06/06/03		none present	7.85	0.00	69.51
	09/02/03		none present	7.29	0.00	70.07
	12/12/03		none present	9.62	0.00	67.74
	03/17/04		none present	9.84	0.00	67.52
CEF-293-10	06/13/00	NA	none present	9.46	0.00	NA
	09/14/00		none present	6.75	0.00	NA
	12/21/00		none present	8.52	0.00	NA
	03/15/01		none present	8.80	0.00	NA
	06/25/01		none present	8.21	0.00	NA
	09/19/01		none present	5.69	0.00	NA
	10/03/01		none present	NM	0.00	NA
	12/19/01		none present	8.28	0.00	NA
	03/20/02		none present	8.01	0.00	NA
	06/04/02		none present	8.77	0.00	NA
	09/23/02		none present	6.10	0.00	NA
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	NM	0.00	NA
CEF-293-11	06/13/00	NA	none present	9.62	0.00	NA
	09/14/00		none present	6.91	0.00	NA
	12/21/00		none present	8.70	0.00	NA
	03/15/01		none present	9.12	0.00	NA
	06/25/01		none present	8.46	0.00	NA
	09/19/01		none present	5.85	0.00	NA
	10/03/01		none present	NM	0.00	NA
	12/19/01		none present	8.48	0.00	NA
	03/20/02		none present	8.31	0.00	NA
	06/04/02		none present	8.97	0.00	NA
	09/23/02		none present	7.15	0.00	NA
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	NM	0.00	NA

TABLE 2-3
DEPTH TO GROUNDWATER/LNAPL MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Date	Top of Casing Elevation (Feet)	Depth to LNAPL (Feet)	Depth to Water (Feet)	LNAPL Thickness (Feet)	Water Level Elevation (Feet)
CEF-293-13	06/13/00	75.97	none present	9.05	0.00	66.92
	09/14/00		none present	6.31	0.00	69.66
	12/21/00		none present	8.11	0.00	67.86
	03/15/01		none present	8.63	0.00	67.34
	06/25/01		none present	8.06	0.00	67.91
	09/19/01		none present	7.40	0.00	68.57
	10/03/01		none present	6.67	0.00	69.30
	12/19/01		none present	7.89	0.00	68.08
	03/20/02		none present	7.69	0.00	68.28
	06/04/02		none present	8.32	0.00	67.65
	09/23/02		none present	6.56	0.00	69.41
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	5.47	0.00	70.50
CEF-293-14	06/13/00	NA	none present	9.34	0.00	NA
	09/14/00		none present	6.45	0.00	NA
	12/21/00		none present	8.40	0.00	NA
	03/15/01		none present	9.71	0.00	NA
	06/25/01		none present	8.10	0.00	NA
	09/19/01		none present	5.19	0.00	NA
	10/03/01		none present	NM	0.00	NA
	12/19/01		none present	8.14	0.00	NA
	03/20/02		none present	7.73	0.00	NA
	06/04/02		none present	8.56	0.00	NA
	09/23/02		none present	NM	0.00	NA
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	NM	0.00	NA
CEF-293-19	06/13/00	NA	none present	8.95	0.00	NA
	09/14/00		none present	6.99	0.00	NA
	12/21/00		none present	8.75	0.00	NA
	03/15/01		none present	9.11	0.00	NA
	06/25/01		none present	8.55	0.00	NA
	09/19/01		none present	5.93	0.00	NA
	10/03/01		none present	NM	0.00	NA
	12/19/01		none present	8.54	0.00	NA
	03/20/02		none present	8.26	0.00	NA
	06/04/02		none present	NM	0.00	NA
	09/23/02		none present	7.10	0.00	NA
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	NM	0.00	NA

TABLE 2-3
DEPTH TO GROUNDWATER/LNAPL MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Date	Top of Casing Elevation (Feet)	Depth to LNAPL (Feet)	Depth to Water (Feet)	LNAPL Thickness (Feet)	Water Level Elevation (Feet)
CEF-293-20	06/13/00	76.14	none present	9.40	0.00	66.74
	09/14/00		none present	6.85	0.00	69.29
	12/21/00		none present	8.53	0.00	67.61
	03/15/01		none present	8.81	0.00	67.33
	06/25/01		none present	8.25	0.00	67.89
	09/19/01		none present	5.70	0.00	70.44
	10/03/01		none present	6.98	0.00	69.16
	12/19/01		none present	8.35	0.00	67.79
	03/20/02		none present	7.97	0.00	68.17
	06/04/02		none present	8.76	0.00	67.38
	09/23/02		none present	6.80	0.00	69.34
	12/11/02		none present	7.82	0.00	68.32
	03/11/03		none present	5.92	0.00	70.22
CEF-293-21	06/13/00	NA	none present	9.51	0.00	NA
	09/14/00		none present	6.98	0.00	NA
	12/21/00		none present	8.62	0.00	NA
	03/15/01		none present	8.94	0.00	NA
	06/25/01		none present	8.37	0.00	NA
	09/19/01		none present	5.81	0.00	NA
	10/03/01		none present	NM	0.00	NA
	12/19/01		none present	8.46	0.00	NA
	03/20/02		none present	8.07	0.00	NA
	06/04/02		none present	8.85	0.00	NA
	09/23/02		none present	6.94	0.00	NA
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	NM	0.00	NA
CEF-293-22	06/13/00	75.95	none present	8.88	0.00	67.07
	09/14/00		none present	6.20	0.00	69.75
	12/21/00		none present	7.89	0.00	68.06
	03/15/01		none present	8.34	0.00	67.61
	06/25/01		none present	7.70	0.00	68.25
	09/19/01		none present	5.10	0.00	70.85
	10/03/01		none present	6.51	0.00	69.44
	12/19/01		none present	7.79	0.00	68.16
	03/20/02		none present	7.62	0.00	68.33
	06/04/02		none present	8.27	0.00	67.68
	09/23/02		none present	6.48	0.00	69.47
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	8.33	0.00	67.62
	06/07/03		none present	7.00	0.00	68.95
	09/02/03		none present	6.34	0.00	69.61
	12/12/03		none present	8.65	0.00	67.30
	03/17/04		none present	8.80	0.00	67.15

TABLE 2-3
DEPTH TO GROUNDWATER/LNAPL MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Date	Top of Casing Elevation (Feet)	Depth to LNAPL (Feet)	Depth to Water (Feet)	LNAPL Thickness (Feet)	Water Level Elevation (Feet)
VEW-01	06/13/00	76.32	8.60	10.89	2.29	67.03
	09/14/00		4.85	7.70	2.85	70.62
	10/12/00		6.26	7.39	1.13	69.72
	10/18/00		6.39	7.29	0.90	69.66
	10/24/00		6.55	7.56	1.01	69.47
	10/30/00		6.80	7.70	0.90	69.25
	11/07/00		6.95	7.20	0.25	69.30
	11/13/00		7.05	8.13	1.08	68.95
	11/20/00		7.10	8.30	1.20	68.86
	11/27/00		7.05	9.05	2.00	68.67
	12/06/01		7.25	10.15	2.90	68.20
	12/11/00		7.35	10.10	2.75	68.15
	12/18/00		7.32	10.80	3.48	67.96
	12/21/00		7.80	9.61	1.81	67.98
	01/03/01		7.45	11.85	4.40	67.55
	01/17/01		8.16	9.36	1.20	67.80
	01/29/01		7.68	11.11	3.43	67.61
	02/13/01		7.57	11.48	3.91	67.58
	02/19/01		7.61	11.45	3.84	67.56
	02/26/01		7.70	11.68	3.98	67.43
	03/06/01		7.55	11.10	3.55	67.71
	03/12/01		7.59	11.31	3.72	67.61
	03/15/01		8.34	10.50	2.16	67.33
	04/09/01		7.29	8.08	0.79	68.79
	04/16/01		7.31	8.29	0.98	68.72
	05/03/01		7.20	11.00	3.80	67.98
	05/08/01		7.35	11.10	3.75	67.85
	05/14/01		7.52	11.58	4.06	67.58
	05/21/01		7.59	11.50	3.91	67.56
	06/25/01		7.70	10.55	2.85	67.77
	07/03/01		6.55	10.67	4.12	68.53
	08/06/01		5.60	8.49	2.89	69.85
	09/19/01		5.21	6.15	0.94	70.83
	10/03/01		NM	NM	NM	NM
	12/07/01		4.90	5.70	0.80	71.18
	12/12/01		7.80	10.70	2.90	67.65
	12/19/01		7.48	9.08	1.60	68.36
	03/20/02		7.36	9.21	1.85	68.41
	06/04/02		8.15	9.20	1.05	67.86
	09/23/02		6.21	6.81	0.60	69.93
	12/11/02		7.10	8.05	0.95	68.94
	03/11/03		5.08	5.80	0.72	71.02
	06/07/03		6.90	7.40	0.50	69.27
	09/02/03		4.40	4.90	0.50	71.77
	12/12/03		none present	NM	0.00	NM
	03/17/04		none present	NM	0.00	NM

TABLE 2-3
DEPTH TO GROUNDWATER/LNAPL MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Date	Top of Casing Elevation (Feet)	Depth to LNAPL (Feet)	Depth to Water (Feet)	LNAPL Thickness (Feet)	Water Level Elevation (Feet)
VEW-02	06/13/00	75.86	7.50	13.02	5.52	62.84
	09/14/00		5.75	5.76	0.01	70.10
	12/21/00		7.70	7.73	0.03	68.13
	03/15/01		8.34	8.36	0.02	67.50
	06/25/01		7.92	7.96	0.04	67.90
	09/19/01		none present	4.98	0.00	70.88
	10/03/01		none present	6.20	0.00	69.66
	12/19/01		none present	7.40	0.00	68.46
	03/20/02		none present	7.42	0.00	68.44
	06/04/02		none present	7.89	0.00	67.97
	09/23/02		none present	6.01	0.00	69.85
	12/11/02		none present	6.69	0.00	69.17
	03/11/03		none present	4.71	0.00	71.15
	06/07/03		none present	6.50	0.00	69.36
	09/02/03		none present	5.96	0.00	69.90
	12/12/03		none present	11.04	0.00	64.82
	03/17/04		none present	8.40	0.00	67.46
VEW-03	06/13/00	75.28	none present	8.05	0.00	67.23
	09/14/00		none present	5.25	0.00	70.03
	12/21/00		none present	7.21	0.00	68.07
	03/15/01		none present	7.75	0.00	67.53
	06/25/01		none present	7.06	0.00	68.22
	09/19/01		none present	4.15	0.00	71.13
	10/03/01		none present	5.55	0.00	69.73
	12/19/01		none present	6.93	0.00	68.35
	03/20/02		none present	6.85	0.00	68.43
	06/04/02		none present	7.38	0.00	67.90
	09/23/02		none present	5.60	0.00	69.68
	12/11/02		none present	6.23	0.00	69.05
	03/11/03		none present	4.07	0.00	71.21
	06/06/03		none present	6.10	0.00	69.18
	09/02/03		none present	5.35	0.00	69.93
	12/12/03		none present	7.80	0.00	67.48
	03/17/04		none present	8.02	0.00	67.26
VEW-04	06/13/00	75.54	none present	8.38	0.00	67.16
	09/14/00		none present	5.68	0.00	69.86
	12/21/00		none present	7.60	0.00	67.94
	03/15/01		none present	8.07	0.00	67.47
	06/25/01		none present	7.70	0.00	67.84
	09/19/01		none present	4.67	0.00	70.87
	10/03/01		none present	6.04	0.00	69.50
	12/19/01		none present	7.31	0.00	68.23
	03/20/02		none present	7.23	0.00	68.31
	06/04/02		none present	7.78	0.00	67.76
	09/23/02		none present	6.05	0.00	69.49
	12/11/02		none present	6.78	0.00	68.76
	03/11/03		none present	4.66	0.00	70.88
	06/07/03		none present	6.50	0.00	69.04
	09/02/03		none present	5.80	0.00	69.74
	12/12/03		none present	8.12	0.00	67.42
	03/17/04		none present	8.30	0.00	67.24

TABLE 2-3
DEPTH TO GROUNDWATER/LNAPL MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Date	Top of Casing Elevation (Feet)	Depth to LNAPL (Feet)	Depth to Water (Feet)	LNAPL Thickness (Feet)	Water Level Elevation (Feet)
VEW-05	06/13/00	74.63	none present	7.53	0.00	67.10
	09/14/00		none present	4.85	0.00	69.78
	12/21/00		none present	6.75	0.00	67.88
	03/15/01		none present	7.18	0.00	67.45
	06/25/01		none present	6.56	0.00	68.07
	09/19/01		none present	3.83	0.00	70.80
	10/03/01		none present	5.16	0.00	69.47
	12/19/01		none present	7.42	0.00	67.21
	03/20/02		none present	6.38	0.00	68.25
	06/04/02		none present	6.91	0.00	67.72
	09/23/02		none present	5.14	0.00	69.49
	12/11/02		none present	5.98	0.00	68.65
	03/11/03		none present	3.80	0.00	70.83
	06/06/06		none present	6.75	0.00	67.88
	09/02/03		none present	4.95	0.00	69.68
	12/12/03		none present	7.40	0.00	67.23
	03/17/04		none present	7.50	0.00	67.13
VEW-06	06/13/00	74.31	none present	7.26	0.00	67.05
	09/14/00		none present	4.60	0.00	69.71
	12/21/00		none present	6.40	0.00	67.91
	03/15/01		none present	6.94	0.00	67.37
	06/25/01		none present	6.45	0.00	67.86
	09/19/01		none present	3.72	0.00	70.59
	10/03/01		none present	5.03	0.00	69.28
	12/19/01		none present	6.16	0.00	68.15
	03/20/02		none present	6.13	0.00	68.18
	06/04/02		none present	6.63	0.00	67.68
	09/23/02		none present	4.88	0.00	69.43
	12/11/02		none present	5.75	0.00	68.56
	03/11/03		none present	3.73	0.00	70.58

TABLE 2-3
DEPTH TO GROUNDWATER/LNAPL MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Date	Top of Casing Elevation (Feet)	Depth to LNAPL (Feet)	Depth to Water (Feet)	LNAPL Thickness (Feet)	Water Level Elevation (Feet)
VEW-07	06/13/00	76.44	none present	9.06	0.00	67.38
	09/14/00		none present	6.15	0.00	70.29
	12/21/00		none present	8.15	0.00	68.29
	03/15/01		none present	8.65	0.00	67.79
	06/25/01		none present	8.36	0.00	68.08
	09/19/01		none present	5.15	0.00	71.29
	10/03/01		none present	6.50	0.00	69.94
	12/19/01		none present	7.80	0.00	68.64
	03/20/02		none present	7.71	0.00	68.73
	06/04/02		none present	8.36	0.00	68.08
	09/23/02		none present	6.29	0.00	70.15
	12/11/02		none present	7.16	0.00	69.28
	03/11/03		none present	5.01	0.00	71.43
	06/07/03		none present	6.97	0.00	69.47
	09/04/03		none present	6.45	0.00	69.99
	12/12/03		none present	8.90	0.00	67.54
	03/17/04		none present	9.00	0.00	67.44
VEW-08	06/13/00	76.43	none present	9.06	0.00	67.37
	09/14/00		none present	6.16	0.00	70.27
	12/21/00		none present	8.11	0.00	68.32
	03/15/01		none present	8.57	0.00	67.86
	06/25/01		none present	8.33	0.00	68.10
	09/19/01		none present	5.35	0.00	71.08
	10/03/01		none present	6.41	0.00	70.02
	12/19/01		none present	7.76	0.00	68.67
	03/20/02		none present	7.61	0.00	68.82
	06/04/02		none present	8.30	0.00	68.13
	09/23/02		none present	6.37	0.00	70.06
	12/11/02		none present	7.23	0.00	69.20
	03/11/03		none present	5.13	0.00	71.30

LNAPL = Light Non-Aqueous Phase Liquid
NA = Not Available
NM = Not Measured
Elevation is referenced to National Geodetic Vertical Datum 1929 (NGVD 1929)

Depth to LNAPL is measured from top of casing

Depth to water is measured from top of casing

TABLE 3-1
Pre-Treatment Vapor
Analytical Results
NAS Cecil Field,
Jacksonvile, Florida

Compound	2/28/2000	3/7/2000	3/16/2000	3/23/2000	5/30/2000	6/19/2000	7/24/2000	8/15/2000	09/18/00	10/18/00	11/13/00	12/11/2000	1/17/2001	2/13/2001	3/12/2001	4/16/2001	5/3/2001	5/29/2001	6/15/2001	7/17/2001	8/14/2001	9/27/2001	10/15/2001	11/20/2001	12/12/2001	1/30/2002	2/19/2002	3/11/2002	04/08/02	05/06/02	06/10/02	07/15/02	08/21/02	09/09/02	10/21/2002	11/22/2002	12/16/2002	1/21/2003	2/26/2003	3/20/2003	4/17/2003	5/21/2003	7/3/2003
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.85	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	2130	3580	824	5060	4690	8640	7750	2840	1610	ND	1120	878	550	446	932	317	457	460	170	280	140	ND	ND	40	60	ND	50	420	ND	ND	ND	ND	60	ND	ND	ND	ND	ND	ND	ND	15.0	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	62.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	898	1780	422	2870	3380	5940	6330	2650	1600	ND	1520	1010	957	662	1320	NA	898	860	380	530	60	ND	100	210	300	100	80	440	70	ND	ND	ND	270	180	ND	ND	ND	11	ND	ND	44.0	ND	ND
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND
4-Ethyltoluene	605	1080	224	1470	1510	3030	2580	782	336	ND	NS	654	152	144	165	70.3	79.6	430	170	240	160	ND	ND	50	70	ND	50	340	ND	ND	ND	ND	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND
Benzene	112	1350	210	979	83.3	138	161	33.5	9.6	12	30	ND	12	27	19	12	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.22	2.85	ND	14.9
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.8	ND
Chloroform	ND	ND	19	ND	72.9	21	ND	ND	ND	1.2	ND	ND	ND	ND	ND	3.2	0.77	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.44	ND	ND	6.39	ND	7.0	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	1.88	ND	5.21
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND	ND	3.1	3.6	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.50	3.00	ND	ND	3.00	ND	ND
Dichlorotetrafluroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1540	3060	585	4510	1740	3320	3360	811	260	107	392	165	134	213	198	91.9	98.8	190	90	120	ND	ND	ND	ND	ND	ND	ND	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.21	ND	ND
Freon 113	229	ND	2350	305	263	389	1860	165	47	ND	ND	68	ND	93.6	27	20	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Freon 114	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	840	380	410	ND	ND	80	140	150	ND	ND	120	60	ND	ND	ND	ND	99	ND	81	ND	9.68	ND	4.66	ND	ND	ND
m,p-Xylene	2840	6460	1200	9410	4640	7540	7460	1820	141	275	811	397	451	681	793	405	376	650	290	390	130	ND	120	90	80	ND	ND	250	ND	ND	ND	ND	90	ND	ND	ND	5.74	4.86	ND	125	5.74	ND	ND
m-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Tert Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	110	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	87.3	114	163	46.7	105	ND	11	ND	ND	ND	ND	9.3	2.3	0.41	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
o-Xylene	397	1820	375	2940	2270	3620	3760	1340	91.9	168	759	572	432	370	581	200	344	330	140	170	60	ND	ND	50	60	ND	ND	120	ND	ND	ND	ND	80	ND	ND	ND	16.80	15	ND	ND	10.6	110	ND
p-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	230	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	90.7	1410	1060	2770	452	500	715	112	23	17	54.6	13	39.1	79.4	63.6	32	33	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.2	ND	ND	ND	ND	2.30	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	49.3	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	1.3	0.89	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	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	NA	NA	NA	NA	105.0	322.0	156	101	ND	72.4	ND	ND	10.2
1,4-Dioxane	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	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Propylene	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	NA	NA	NA	NA	87.5	2.1	ND	1.58	ND	ND	12.1	ND	66.5
Bromomethane	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	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Butadiene	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	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	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	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylisobutyl ketone	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	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptane	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	NA	NA	NA	NA	ND	156	39.20	17.10	ND	44.6	ND	ND	ND
Tetrahydrofuran	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	NA	NA	NA	NA	ND	ND	ND	ND	ND	180	ND	1380	ND
Vinyl Acetate	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	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Acetate	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	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isoprpyl Alcohol	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	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	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	NA	NA	NA	NA	ND	19.8	ND	23.2	ND	17.9	ND	ND	62.8
2-Butanone	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	NA	NA	NA	NA	ND	ND	33.6	ND	ND	7.5	31.2	ND	48.6
Xylenes (total)	3230	8280	1570	12300	6940	11200	11200	3170	233	443	1570	971	880	1050	1370	607	720	980	430	ND	ND	ND	ND	140	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.54	19.86	ND	125	16.34	110	ND
Total Volatile Organics (ug/m³)	8842	20540	7399	30428	19264.2	33247.5	34081	10553.5	4129.5	585.3	4686.6	3757	2727.1	2725.3	4104	1157.91	2327.86	3830	1620	2140	550	0	530	580	720	100	180	1860	130	0	0	0	570	279	192.5	590.1	276.38	189.86	0	517.07	130.88	1490	213

Note:
1. Total Volatile Organics = Sum of all detected volatile organic compounds
2. In computing Total Volatile Organics not detected compounds were assumed to be zero.

3. All from Feburary 2000 till May 2002, all the samples were analyzed by EPA Method 18, TO-14. October 2002 samples were anaylzed by T0-15.
4. All concentrations are in micrograms per cubic meter. (ug/m³)
5. ND= Not Detected, please see Appendix D for detection limits
6. NA= Not analyzed for listed parameter
7. No data from April 2002 till September 2002

TABLE 3-2
POST-TREATMENT VAPOR ANALYTICAL RESULTS

DAY TANK 1 SVE/AIR SPARGE SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Compound	2/28/2000	3/7/2000	3/16/2000	3/23/2000
1,1,1-Trichloroethane	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	1.5	0.74	0.83	ND
1,2-Dibromoethane	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
4-Ethyltoluene	ND	ND	ND	ND
Alpha-Chlorotoluene	ND	ND	ND	ND
Benzene	0.32	ND	0.86	ND
Bromoform	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Chloroform	ND	ND	0.68	ND
Chloromethane	ND	0.63	0.70	0.98
cis-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Dichlorodifluoromethane	ND	0.78	1.5	1.6
Dichlorotetrafluroethane	ND	ND	ND	ND
Ethylbenzene	3.8	0.74	0.74	0.65
Freon 113	2.0	1.8	73	7.6
Freon 114	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Hexane	ND	ND	ND	ND
m,p-Xylene	5.2	1.1	1.6	1.1
m-Dichlorobenzene	6.6	5.6	5.0	3.9
Methyl Tert Butyl Ether	ND	ND	ND	ND
Methylene Chloride	1.4	ND	2.9	1.2
o-Dichlorobenzene	ND	ND	ND	ND
o-Xylene	1.7	0.56	0.61	0.52
p-Dichlorobenzene	0.66	ND	ND	ND
Styrene	6.8	1.3	1.2	2
Tetrachloroethene	0.94	4.3	3.4	ND
Toluene	13.0	1	34	1.4
trans-1,2-Dichloroethene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
Trichlorotrifluoroethane	ND	ND	ND	ND
Vinyl Chloride	ND	0.56	0.25	ND
Xylenes (total)	6.9	1.6	2.2	1.6
Total Volatile Organics	43.92	19.11	127.27	20.95

Note:
1. Total Volatile Organics = Sum of all detected volatile organic compounds
2. In computing Total Volatile Organics not detected compounds were assumed to be zero.
3. All samples were analyzed by EPA Method 18, TO-14.
4. All concentrations are in micrograms per cubic meter.
5. ND= Not Detected, please see Appendix D for detection limits

TABLE 3-3
POUNDS PER DAY LOADING/EMISSIONS RATES
DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Location	Sample Date	Flow Rate (SCFM)	Total VOC Concentration (mg/m^3)	Loading Rate (lbs/day)
Pre-Treatment	2/28/2000	44	8.842	0.035
	3/7/2000	56	20.54	0.103
	3/16/2000	61	7.399	0.041
	3/23/2000	46	19.26	0.080
	5/30/2000	44	30.42	0.120
	6/19/2000	45	33.25	0.135
	7/24/2000	50	34.08	0.153
	8/15/2000	49	10.55	0.046
	9/18/2000	51	4.13	0.019
	10/18/2000	48	0.79	0.003
	11/13/2000	48	4.69	0.020
	12/11/2000	48	3.78	0.016
	1/17/2001	45	2.27	0.009
	2/13/2001	49	2.730	0.012
	3/12/2001	70	4.104	0.026
	4/16/2001	63	1.764	0.010
	5/3/2001	65	3.047	0.018
	5/29/2001	70	4.810	0.030
	6/15/2001	70	2.050	0.013
	7/17/2001	70	2.140	0.013
	8/14/2001	60	0.550	0.003
	9/27/2001	75	0.000	0.000
	10/15/2001	70	0.530	0.003
	11/20/2001	70	0.580	0.004
	12/12/2001	70	0.720	0.005
	1/30/2002	70	0.100	0.001
	2/19/2002	70	0.180	0.001
	3/11/2002	70	1.860	0.012
	4/8/2002	70	0.130	0.001
	5/6/2002	77	0.000	0.000
	6/10/2002	77	0.000	0.000
	7/15/2002	75	0.000	0.000
	8/21/2002	70	0.570	0.004
	9/9/2002	65	0.279	0.002
	10/21/2002	39	0.193	0.001
	11/22/2002	125	0.590	0.007
	12/16/2002	46	0.276	0.001
	1/21/2003	NM	0.189	--
	2/24/2003	NM	0.000	--
	3/20/2003	120	0.517	0.006
	4/17/2003	114	0.131	0.001
	5/21/2003	NM	1.490	--
	7/3/2003	118	0.213	0.002
Post-Treatment	2/28/2000	44	0.044	0.00017
	3/7/2000	56	0.019	0.00010
	3/16/2000	61	0.127	0.00070
	3/23/2000	46	0.030	0.00012

NOTE: Sample date for 10/21/02-7/3/03 is the date of Total VOC sample, Flow Rate sample data is 10/17/02, 11/14/02, 12/19/02, 3/13/03, 4/10/03, and 6/27/03. June air sampling event was not performed, therefore July 3, 2002 data is included.

TABLE 3-4
Groundwater Analytical Results
NAS Cecil Field, Jacksonville, Florida

Sample I.D.	Date	Benzene	Ethylbenzene	Toluene	Xylenes (total)	Acenapthylene	Acenapthene	Fluoranthene	Pyrene	Chrysene	Benzo (a) anthracene	Benzo(b) Fluoranthene	Benzo(k) Fluoranthene	Benzo(a) Pyrene	Benzo(g,h,i) Perylene	Indeno (1,2,3-cd) Pyrene	Naphthalene by Method 8270C-SIM	Napthalene by Method 8260	1-Methylnapthalene	2-Methylnapthalene	Phenanthrene	Fluorene	Isopropylbenzene	Chloroform	n-Propylbenzene	sec-Butylbenzene	n-Butylbenzene	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene	p-Isopropyltoluene
CEF-293-04	01/25/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/13/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/25/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	09/19/01	0.18	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	--	--	--	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/19/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/20/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/04/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	09/23/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/09/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
CEF 293-09	01/25/00	43.1	602	826	2150	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	378	--	128	182	ND	--	--	--	--	--	--	--	--	--
	06/13/00	ND	1.4	ND	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/25/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	09/19/01	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	--	--	--	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/19/01	ND	ND	ND	0.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/20/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/05/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	09/23/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/09/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/06/03	3.8	4.3	ND	20.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9	--	ND	ND	ND	ND	5.8	ND	--	--	ND	ND	ND	--
	09/02/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.36	--	0.20	ND	ND	ND	ND	ND	--	--	ND	ND	ND	--
	12/12/03	2.9	5.8	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	47.5	98	19.4	18.4	ND	ND	11.8	ND	12.5	3.3	1.9	2.3	ND	--
	03/17/04	2.3	5.7	ND	ND	ND	0.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	136	144	47.1	50.4	ND	ND	7.9	ND	13.1	4.1	2.4	ND	ND	1.2
CEF 293-13	01/25/00	57.6	43	2.3	70.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	124	--	54.2	68	ND	--	--	--	--	--	--	--	--	--
	06/13/00	128	124	3.1	193	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	157	--	64.2	82.2	ND	--	--	--	--	--	--	--	--	--
	09/14/00	112	106	2.2	161	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	163	--	61.1	75	ND	--	--	--	--	--	--	--	--	--
	12/21/00	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40.7	--	29.6	39.2	ND	--	--	--	--	--	--	--	--	--
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.6	--	15.5	20.6	ND	--	--	--	--	--	--	--	--	--
	06/25/01	0.24	1.3	ND	0.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	--	7	11	0.22	--	--	--	--	--	--	--	--	--
	09/19/01	ND	0.13	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	--	--	--	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	0.86	1.9	ND	--	--	--	--	--	--	--	--	--
	12/19/01	ND	0.53	ND	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.38	--	0.97	1.8	0.3	--	--	--	--	--	--	--	--	--
	03/20/02	ND	0.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	0.61	ND	--	--	--	--	--	--	--	--	--
	06/04/02	ND	0.44	ND	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	0.63	0.26	--	--	--	--	--	--	--	--	--
	09/23/02	ND	0.4	ND	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	0.34	ND	0.26	--	--	--	--	--	--	--	--	--
	12/09/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
CEF 293-20	01/25/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/13/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/25/01	0.67	0.25	0.37	0.46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	54	--	19	21	0.34	--	--	--	--	--	--	--	--	--
	09/19/01	0.72	0.35	ND	1.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	--	--	--	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/19/01	0.68	ND	0.52	0.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/20/02	0.45	ND	ND	0.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/04/02	0.77	0.39	0.47	0.48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	--	ND	0.24	ND	--	--	--	--	--	--	--	--	--
	09/23/02	0.55	0.3	0.24	0.34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.61	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/10/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--

TABLE 3-4
Groundwater Analytical Results
NAS Cecil Field, Jacksonville, Florida

Sample I.D.	Date	Benzene	Ethylbenzene	Toluene	Xylenes (total)	Acenapthylene	Acenapthene	Fluoranthene	Pyrene	Chrysene	Benzo (a) anthracene	Benzo(b) Fluoranthene	Benzo(k) Fluoranthene	Benzo(a) Pyrene	Benzo(g,h,i) Perylene	Indeno (1,2,3-cd) Pyrene	Naphthalene by Method 8270C-SIM	Napthalene by Method 8260	1-Methylnapthalene	2-Methylnapthalene	Phenanthrene	Fluorene	Isopropylbenzene	Chloroform	n-Propylbenzene	sec-Butylbenzene	n-Butylbenzene	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene	p-Isopropyltoluene
CEF 293-22	01/25/00	24.2	19.4	0.88	47.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	142	--	59.6	67	ND	--	--	--	--	--	--	--	--	--
	06/13/00	43.2	60.6	5.5	218	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	188	--	80.3	95.4	ND	--	--	--	--	--	--	--	--	--
	09/14/00	6.4	8.4	ND	20.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	38.7	--	22	25.1	ND	--	--	--	--	--	--	--	--	--
	12/21/00	19.7	9.7	<1	11.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	95	--	31.6	42.4	ND	--	--	--	--	--	--	--	--	--
	03/15/01	32.6	28.2	0.97	72.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	148	--	49.7	71.3	ND	--	--	--	--	--	--	--	--	--
	06/25/01	25	12	ND	18.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	45	--	16	22	ND	--	--	--	--	--	--	--	--	--
	09/19/01	1.9	0.44	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	--	--	--	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.9	--	4.8	6.8	ND	--	--	--	--	--	--	--	--	--
	12/19/01	8.7	1.2	ND	1.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	34.2	--	13.4	17	0.57	--	--	--	--	--	--	--	--	--
	03/20/02	2.2	0.43	ND	0.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.8	--	14	17.8	0.57	--	--	--	--	--	--	--	--	--
	06/04/02	1	0.92	ND	0.6	0.28	0.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.5	--	21.6	26.2	2.3	--	--	--	--	--	--	--	--	--
	09/23/02	0.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.7	--	5.9	8.5	0.52	--	--	--	--	--	--	--	--	--
	12/10/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	2.66	1.79	ND	--	--	--	--	--	--	--	--	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	2.4	ND	--	--	--	--	--	--	--	--	--
	06/09/03	ND	ND	ND	ND	ND	ND	ND	0.11	ND	ND	ND	ND	ND	ND	ND	0.64	--	4.97	3.76	0.21	0.13	ND	ND	--	--	ND	ND	ND	--
	09/02/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	1.34	0.96	0.12	ND	ND	ND	--	--	ND	ND	ND	--
	12/12/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.07	0.88	0.23	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/17/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.35	1.20	0.16	ND	ND	ND	ND	ND	ND	ND	ND	ND
VEW-01	01/25/00	18.5	257	59.4	726	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	350	--	220	307	ND	--	--	--	--	--	--	--	--	--
	06/13/00	FREE PRODUCT																												
	09/14/00	FREE PRODUCT																												
	12/21/00	FREE PRODUCT																												
	03/15/01	FREE PRODUCT																												
	06/25/01	FREE PRODUCT																												
	09/19/01	FREE PRODUCT																												
	10/03/01	FREE PRODUCT																												
	12/19/01	FREE PRODUCT																												
	03/20/02	FREE PRODUCT																												
	06/04/02	FREE PRODUCT																												
	09/23/02	FREE PRODUCT																												
	12/10/02	FREE PRODUCT																												
	03/11/03	FREE PRODUCT																												
	06/07/03	FREE PRODUCT																												
	09/04/03	FREE PRODUCT																												
	12/12/03	NOT SAMPLED																												
	03/17/04	NOT SAMPLED																												
VEW-02	01/25/00	91.6	149	29.2	573	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	283		118	139	ND	--	--	--	--	--	--	--	--	--
	06/13/00	FREE PRODUCT																				--	--	--	--	--	--	--	--	--
	09/14/00	ND	ND	ND	156	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/21/00	FREE PRODUCT																				--	--	--	--	--	--	--	--	--
	03/15/01	FREE PRODUCT																				--	--	--	--	--	--	--	--	--
	06/25/01	FREE PRODUCT																				--	--	--	--	--	--	--	--	--
	09/19/01	ND	14	ND	7.1	NA	ND	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	--	NA	NA	NA	--	--	--	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	2.1	ND	5.9	0.28	0.69	ND	0.76	0.49	0.51	1.8	ND	ND	--	4.6	2.2	2.1	--	--	--	--	--	--	--	--	--
	12/19/01	ND	22	ND	12.6	8.9	2.2	11.6	18.2	1.3	1.2	0.93	0.86	ND	0.34	0.38	ND	--	19.3	18.7	7.5	--	--	--	--	--	--	--	--	--
	03/20/02	ND	ND	ND	0.85	ND	0.39	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	0.84	0.96	ND	--	--	--	--	--	--	--	--	--
	06/05/02	ND	0.45	ND	0.62	0.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	0.42	--	--	--	--	--	--	--	--	--
	09/23/02	ND	ND	ND	0.21	0.59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	0.24	0.3	--	--	--	--	--	--	--	--	--
	12/10/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/07/03	ND	ND	ND	ND	ND	ND	ND	0.16	ND	ND	ND	ND	ND	ND	ND	ND	--	1.06	0.42	ND	ND	ND	ND	--	--	3.2	2.3	6.00	--
	09/04/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	1.4	0.54	ND	ND	ND	ND	--	--	ND	ND	3.90	--
	12/12/03	ND	ND	ND	3.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	0.18	ND	ND	ND	3.2	ND	ND	ND	ND	2.2	1.60	--
	03/17/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.58	ND	1.27	1.09	ND	ND	ND	ND	ND	ND	ND	2.0	ND	ND

TABLE 3-4
Groundwater Analytical Results
NAS Cecil Field, Jacksonville, Florida

Sample I.D.	Date	Benzene	Ethylbenzene	Toluene	Xylenes (total)	Acenapthylene	Acenapthene	Fluoranthene	Pyrene	Chrysene	Benzo (a) anthracene	Benzo(b) Fluoranthene	Benzo(k) Fluoranthene	Benzo(a) Pyrene	Benzo(g,h,i) Perylene	Indeno (1,2,3-cd) Pyrene	Naphthalene by Method 8270C-SIM	Napthalene by Method 8260	1-Methylnapthalene	2-Methylnapthalene	Phenanthrene	Fluorene	Isopropylbenzene	Chloroform	n-Propylbenzene	sec-Butylbenzene	n-Butylbenzene	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene	p-Isopropyltoluene
VEW-03	01/25/00	24.4	85.6	11.5	128	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	220	--	78	102	ND	--	--	--	--	--	--	--	--	--
	06/13/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/25/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	09/19/01	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	--	--	--	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/19/01	ND	ND	ND	0.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/20/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/04/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	0.22	ND	--	--	--	--	--	--	--	--	--
	09/23/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/09/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/11/03	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/06/03	ND	ND	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	1.8	--	--	ND	ND	ND	--
	09/02/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	--
	12/12/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2	ND	ND	ND	ND	ND	ND	--
	03/17/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.87	ND	2.27	1.46	ND	ND	3.8	ND	4.2	ND	ND	ND	ND	ND
VEW-04	01/25/00	81	138	7.8	288	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	232	--	88.7	108	ND	--	--	--	--	--	--	--	--	--
	06/13/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/25/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	09/19/01	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	--	--	--	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/19/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/20/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/04/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	09/23/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/10/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/07/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	--
	09/02/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	--
	12/12/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/17/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VEW-05	01/25/00	118	72.5	11.3	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	194	--	59.8	86.1	ND	--	--	--	--	--	--	--	--	--
	06/13/00	33.2	ND	ND	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/25/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	09/19/01	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	--	--	--	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/19/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/20/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/04/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	09/23/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/09/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/06/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	--
	09/02/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	--
	12/12/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/17/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 3-4
Groundwater Analytical Results
NAS Cecil Field, Jacksonville, Florida

Sample I.D.	Date	Benzene	Ethylbenzene	Toluene	Xylenes (total)	Acenapthylene	Acenapthene	Fluoranthene	Pyrene	Chrysene	Benzo (a) anthracene	Benzo(b) Fluoranthene	Benzo(k) Fluoranthene	Benzo(a) Pyrene	Benzo(g,h,i) Perylene	Indeno (1,2,3-cd) Pyrene	Naphthalene by Method 8270C-SIM	Napthalene by Method 8260	1-Methylnapthalene	2-Methylnapthalene	Phenanthrene	Fluorene	Isopropylbenzene	Chloroform	n-Propylbenzene	sec-Butylbenzene	n-Butylbenzene	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene	p-Isopropyltoluene
VEW-06	01/25/00	31.1	97.9	12.7	283	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	189	--	64.6	77.2	ND	--	--	--	--	--	--	--	--	--
	06/13/00	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/25/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	09/19/01	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	--	--	--	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/19/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/20/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/04/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	09/23/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/09/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
VEW-07	01/25/00	48	213	97.8	459	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	481	--	172	219	ND	--	--	--	--	--	--	--	--	--
	06/13/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/25/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	09/19/01	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	--	--	--	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/19/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/20/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/05/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	09/23/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/09/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	06/07/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	1.6	--	--	ND	ND	ND	--
	09/02/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	0.13	ND	ND	ND	ND	ND	--	--	ND	ND	ND	--
	12/12/03	ND	ND	ND	3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2	ND	ND	ND	ND	ND	ND	--
	03/17/04	2.2	1.2	ND	7.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.09	ND	0.22	0.2	ND	ND	1	ND	1	ND	ND	5.7	ND	ND
VEW-08	01/25/00	53.4	242	4.5	451	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	393	--	124	162	ND	--	--	--	--	--	--	--	--	--
	06/13/00	4	41.8	1.4	37.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	86.6	--	44.9	39.6	ND	--	--	--	--	--	--	--	--	--
	09/14/00	ND	4.8	ND	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.5	--	6.5	5.2	ND	--	--	--	--	--	--	--	--	--
	12/21/00	ND	10.6	<1	9.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.7	--	16	17.1	ND	--	--	--	--	--	--	--	--	--
	03/15/01	ND	6.4	ND	5.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.7	--	3.7	3.8	ND	--	--	--	--	--	--	--	--	--
	06/25/01	ND	1.5	ND	0.78	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.36	--	0.46	0.96	ND	--	--	--	--	--	--	--	--	--
	09/19/01	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	--	--	--	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.16	--	ND	0.5	ND	--	--	--	--	--	--	--	--	--
	12/19/01	ND	1.9	ND	1.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	0.84	0.67	ND	--	--	--	--	--	--	--	--	--
	03/20/02	ND	0.89	ND	0.88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	--	0.95	1.2	ND	--	--	--	--	--	--	--	--	--
	06/05/02	ND	1.7	ND	2.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	09/23/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/10/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--	--	--	--	--
Cleanup Goal - RAP		1	NA	NA	50	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
GCTL		1	30	40	20	210	20	280	210	4.8	0.2	0.2	0.5	0.2	210	0.2	20	20	20	20	210	280	--	5.7	NA	NA	NA	10	10	NA
NADSC		100	300	400	200	2100	200	2800	2100	480	20	20	50	20	2100	20	200	200	200	200	2100	2800	--	570	NA	NA	NA	100	100	NA

Notes:
1. All concentrations are in µg/L.
2. No data for June, September, and October 2002 has been received.
3. ND= Not Detected, please see Appendix C for detection limits
4. NS = Not Sampled
5. NA = Not Analyzed

= Greater than GCTL
= Greater than NADSC

TABLE 3-5
GROUNDWATER FIELD ANALYTICAL RESULTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

	Date	ph (s. u.)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature (^oC)
CEF-293-4	1/25/2000	6.69	0.218	NM	21.3
	6/13/2000	6.15	0.259	-0.50	26.3
	9/14/2000	6.30	0.246	1.94	27.4
	12/21/2000	8.44	0.263	2.90	20.5
	3/15/2001	6.30	0.247	1.22	20.6
	6/25/2001	6.22	0.259	NM	25.2
	9/19/2001	6.06	0.416	0.57	26.3
	12/19/2001	7.22	0.232	3.75	22.7
	3/20/2002	6.19	0.244	3.19	21.2
	6/4/2002	6.23	0.241	3.09	26.4
	9/24/2002	6.23	0.212	1.44	27.4
	12/9/2002	5.51	NM	2.80	24.6
	3/11/2003	4.74	0.225	1.11	18.43
CEF-293-9	1/25/2000	5.99	0.088	NM	21.4
	6/13/2000	5.55	0.068	-0.36	24.6
	9/14/2000	6.03	0.830	2.82	26.0
	12/21/2000	7.71	0.075	5.50	22.4
	3/15/2001	6.29	0.066	7.80	20.7
	6/25/2001	6.31	0.094	NM	23.3
	9/19/2001	5.94	0.244	4.93	25.0
	12/19/2001	7.19	0.079	5.88	23.2
	3/20/2002	7.03	0.119	6.33	21.8
	6/4/2002	7.00	0.235	3.90	24.2
	9/23/2002	6.70	0.221	5.99	26.1
	12/9/2002	5.48	NM	6.60	24.0
	3/11/2003	5.90	0.29	4.29	20.9
	6/6/2003	6.00	0.472	0.00	23.26
	9/2/2003	5.84	0.730	0.93	26.10
	12/12/2003	5.86	0.998	0.01	23.22
	3/17/2004	5.40	0.279	1.00	21.1
CEF-293-13	1/25/2000	5.64	0.039	NM	21.4
	6/13/2000	4.99	0.068	-0.33	24.4
	9/14/2000	4.87	0.054	2.14	26.1
	12/21/2000	7.41	0.075	1.42	21.5
	3/15/2001	5.50	0.063	2.14	19.8
	6/25/2001	5.01	0.069	NM	24.4
	9/19/2001	5.43	0.157	2.34	26.9
	12/19/2001	6.22	0.068	2.22	23.0
	3/20/2002	5.44	0.099	1.32	21.1
	6/4/2002	5.79	0.115	1.54	26.1
	9/23/2002	5.18	0.112	0.55	28.2
	12/9/2002	4.98	NM	0.50	23.9
	3/11/2003	5.30	0.105	1.7	20.0

TABLE 3-5
GROUNDWATER FIELD ANALYTICAL RESULTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

	Date	ph (s. u.)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature (^oC)
CEF-293-20	1/25/2000	5.96	0.062	NM	20.8
	6/13/2000	5.04	0.083	-0.16	27.0
	9/14/2000	5.19	0.100	1.38	29.3
	12/21/2000	7.65	0.101	2.24	24.6
	3/15/2001	5.49	0.105	2.78	23.4
	6/25/2001	4.83	0.103	NM	26.3
	9/19/2001	5.34	0.149	2.00	29.0
	12/19/2001	7.17	0.113	2.34	24.8
	3/20/2002	5.99	0.234	1.90	23.6
	6/4/2002	5.84	0.198	1.49	27.7
	9/23/2002	5.99	0.317	0.17	30.2
	12/10/2002	3.90	NM	0.55	24.2
	3/11/2003	6.09	0.098	1.22	24.0
CEF-293-22	1/25/2000	6.44	0.126	NM	23.0
	6/13/2000	5.71	0.180	-0.47	27.7
	9/14/2000	5.74	0.812	1.83	28.0
	12/21/2000	8.14	0.573	2.80	23.1
	3/15/2001	5.86	0.230	2.27	22.0
	6/25/2001	5.55	0.365	NM	25.2
	9/19/2001	5.69	1.030	3.22	27.6
	12/19/2001	6.91	0.416	2.30	24.0
	3/20/2002	5.87	0.463	6.50	21.8
	6/4/2002	5.80	0.345	1.74	26.8
	9/23/2002	5.74	0.677	0.58	28.5
	12/9/2002	5.00	NM	0.60	24.8
	3/11/2003	3.95	0.51	3.13	21.5
	6/7/2003	5.72	0.43	0.12	25.9
	9/2/2003	5.57	0.93	0.72	28.75
	12/12/2003	5.63	0.63	4.24	24.35
	3/17/2004	5.71	0.48	NM	23.01
VEW-1	1/25/2000	5.33	0.057	NM	23.0
	6/13/2000	NM	NM	NM	NM
	9/14/2000	NM	NM	NM	NM
	12/21/2000	NM	NM	NM	NM
	3/15/2001	NM	NM	NM	NM
	6/25/2001	NM	NM	NM	NM
	9/19/2001	NM	NM	NM	NM
	12/19/2001	NM	NM	NM	NM
	3/20/2002	NM	NM	NM	NM
	6/4/2002	NM	NM	NM	NM
	9/23/2002	NM	NM	NM	NM
	12/9/2002	NM	NM	NM	NM
	3/11/2003	NM	NM	NM	NM
	6/7/2003	NM	NM	NM	NM

TABLE 3-5
GROUNDWATER FIELD ANALYTICAL RESULTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

	Date	ph (s. u.)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature (^oC)
VEW-2	1/25/2000	5.63	0.085	NM	22.7
	6/13/2000	NM	NM	NM	NM
	9/14/2000	6.20	0.114	2.26	26.2
	12/21/2000	NM	NM	NM	NM
	3/15/2001	NM	NM	NM	NM
	6/25/2001	NM	NM	NM	NM
	9/19/2001	6.04	0.137	5.06	26.7
	12/19/2001	7.00	0.095	2.26	24.8
	3/20/2002	6.47	0.084	3.82	23.5
	6/5/2002	6.46	0.096	2.89	25.5
	9/23/2002	6.46	0.102	2.40	27.6
	12/10/2002	5.20	NM	0.80	25.2
	3/11/2003	5.90	0.11	2.51	21.1
	6/7/2003	6.09	0.13	0.00	22.9
	9/4/2003	5.60	0.34	1.34	26.85
	12/12/2003	5.82	0.563	4.01	22.78
	3/17/2004	5.48	0.172	0.8	21.30
VEW-3	1/25/2000	5.90	0.070	NM	22.1
	6/13/2000	4.86	0.034	-0.57	26.2
	9/14/2000	5.44	0.040	5.23	26.8
	12/21/2000	7.74	0.047	6.02	22.8
	3/15/2001	6.24	0.047	8.02	21.8
	6/25/2001	4.80	0.056	NM	24.7
	9/19/2001	6.38	0.130	5.86	26.9
	12/19/2001	6.94	0.057	6.79	23.9
	3/20/2002	5.64	0.081	5.91	23.0
	6/4/2002	5.51	0.089	5.35	25.7
	9/23/2002	6.57	0.130	5.33	28.1
	12/9/2002	4.56	NM	7.40	24.9
	3/11/2003	4.84	0.17	6.06	21.3
	6/7/2003	5.61	0.16	0.34	25.1
	9/2/2003	5.06	0.31	0.51	27.4
	12/12/2003	5.10	0.35	0.66	24.6
	3/17/2004	5.4	0.398	NM	21.8
VEW-4	1/25/2000	5.59	0.078	NM	23.0
	6/13/2000	NM	NM	NM	NM
	9/14/2000	6.48	0.086	2.48	26.6
	12/21/2000	7.92	0.045	4.55	23.8
	3/15/2001	5.31	0.045	6.81	22.2
	6/25/2001	5.40	0.045	NM	24.8
	9/19/2001	6.59	0.098	5.64	26.8
	12/19/2001	7.42	0.050	5.34	24.0
	3/20/2002	6.54	0.060	5.96	22.5
	6/4/2002	5.27	0.054	4.77	27.6
	9/23/2002	5.77	0.056	5.93	27.8
	12/10/2002	5.00	NM	5.60	25.1
	3/11/2003	4.35	0.126	5.85	22.4
	6/7/2003	5.60	0.109	0.00	25.1
	9/2/2003	5.35	0.277	0.00	27.53
	12/12/2003	5.37	0.358	0.28	24.34
	3/17/2004	5.17	0.316	NM	22.73

TABLE 3-5
GROUNDWATER FIELD ANALYTICAL RESULTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

	Date	ph (s. u.)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature (^oC)
VEW-5	1/25/2000	6.28	0.113	NM	21.5
	6/13/2000	4.87	0.080	-0.59	25.5
	9/14/2000	5.96	0.066	3.23	26.8
	12/21/2000	7.84	0.069	3.42	21.6
	3/15/2001	5.58	0.061	5.80	20.7
	6/25/2001	5.35	0.060	NM	24.7
	9/19/2001	6.14	0.106	4.78	27.4
	12/19/2001	6.74	0.057	5.03	22.9
	3/20/2002	6.17	0.074	6.85	21.7
	6/4/2002	5.52	0.082	3.81	25.6
	9/23/2002	6.23	0.094	4.51	28.3
	12/9/2002	NM	NM	5.80	24.1
	3/11/2003	4.35	0.104	5.25	20.7
	6/6/2003	5.10	0.122	0.02	24.7
	9/2/2003	4.84	0.319	0.08	27.7
	12/12/2003	4.68	0.278	0.36	23.6
	3/17/2004	5.00	0.245	NM	21.51
VEW-6	1/25/2000	5.78	0.076	NM	21.4
	6/13/2000	5.28	0.151	-0.60	26.0
	9/14/2000	8.81	0.066	3.08	26.9
	12/21/2000	7.37	0.083	4.33	22.3
	3/15/2001	6.57	0.127	7.26	20.9
	6/25/2001	5.54	0.064	NM	25.3
	9/19/2001	6.30	0.145	5.18	27.3
	12/19/2001	6.61	0.050	5.76	23.8
	3/20/2002	6.39	0.120	5.98	22.5
	6/4/2002	6.08	0.160	4.25	26.0
	9/23/2002	6.10	0.171	4.80	28.2
	12/9/2002	4.61	NM	6.10	24.7
	3/11/2003	4.37	0.158	5.15	21.4
VEW-7	1/25/2000	5.63	0.074	NM	21.8
	6/13/2000	5.12	0.126	-0.56	24.9
	9/14/2000	5.52	0.070	2.22	25.8
	12/21/2000	7.78	0.700	2.67	22.5
	3/15/2001	5.96	0.068	6.65	21.5
	6/25/2001	5.60	0.078	NM	24.0
	9/19/2001	5.49	0.109	8.56	25.4
	12/19/2001	6.83	0.064	3.04	23.3
	3/20/2002	6.20	0.075	4.71	22.5
	6/5/2002	6.24	0.083	2.60	24.5
	9/24/2002	5.76	0.071	0.66	25.8
	12/10/2002	4.90	NM	0.65	24.3
	3/11/2003	4.98	0.111	2.69	18.5
	6/7/2003	5.70	0.134	0.00	22.0
	9/4/2003	5.01	0.318	2.26	25.3
	12/12/2003	5.07	0.469	0.17	23.2
	3/17/2004	5.44	0.186	1.2	21.40

TABLE 3-5
GROUNDWATER FIELD ANALYTICAL RESULTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

	Date	ph (s. u.)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature (^oC)
VEW-8	1/25/2000	6.29	0.206	NM	22.1
	6/13/2000	5.60	0.219	-0.60	24.2
	9/14/2000	5.77	0.118	1.92	25.9
	12/21/2000	7.87	0.156	1.31	22.5
	3/15/2001	6.35	0.137	2.06	21.2
	6/25/2001	5.86	0.128	NM	23.4
	9/19/2001	4.69	0.162	7.21	25.5
	12/19/2001	5.5	0.089	3.75	23.0
	3/20/2002	6.14	0.134	1.41	22.3
	6/5/2002	6.11	0.153	1.83	24.4
	9/23/2002	5.45	0.145	1.09	26.3
	12/10/2002	5.10	NM	0.20	24.6
	3/11/2003	3.58	0.108	2.95	18.68

s. u. = standard units
mS/cm = milli siemens per centimeter
mg/L = Milligrams per liter
^oC = degrees Centigrade
NM = not measured

3.0 Summary of Sampling and Laboratory Analytical Results

3.1 Vapor Monitoring

As a result of FDEP system deactivation approval, the Vapor Collection System (VCS) discharge stack was not sampled during the monitoring periods from January 1, 2004 to March 31, 2004. Analytical results from previous sampling events are summarized on **Tables 3-1** and **3-2**. The pounds-per-day loading rate summary from previous sampling events is provided on **Table 3-3**.

To date, 23.03 pounds of VOCs have been removed from the subsurface via volatilization. It should be noted that this calculation does not take into account the reductions that were a result of biodegradation of the contaminants in the groundwater or the mass removed via recovery of LNAPL.

3.2 Groundwater Monitoring

As a result of substantial reductions in contaminant concentrations in groundwater sampled from monitoring wells at the Day Tank 1 site, the number of required monitoring locations was reduced on May 6, 2003 from twelve to seven by recommendation of FDEP. Seven monitoring locations (two monitoring wells and five vapor extraction wells) at the site were sampled on March 17, 2004 for VOA and semi-volatile organic aromatics SVOA using USEPA Methods 8260B and 8270C-SIM, respectively.

All sampling points exhibited decreases in contaminant concentrations compared to the baseline groundwater-sampling event performed on January 25, 2000. Benzene, naphthalene, 1-methylnapthalene, and 2-methylnapthalene concentrations in groundwater sampled from CEF-293-09 were greater than the Groundwater Cleanup Target Levels (GCTL) per Chapter 62-777 F.A.C, however the concentrations were less than the Natural Attenuation Default Source Concentrations (NADSC). Benzene concentrations in groundwater sampled from VEW-1 were greater than the GCTL, but less than the NADSC. The contaminant concentrations for all other monitoring locations were below the GCTLs for all constituents.

The locations of the monitoring/vapor extraction wells are shown on **Figure 1-1**. Copies of the analytical laboratory reports from the groundwater sampling events are provided in Appendix A, and analytical results are summarized on **Table 3-4**.

Field parameters, including pH, temperature and specific conductivity, and dissolved oxygen (DO) were also measured during the sampling event. Temperature, pH, and specific conductivity were measured with a Horiba® water quality meter for four wells. DO was not measured for these wells as a result of equipment malfunction. Temperature, pH, specific conductivity and DO were measured with an Accumet pH meter, a YSI-33 conductivity meter, and a YSI-51B DO meter for three wells. The results are summarized on **Table 3-5.**

4.0 Conclusions and Recommendations

Groundwater sampled from one monitoring wells (CEF-293-22) and four vapor extraction wells (VEW-2, -3, -4, and -5) were found to have contaminant concentrations less than the GCTL specified by Chapter 62-777 FAC. Groundwater sampled from one monitoring well (CEF-293-09) had benzene, naphthalene, 1-methylnapthalene, and 2-methylnapthalene concentrations greater than the GCTL. Groundwater from one vapor extraction well (VEW-7) had benzene concentrations greater than the GCTL. The presence of these contaminants could be indicative of rebound.

No LNAPL was discovered in VEW-1 during the first quarter 2004.

Based on analytical data obtained to date, the following is recommended for the site:

- Sample groundwater from VEW-1 to ensure that the groundwater in that area has been remediated.
- Continue groundwater sampling from monitoring wells and vapor extraction wells through third quarter, 2004 to monitor for rebound.

5.0 References

ABB Environmental Services, Inc. January 1997. Remedial Action Plan, Day Tank 1, Facility 293, Naval Air Station Cecil Field, Jacksonville, Florida.

APPENDICES

A	*1st Quarter 2004 Laboratory Analytical Reports for Groundwater Samples*
B	*1st Quarter 2004 Groundwater Sampling Logs*
C	*1st Quarter 2004 Site Visit Reports*

APPENDIX A

1st Quarter 2004 Laboratory Analytical Reports for Groundwater Samples

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TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division

COOLER RECEIPT FORM **BC#** 368161

Client Name : Terrane

Cooler Received/Opened On: 3/18/04 **Accessioned By:** Mark Beasley

M. Bly
Log-in Personnel Signature

1. Temperature of Cooler when triaged: 2.0 **Degrees Celsius**
2. Were custody seals on outside of cooler?..... YES...(NO)...NA
   a. If yes, how many, what kind and where:_____
3. Were custody seals on containers and intact?..... (NO)...YES...NA
4. Were the seals intact, signed, and dated correctly?..... YES...(NO)...NA
5. Were custody papers inside cooler?..... (YES)...NO...NA
6. Were custody papers properly filled out (ink, signed, etc)?..... (YES)...NO...NA
7. Did you sign the custody papers in the appropriate place?..... (YES)...NO...NA
8. What kind of packing material used? (Bubblewrap) Peanuts Vermiculite Other None
9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)?..... (YES)...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?..... (YES)...NO...NA
12. Did all container labels and tags agree with custody papers?..... (YES)...NO...NA
13. Were correct containers used for the analysis requested?..... (YES)...NO...NA
14. a. Were VOA vials received?..... (YES)...NO...NA
    b. Was there any observable head space present in any VOA vial?..... (NO)...YES...NA
15. Was sufficient amount of sample sent in each container?..... (YES)...NO...NA
16. Were correct preservatives used?..... (YES)...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?..... (NO)...YES...NA
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:

9080	9074	9070	9105	9068
UPS	Velocity	Airborne	Route	Off-street	(Fedex)	Misc.

19. If a Non-Conformance exists, see attached or comments below:

368161

TestAmerica, Inc.

2960 Foster Creighton Dr.
Nashville, TN 37204
Tel. No. 800-765-0980
Fax No. 615-726-0954

Terraine, Inc. - Chain Of Custody Record

ACCOUNT INFORMATION		TERRAINE PROJECT NO.	
TAI ACCOUNT NO: 9463	NAME OF PM TO BILL: James L. Young	0 4 - 4 1 0 0 1	DATE: 3/17/04
TAI QUOTE NO: 09230210902	PURCHASE ORDER NO 04-41001/5.4.2	TERRAINE TASK NO.	PAGE: 1 of 1
		5.4.2	

CONSULTANT COMPANY: TERRAINE, INC.
BILLING ADDRESS: 7380 Phillips Highway, Suite 106
CITY: Jacksonville, Florida 32256
TELEPHONE: 904-296-6001 | FAX: 305-513-4902 (main) | E-MAIL: jly@terraine.com

QC DELIVERABLES
- [x] STANDARD
- [ ] LEVEL 2
- BATCH QC
- [ ] LEVEL 3
- [ ] LEVEL 4

SITE DESCRIPTION: Day Tank 1
SITE ADDRESS (STREET, CITY, STATE): NAS Cecil Field, Jacksonville, Florida
PROJECT CONTACT (Report to): James L. Young | PROJECT CONTACT CELL PHONE: 305-490-7702 | PROJECT CONTACT E-MAIL: jly@terraine.com
FACILITY ID NO:
CONTRACT NO / CONTRACT TASK ORDER NO (for Federal Projects): N62467-02-G-0352 / CTO#0001
SAMPLER NAME(S) (Print): K. Baer / L. Wolski
SAMPLER NAME(S) (Signatures): [signature]
LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS): [x] STD [ ] 10 DAYS [ ] 5 DAYS [ ] 3 DAYS [ ] <24 HRS
ELECTRONIC DELIVERABLES: [x] FAX RESULTS [x] E-MAIL PDF [x] ELEC. DATA

TEMPERATURE ON RECEIPT (°C)

SPECIAL INSTRUCTIONS OR NOTES :

REQUESTED ANALYSIS (if more than one method is listed, circle one)

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX (AIR, GW, SOIL, SLUDGE, WW, ETC)	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH - Purgeable (8015) GRO	TPH - Extractable (8015) DRO	BTEX / MTBE (8021B)	BTEX / MTBE + Oxygenates (8260B)	VOCs (8260B)	VOCs Aromatic (8021B)	VOCs Halogenated (8021B)	PAH (8270)	Metals (Specify)	TRPH (FL-PRO)	Vapor VOCs BTEX, MTBE/GRO (EPA-18, TO-18)	Vapor VOCs Full List (EPA-18, TO	Pre burn (8021, Halogenated, FL-Pro, As, Cd, Cr, Pb)	Nitrate	Nitrite	Orthophosphate					Container PID Readings or Laboratory Notes/Remarks
	CEF-293-22 12	3/17/04	1551	GW	3			2		5					X			X													39795
	CEF-293-9	3/17/04	1425	GW	3			2		5					X			X													96
	VEW-7 14	3/17/04	1525	GW	3			2		5					X			X													97
	VEW-2	3/17/04	1555	GW	3			2		5					X			X													98
	VEW-3 16	3/17/04	1417	GW	3			2		5					X			X													99
	VEW-4	3/17/04	1650	GW	3			2		5					X			X													00
	VEW-5 18	3/17/04	1459	GW	3			2		5					X			X													01
	TRIP BLANK	—		DI	1					1					X																02
	EB-DAYTANK1 20	3/17/04	1620	DI	3			1		4					X			X													39803

Relinquished by (Signature)	Received by (Signature)	Date	Time
[signature]		3/17/04	
	MB	3/18/04	8:00

05/1/01 Revision

368161

TestAmerica INCORPORATED

Sample NonConformance/COC Revision Form

Initiated by:	Mbeasley	**Phone:**	305-513-4901	NC Closed	☑
Client Name:	TERRAINE, INC.	**Sample Range:**		Date Closed	3/18/2004
Client Contact:	JIM YOUNG	**SDG:**			
Client Account:	9463	**Analyst:**	5		
Date Created:	3/18/2004	**Supervisor:**	Paul Buckingham		
NC #:		**NC Type:**	NC Analytical 1		
Project Name:	Fire Fighter Training Faci	**Terminal Manager:**			
Project Number:	N62467-02-G-0352/CTO				
Project Origin	FL				
Regulatory :					

Process: Other NC/Process: See Comment Section Below
Action: Corrected action not chosen
Corrected By: Kenny Bundy
Closed: ☑ Kbundy

Process: Documentation Level?
Action: Corrected action not chosen
Corrected By: Kenny Bundy
Closed: ☑ Kbundy

Comments:

Comment added by: Mbeasley on 3/18/2004 9:43:17 AM
NC closed with out comments

****
Comment added by: Kbundy on 3/18/2004 9:26:12 AM
This is a level II project.

****
Comment added by: Kbundy on 3/18/2004 9:25:29 AM
Per client notes, the Cecil Field site requires PAH by 8270 SIM.

****
Regular PAH 8270 or SIMS?

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3/30/04 CASE NARRATIVE

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: FIRE FIGHTER TRAINING
Project Number: N62467-02-G-0352/CTO #1.
Laboratory Project Number: 368161.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

Sample Identification	Lab Number	Collection Date
MW-1	04-A39784	3/17/04
MW-2	04-A39785	3/17/04
MW-5	04-A39786	3/17/04
MW-6D	04-A39787	3/17/04
MW-7	04-A39788	3/17/04
MW-13	04-A39789	3/17/04
MW-14	04-A39790	3/17/04
MW-3	04-A39791	3/17/04
MW-4	04-A39792	3/17/04
TRIP BLANK-1	04-A39793	
EB-FFTA	04-A39794	3/17/04
CEF-293-22	04-A39795	3/17/04
CEF-293-9	04-A39796	3/17/04
VEW-7	04-A39797	3/17/04
VEW-2	04-A39798	3/17/04
VEW-3	04-A39799	3/17/04
VEW-4	04-A39800	3/17/04

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Sample Identification	Lab Number	Collection Date
VEW-5	04-A39801	3/17/04
TRIP BLANK-2	04-A39802	
EB-DAYTANK1	04-A39803	3/17/04

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 3/30/04

Johnny A. Mitchell, Operations Manager
Michael H. Dunn, M.S., Technical Director
Pamela A. Langford, Technical Serv
Eric S. Smith, QA/QC
Gail A. Lage, QA/QC
Glenn L. Norton, QA/QC
Kelly S. Comstock, QA/QC
Roxanne L. Connor, QA/QC

Laboratory Certification Number: E87358

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ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Project: N62467-02-G-0352/CTO #1
Project Name: FIRE FIGHTER TRAINING
Sampler: KB/LW

Lab Number: 04-A39795
Sample ID: CEF-293-22
Sample Type: Water
Site ID:

Date Collected: 3/17/04
Time Collected: 15:51
Date Received: 3/18/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.12	1.0	3/28/04	1:15	D. Harris	8270C-SIM	8793
Acenaphthylene	ND	ug/L	0.12	1.0	3/28/04	1:15	D. Harris	8270C-SIM	8793
Anthracene	ND	ug/L	0.12	1.0	3/28/04	1:15	D. Harris	8270C-SIM	8793
Benzo(a)anthracene	ND	ug/L	0.12	1.0	3/28/04	1:15	D. Harris	8270C-SIM	8793
Benzo(a)pyrene	ND	ug/L	0.12	1.0	3/28/04	1:15	D. Harris	8270C-SIM	8793
Benzo(b)fluoranthene	ND	ug/L	0.12	1.0	3/28/04	1:15	D. Harris	8270C-SIM	8793
Benzo(g,h,i)perylene	ND	ug/L	0.12	1.0	3/28/04	1:15	D. Harris	8270C-SIM	8793
Benzo(k)fluoranthene	ND	ug/L	0.12	1.0	3/28/04	1:15	D. Harris	8270C-SIM	8793
Chrysene	ND	ug/L	0.12	1.0	3/28/04	1:15	D. Harris	8270C-SIM	8793
Dibenz(a,h)anthracene	ND	ug/L	0.12	1.0	3/28/04	1:15	D. Harris	8270C-SIM	8793
Fluoranthene	ND	ug/L	0.12	1.0	3/28/04	1:15	D. Harris	8270C-SIM	8793
Fluorene	ND	ug/L	0.12	1.0	3/28/04	1:15	D. Harris	8270C-SIM	8793
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.12	1.0	3/28/04	1:15	D. Harris	8270C-SIM	8793
2-Methylnaphthalene	1.20	ug/L	0.12	1.0	3/28/04	1:15	D. Harris	8270C-SIM	8793
Naphthalene	ND	ug/L	0.12	1.0	3/28/04	1:15	D. Harris	8270C-SIM	8793
Phenanthrene	0.16	ug/L	0.12	1.0	3/28/04	1:15	D. Harris	8270C-SIM	8793
Pyrene	ND	ug/L	0.12	1.0	3/28/04	1:15	D. Harris	8270C-SIM	8793
1-Methylnaphthalene	1.35	ug/L	0.12	1.0	3/28/04	1:15	D. Harris	8270C-SIM	8793
VOLATILE ORGANICS									
Benzene	ND	ug/L	1.0	1.0	3/25/04	6:08	B.Herford	8260B	3097
Toluene	ND	ug/L	1.0	1.0	3/25/04	6:08	B.Herford	8260B	3097
Ethylbenzene	ND	ug/L	1.0	1.0	3/25/04	6:08	B.Herford	8260B	3097
Xylenes (Total)	ND	ug/L	1.0	1.0	3/25/04	6:08	B.Herford	8260B	3097
1,2-Dibromoethane	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
Naphthalene	ND	ug/L	5.00	1.0	3/25/04	6:08	B.Herford	8260B	3097

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39795
Sample ID: CEF-293-22
Project: N62467-02-G-0352/CTO #1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Acetone	ND	ug/L	25.0	1.0	3/25/04	6:08	B.Herford	8260B	3097
Bromobenzene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
Bromochloromethane	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
Bromoform	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
Bromomethane	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
2-Butanone	ND	ug/L	25.0	1.0	3/25/04	6:08	B.Herford	8260B	3097
n-Butylbenzene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
sec-Butylbenzene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
tert-Butylbenzene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
Carbon disulfide	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
Carbon tetrachloride	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
Chlorobenzene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
Chloroethane	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
Chloroform	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
Chloromethane	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
2-Chlorotoluene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
4-Chlorotoluene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
Dibromochloromethane	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
Dibromomethane	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
1,1-Dichloroethane	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
1,2-Dichloroethane	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
1,1-Dichloroethene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
1,2-Dichloropropane	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
1,3-Dichloropropane	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
2,2-Dichloropropane	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
1,1-Dichloropropene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
Hexachlorobutadiene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39795
Sample ID: CEF-293-22
Project: N62467-02-G-0352/CTO #1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2-Hexanone	ND	ug/L	5.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
Isopropylbenzene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
p-Isopropyltoluene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
Methylene chloride	ND	ug/L	2.50	1.0	3/25/04	6:08	B.Herford	8260B	3097
n-Propylbenzene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
Styrene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
Tetrachloroethene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
Trichloroethene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	3/25/04	6:08	B.Herford	8260B	3097
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
Vinyl chloride	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
Bromodichloromethane	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097
Trichlorofluoromethane	ND	ug/L	1.00	1.0	3/25/04	6:08	B.Herford	8260B	3097

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	800. ml	1.0 ml	3/19/04		K. Turner	3510C

Surrogate	% Recovery	Target Range

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39795
Sample ID: CEF-293-22
Project: N62467-02-G-0352/CTO #1

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	101.	71. - 128.
VOA Surr Toluene-d8	94.	77. - 119.
VOA Surr, 4-BFB	91.	79. - 123.
VOA Surr, DBFM	113.	78. - 124.
BNA Surr-Nitrobenzene-d5	85.	25. - 121.
BNA Surr-2-Fluorobiphenyl	84.	33. - 111.
BNA Surr-Terphenyl-d14	94.	11. - 139.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

TestAmerica
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ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Project: N62467-02-G-0352/CTO #1
Project Name: FIRE FIGHTER TRAINING
Sampler: KB/LW

Lab Number: 04-A39796
Sample ID: CEF-293-9
Sample Type: Water
Site ID:

Date Collected: 3/17/04
Time Collected: 14:25
Date Received: 3/18/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	0.14	ug/L	0.11	1.0	3/28/04	1:45	D. Harris	8270C-SIM	8793
Acenaphthylene	ND	ug/L	0.11	1.0	3/28/04	1:45	D. Harris	8270C-SIM	8793
Anthracene	ND	ug/L	0.11	1.0	3/28/04	1:45	D. Harris	8270C-SIM	8793
Benzo(a)anthracene	ND	ug/L	0.11	1.0	3/28/04	1:45	D. Harris	8270C-SIM	8793
Benzo(a)pyrene	ND	ug/L	0.11	1.0	3/28/04	1:45	D. Harris	8270C-SIM	8793
Benzo(b)fluoranthene	ND	ug/L	0.11	1.0	3/28/04	1:45	D. Harris	8270C-SIM	8793
Benzo(g,h,i)perylene	ND	ug/L	0.11	1.0	3/28/04	1:45	D. Harris	8270C-SIM	8793
Benzo(k)fluoranthene	ND	ug/L	0.11	1.0	3/28/04	1:45	D. Harris	8270C-SIM	8793
Chrysene	ND	ug/L	0.11	1.0	3/28/04	1:45	D. Harris	8270C-SIM	8793
Dibenz(a,h)anthracene	ND	ug/L	0.11	1.0	3/28/04	1:45	D. Harris	8270C-SIM	8793
Fluoranthene	ND	ug/L	0.11	1.0	3/28/04	1:45	D. Harris	8270C-SIM	8793
Fluorene	ND	ug/L	0.11	1.0	3/28/04	1:45	D. Harris	8270C-SIM	8793
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1.0	3/28/04	1:45	D. Harris	8270C-SIM	8793
2-Methylnaphthalene	50.4	ug/L	2.22	20.0	3/30/04	10:25	D. Harris	8270C-SIM	8793
Naphthalene	136.	ug/L	2.22	20.0	3/30/04	10:25	D. Harris	8270C-SIM	8793
Phenanthrene	ND	ug/L	0.11	1.0	3/28/04	1:45	D. Harris	8270C-SIM	8793
Pyrene	ND	ug/L	0.11	1.0	3/28/04	1:45	D. Harris	8270C-SIM	8793
1-Methylnaphthalene	47.1	ug/L	2.22	20.0	3/30/04	10:25	D. Harris	8270C-SIM	8793
VOLATILE ORGANICS									
Benzene	2.3	ug/L	1.0	1.0	3/25/04	6:36	B.Herford	8260B	3097
Toluene	ND	ug/L	1.0	1.0	3/25/04	6:36	B.Herford	8260B	3097
Ethylbenzene	5.7	ug/L	1.0	1.0	3/25/04	6:36	B.Herford	8260B	3097
Xylenes (Total)	ND	ug/L	1.0	1.0	3/25/04	6:36	B.Herford	8260B	3097
1,2-Dibromoethane	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
Naphthalene	144.	ug/L	25.0	5.0	3/25/04	15:34	B.Herford	8260B	4477

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39796
Sample ID: CEF-293-9
Project: N62467-02-G-0352/CTO #1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Acetone	ND	ug/L	25.0	1.0	3/25/04	6:36	B.Herford	8260B	3097
Bromobenzene	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
Bromochloromethane	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
Bromoform	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
Bromomethane	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
2-Butanone	ND	ug/L	25.0	1.0	3/25/04	6:36	B.Herford	8260B	3097
n-Butylbenzene	2.40	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
sec-Butylbenzene	4.10	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
tert-Butylbenzene	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
Carbon disulfide	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
Carbon tetrachloride	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
Chlorobenzene	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
Chloroethane	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
Chloroform	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
Chloromethane	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
2-Chlorotoluene	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
4-Chlorotoluene	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
Dibromochloromethane	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
Dibromomethane	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
1,1-Dichloroethane	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
1,2-Dichloroethane	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
1,1-Dichloroethene	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
1,2-Dichloropropane	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
1,3-Dichloropropane	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
2,2-Dichloropropane	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
1,1-Dichloropropene	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
Hexachlorobutadiene	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39796
Sample ID: CEF-293-9
Project: N62467-02-G-0352/CTO #1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2-Hexanone	ND	ug/L	5.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
Isopropylbenzene	7.90	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
p-Isopropyltoluene	1.20	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
Methylene chloride	ND	ug/L	2.50	1.0	3/25/04	6:36	B.Herford	8260B	3097
n-Propylbenzene	13.1	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
Styrene	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
Tetrachloroethene	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
Trichloroethene	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	3/25/04	6:36	B.Herford	8260B	3097
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
Vinyl chloride	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
Bromodichloromethane	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097
Trichlorofluoromethane	ND	ug/L	1.00	1.0	3/25/04	6:36	B.Herford	8260B	3097

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	900. ml	1.0 ml	3/19/04		K. Turner	3510C

Surrogate	% Recovery	Target Range

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39796
Sample ID: CEF-293-9
Project: N62467-02-G-0352/CTO #1

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	99.	71. - 128.
VOA Surr Toluene-d8	91.	77. - 119.
VOA Surr, 4-BFB	92.	79. - 123.
VOA Surr, DBFM	113.	78. - 124.
BNA Surr-Nitrobenzene-d5	83.	25. - 121.
BNA Surr-2-Fluorobiphenyl	80.	33. - 111.
BNA Surr-Terphenyl-d14	96.	11. - 139.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Project: N62467-02-G-0352/CTO #1
Project Name: FIRE FIGHTER TRAINING
Sampler: KB/LW

Lab Number: 04-A39797
Sample ID: VEW-7
Sample Type: Water
Site ID:

Date Collected: 3/17/04
Time Collected: 15:25
Date Received: 3/18/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.11	1.0	3/28/04	2:15	D. Harris	8270C-SIM	8793
Acenaphthylene	ND	ug/L	0.11	1.0	3/28/04	2:15	D. Harris	8270C-SIM	8793
Anthracene	ND	ug/L	0.11	1.0	3/28/04	2:15	D. Harris	8270C-SIM	8793
Benzo(a)anthracene	ND	ug/L	0.11	1.0	3/28/04	2:15	D. Harris	8270C-SIM	8793
Benzo(a)pyrene	ND	ug/L	0.11	1.0	3/28/04	2:15	D. Harris	8270C-SIM	8793
Benzo(b)fluoranthene	ND	ug/L	0.11	1.0	3/28/04	2:15	D. Harris	8270C-SIM	8793
Benzo(g,h,i)perylene	ND	ug/L	0.11	1.0	3/28/04	2:15	D. Harris	8270C-SIM	8793
Benzo(k)fluoranthene	ND	ug/L	0.11	1.0	3/28/04	2:15	D. Harris	8270C-SIM	8793
Chrysene	ND	ug/L	0.11	1.0	3/28/04	2:15	D. Harris	8270C-SIM	8793
Dibenz(a,h)anthracene	ND	ug/L	0.11	1.0	3/28/04	2:15	D. Harris	8270C-SIM	8793
Fluoranthene	ND	ug/L	0.11	1.0	3/28/04	2:15	D. Harris	8270C-SIM	8793
Fluorene	ND	ug/L	0.11	1.0	3/28/04	2:15	D. Harris	8270C-SIM	8793
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1.0	3/28/04	2:15	D. Harris	8270C-SIM	8793
2-Methylnaphthalene	0.20	ug/L	0.11	1.0	3/28/04	2:15	D. Harris	8270C-SIM	8793
Naphthalene	4.09	ug/L	0.11	1.0	3/28/04	2:15	D. Harris	8270C-SIM	8793
Phenanthrene	ND	ug/L	0.11	1.0	3/28/04	2:15	D. Harris	8270C-SIM	8793
Pyrene	ND	ug/L	0.11	1.0	3/28/04	2:15	D. Harris	8270C-SIM	8793
1-Methylnaphthalene	0.22	ug/L	0.11	1.0	3/28/04	2:15	D. Harris	8270C-SIM	8793
VOLATILE ORGANICS									
Benzene	2.2	ug/L	1.0	1.0	3/22/04	20:07	B.Herford	8260B	378
Toluene	ND	ug/L	1.0	1.0	3/22/04	20:07	B.Herford	8260B	378
Ethylbenzene	1.2	ug/L	1.0	1.0	3/22/04	20:07	B.Herford	8260B	378
Xylenes (Total)	7.7	ug/L	1.0	1.0	3/22/04	20:07	B.Herford	8260B	378
1,2-Dibromoethane	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
Naphthalene	ND	ug/L	5.00	1.0	3/22/04	20:07	B.Herford	8260B	378

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39797
Sample ID: VEW-7
Project: N62467-02-G-0352/CTO #1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Acetone	ND	ug/L	25.0	1.0	3/22/04	20:07	B.Herford	8260B	378
Bromobenzene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
Bromochloromethane	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
Bromoform	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
Bromomethane	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
2-Butanone	ND	ug/L	25.0	1.0	3/22/04	20:07	B.Herford	8260B	378
n-Butylbenzene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
sec-Butylbenzene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
tert-Butylbenzene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
Carbon disulfide	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
Carbon tetrachloride	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
Chlorobenzene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
Chloroethane	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
Chloroform	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
Chloromethane	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
2-Chlorotoluene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
4-Chlorotoluene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	3/22/04	20:07	B.Herford	8260B	378
Dibromochloromethane	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
Dibromomethane	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
1,1-Dichloroethane	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
1,2-Dichloroethane	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
1,1-Dichloroethene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
1,2-Dichloropropane	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
1,3-Dichloropropane	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
2,2-Dichloropropane	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
1,1-Dichloropropene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
Hexachlorobutadiene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39797
Sample ID: VEW-7
Project: N62467-02-G-0352/CTO #1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2-Hexanone	ND	ug/L	5.00	1.0	3/22/04	20:07	B.Herford	8260B	378
Isopropylbenzene	1.00	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
p-Isopropyltoluene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	3/22/04	20:07	B.Herford	8260B	378
Methylene chloride	ND	ug/L	2.50	1.0	3/22/04	20:07	B.Herford	8260B	378
n-Propylbenzene	1.00	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
Styrene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
Tetrachloroethene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
Trichloroethene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
1,2,4-Trimethylbenzene	5.7	ug/L	1.0	1.0	3/22/04	20:07	B.Herford	8260B	378
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
Vinyl chloride	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
Bromodichloromethane	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378
Trichlorofluoromethane	ND	ug/L	1.00	1.0	3/22/04	20:07	B.Herford	8260B	378

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	900. ml	1.0 ml	3/19/04		K. Turner	3510C

Surrogate	% Recovery	Target Range

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39797
Sample ID: VEW-7
Project: N62467-02-G-0352/CTO #1

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	96.	71. - 128.
VOA Surr Toluene-d8	96.	77. - 119.
VOA Surr, 4-BFB	91.	79. - 123.
VOA Surr, DBFM	108.	78. - 124.
BNA Surr-Nitrobenzene-d5	95.	25. - 121.
BNA Surr-2-Fluorobiphenyl	85.	33. - 111.
BNA Surr-Terphenyl-d14	102.	11. - 139.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Project: N62467-02-G-0352/CTO #1
Project Name: FIRE FIGHTER TRAINING
Sampler: KB/LW

Lab Number: 04-A39798
Sample ID: VEW-2
Sample Type: Water
Site ID:

Date Collected: 3/17/04
Time Collected: 15:55
Date Received: 3/18/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.11	1.0	3/28/04	2:45	D. Harris	8270C-SIM	8793
Acenaphthylene	ND	ug/L	0.11	1.0	3/28/04	2:45	D. Harris	8270C-SIM	8793
Anthracene	ND	ug/L	0.11	1.0	3/28/04	2:45	D. Harris	8270C-SIM	8793
Benzo(a)anthracene	ND	ug/L	0.11	1.0	3/28/04	2:45	D. Harris	8270C-SIM	8793
Benzo(a)pyrene	ND	ug/L	0.11	1.0	3/28/04	2:45	D. Harris	8270C-SIM	8793
Benzo(b)fluoranthene	ND	ug/L	0.11	1.0	3/28/04	2:45	D. Harris	8270C-SIM	8793
Benzo(g,h,i)perylene	ND	ug/L	0.11	1.0	3/28/04	2:45	D. Harris	8270C-SIM	8793
Benzo(k)fluoranthene	ND	ug/L	0.11	1.0	3/28/04	2:45	D. Harris	8270C-SIM	8793
Chrysene	ND	ug/L	0.11	1.0	3/28/04	2:45	D. Harris	8270C-SIM	8793
Dibenz(a,h)anthracene	ND	ug/L	0.11	1.0	3/28/04	2:45	D. Harris	8270C-SIM	8793
Fluoranthene	ND	ug/L	0.11	1.0	3/28/04	2:45	D. Harris	8270C-SIM	8793
Fluorene	ND	ug/L	0.11	1.0	3/28/04	2:45	D. Harris	8270C-SIM	8793
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1.0	3/28/04	2:45	D. Harris	8270C-SIM	8793
2-Methylnaphthalene	1.09	ug/L	0.11	1.0	3/28/04	2:45	D. Harris	8270C-SIM	8793
Naphthalene	0.58	ug/L	0.11	1.0	3/28/04	2:45	D. Harris	8270C-SIM	8793
Phenanthrene	ND	ug/L	0.11	1.0	3/28/04	2:45	D. Harris	8270C-SIM	8793
Pyrene	ND	ug/L	0.11	1.0	3/28/04	2:45	D. Harris	8270C-SIM	8793
1-Methylnaphthalene	1.27	ug/L	0.11	1.0	3/28/04	2:45	D. Harris	8270C-SIM	8793
VOLATILE ORGANICS									
Benzene	ND	ug/L	1.0	1.0	3/22/04	20:36	B.Herford	8260B	378
Toluene	ND	ug/L	1.0	1.0	3/22/04	20:36	B.Herford	8260B	378
Ethylbenzene	ND	ug/L	1.0	1.0	3/22/04	20:36	B.Herford	8260B	378
Xylenes (Total)	ND	ug/L	1.0	1.0	3/22/04	20:36	B.Herford	8260B	378
1,2-Dibromoethane	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
Naphthalene	ND	ug/L	5.00	1.0	3/22/04	20:36	B.Herford	8260B	378

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39798
Sample ID: VEW-2
Project: N62467-02-G-0352/CTO #1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Acetone	ND	ug/L	25.0	1.0	3/22/04	20:36	B.Herford	8260B	378
Bromobenzene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
Bromochloromethane	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
Bromoform	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
Bromomethane	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
2-Butanone	ND	ug/L	25.0	1.0	3/22/04	20:36	B.Herford	8260B	378
n-Butylbenzene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
sec-Butylbenzene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
tert-Butylbenzene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
Carbon disulfide	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
Carbon tetrachloride	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
Chlorobenzene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
Chloroethane	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
Chloroform	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
Chloromethane	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
2-Chlorotoluene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
4-Chlorotoluene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	3/22/04	20:36	B.Herford	8260B	378
Dibromochloromethane	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
Dibromomethane	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
1,1-Dichloroethane	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
1,2-Dichloroethane	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
1,1-Dichloroethene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
1,2-Dichloropropane	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
1,3-Dichloropropane	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
2,2-Dichloropropane	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
1,1-Dichloropropene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
Hexachlorobutadiene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39798
Sample ID: VEW-2
Project: N62467-02-G-0352/CTO #1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2-Hexanone	ND	ug/L	5.00	1.0	3/22/04	20:36	B.Herford	8260B	378
Isopropylbenzene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
p-Isopropyltoluene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	3/22/04	20:36	B.Herford	8260B	378
Methylene chloride	ND	ug/L	2.50	1.0	3/22/04	20:36	B.Herford	8260B	378
n-Propylbenzene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
Styrene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
Tetrachloroethene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
Trichloroethene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
1,2,4-Trimethylbenzene	2.0	ug/L	1.0	1.0	3/22/04	20:36	B.Herford	8260B	378
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
Vinyl chloride	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
Bromodichloromethane	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378
Trichlorofluoromethane	ND	ug/L	1.00	1.0	3/22/04	20:36	B.Herford	8260B	378

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	900. ml	1.0 ml	3/19/04		K. Turner	3510C

Surrogate	% Recovery	Target Range

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39798
Sample ID: VEW-2
Project: N62467-02-G-0352/CTO #1

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	98.	71. - 128.
VOA Surr Toluene-d8	92.	77. - 119.
VOA Surr, 4-BFB	88.	79. - 123.
VOA Surr, DBFM	111.	78. - 124.
BNA Surr-Nitrobenzene-d5	86.	25. - 121.
BNA Surr-2-Fluorobiphenyl	81.	33. - 111.
BNA Surr-Terphenyl-d14	106.	11. - 139.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Project: N62467-02-G-0352/CTO #1
Project Name: FIRE FIGHTER TRAINING
Sampler: KB/LW

Lab Number: 04-A39799
Sample ID: VEW-3
Sample Type: Water
Site ID:

Date Collected: 3/17/04
Time Collected: 14:17
Date Received: 3/18/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.11	1.0	3/28/04	3:15	D. Harris	8270C-SIM	8793
Acenaphthylene	ND	ug/L	0.11	1.0	3/28/04	3:15	D. Harris	8270C-SIM	8793
Anthracene	ND	ug/L	0.11	1.0	3/28/04	3:15	D. Harris	8270C-SIM	8793
Benzo(a)anthracene	ND	ug/L	0.11	1.0	3/28/04	3:15	D. Harris	8270C-SIM	8793
Benzo(a)pyrene	ND	ug/L	0.11	1.0	3/28/04	3:15	D. Harris	8270C-SIM	8793
Benzo(b)fluoranthene	ND	ug/L	0.11	1.0	3/28/04	3:15	D. Harris	8270C-SIM	8793
Benzo(g,h,i)perylene	ND	ug/L	0.11	1.0	3/28/04	3:15	D. Harris	8270C-SIM	8793
Benzo(k)fluoranthene	ND	ug/L	0.11	1.0	3/28/04	3:15	D. Harris	8270C-SIM	8793
Chrysene	ND	ug/L	0.11	1.0	3/28/04	3:15	D. Harris	8270C-SIM	8793
Dibenz(a,h)anthracene	ND	ug/L	0.11	1.0	3/28/04	3:15	D. Harris	8270C-SIM	8793
Fluoranthene	ND	ug/L	0.11	1.0	3/28/04	3:15	D. Harris	8270C-SIM	8793
Fluorene	ND	ug/L	0.11	1.0	3/28/04	3:15	D. Harris	8270C-SIM	8793
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1.0	3/28/04	3:15	D. Harris	8270C-SIM	8793
2-Methylnaphthalene	1.46	ug/L	0.11	1.0	3/28/04	3:15	D. Harris	8270C-SIM	8793
Naphthalene	1.87	ug/L	0.11	1.0	3/28/04	3:15	D. Harris	8270C-SIM	8793
Phenanthrene	ND	ug/L	0.11	1.0	3/28/04	3:15	D. Harris	8270C-SIM	8793
Pyrene	ND	ug/L	0.11	1.0	3/28/04	3:15	D. Harris	8270C-SIM	8793
1-Methylnaphthalene	2.27	ug/L	0.11	1.0	3/28/04	3:15	D. Harris	8270C-SIM	8793
VOLATILE ORGANICS									
Benzene	ND	ug/L	1.0	1.0	3/22/04	21:04	B.Herford	8260B	378
Toluene	ND	ug/L	1.0	1.0	3/22/04	21:04	B.Herford	8260B	378
Ethylbenzene	ND	ug/L	1.0	1.0	3/22/04	21:04	B.Herford	8260B	378
Xylenes (Total)	ND	ug/L	1.0	1.0	3/22/04	21:04	B.Herford	8260B	378
1,2-Dibromoethane	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
Naphthalene	ND	ug/L	5.00	1.0	3/22/04	21:04	B.Herford	8260B	378

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39799
Sample ID: VEW-3
Project: N62467-02-G-0352/CTO #1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Acetone	ND	ug/L	25.0	1.0	3/22/04	21:04	B.Herford	8260B	378
Bromobenzene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
Bromochloromethane	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
Bromoform	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
Bromomethane	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
2-Butanone	ND	ug/L	25.0	1.0	3/22/04	21:04	B.Herford	8260B	378
n-Butylbenzene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
sec-Butylbenzene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
tert-Butylbenzene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
Carbon disulfide	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
Carbon tetrachloride	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
Chlorobenzene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
Chloroethane	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
Chloroform	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
Chloromethane	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
2-Chlorotoluene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
4-Chlorotoluene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	3/22/04	21:04	B.Herford	8260B	378
Dibromochloromethane	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
Dibromomethane	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
1,1-Dichloroethane	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
1,2-Dichloroethane	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
1,1-Dichloroethene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
1,2-Dichloropropane	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
1,3-Dichloropropane	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
2,2-Dichloropropane	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
1,1-Dichloropropene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
Hexachlorobutadiene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39799
Sample ID: VEW-3
Project: N62467-02-G-0352/CTO #1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2-Hexanone	ND	ug/L	5.00	1.0	3/22/04	21:04	B.Herford	8260B	378
Isopropylbenzene	3.80	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
p-Isopropyltoluene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	3/22/04	21:04	B.Herford	8260B	378
Methylene chloride	ND	ug/L	2.50	1.0	3/22/04	21:04	B.Herford	8260B	378
n-Propylbenzene	4.20	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
Styrene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
Tetrachloroethene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
Trichloroethene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	3/22/04	21:04	B.Herford	8260B	378
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
Vinyl chloride	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
Bromodichloromethane	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378
Trichlorofluoromethane	ND	ug/L	1.00	1.0	3/22/04	21:04	B.Herford	8260B	378

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	900. ml	1.0 ml	3/19/04		K. Turner	3510C

Surrogate	% Recovery	Target Range

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39799
Sample ID: VEW-3
Project: N62467-02-G-0352/CTO #1

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	97.	71. - 128.
VOA Surr Toluene-d8	98.	77. - 119.
VOA Surr, 4-BFB	92.	79. - 123.
VOA Surr, DBFM	110.	78. - 124.
BNA Surr-Nitrobenzene-d5	87.	25. - 121.
BNA Surr-2-Fluorobiphenyl	85.	33. - 111.
BNA Surr-Terphenyl-d14	97.	11. - 139.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Project: N62467-02-G-0352/CTO #1
Project Name: FIRE FIGHTER TRAINING
Sampler: KB/LW

Lab Number: 04-A39800
Sample ID: VEW-4
Sample Type: Water
Site ID:

Date Collected: 3/17/04
Time Collected: 16:50
Date Received: 3/18/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	3/30/04	1:58	D. Harris	8270C-SIM	8793
Acenaphthylene	ND	ug/L	0.10	1.0	3/30/04	1:58	D. Harris	8270C-SIM	8793
Anthracene	ND	ug/L	0.10	1.0	3/30/04	1:58	D. Harris	8270C-SIM	8793
Benzo(a)anthracene	ND	ug/L	0.10	1.0	3/30/04	1:58	D. Harris	8270C-SIM	8793
Benzo(a)pyrene	ND	ug/L	0.10	1.0	3/30/04	1:58	D. Harris	8270C-SIM	8793
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	3/30/04	1:58	D. Harris	8270C-SIM	8793
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	3/30/04	1:58	D. Harris	8270C-SIM	8793
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	3/30/04	1:58	D. Harris	8270C-SIM	8793
Chrysene	ND	ug/L	0.10	1.0	3/30/04	1:58	D. Harris	8270C-SIM	8793
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	3/30/04	1:58	D. Harris	8270C-SIM	8793
Fluoranthene	ND	ug/L	0.10	1.0	3/30/04	1:58	D. Harris	8270C-SIM	8793
Fluorene	ND	ug/L	0.10	1.0	3/30/04	1:58	D. Harris	8270C-SIM	8793
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	3/30/04	1:58	D. Harris	8270C-SIM	8793
2-Methylnaphthalene	ND	ug/L	0.10	1.0	3/30/04	1:58	D. Harris	8270C-SIM	8793
Naphthalene	ND	ug/L	0.10	1.0	3/30/04	1:58	D. Harris	8270C-SIM	8793
Phenanthrene	ND	ug/L	0.10	1.0	3/30/04	1:58	D. Harris	8270C-SIM	8793
Pyrene	ND	ug/L	0.10	1.0	3/30/04	1:58	D. Harris	8270C-SIM	8793
1-Methylnaphthalene	ND	ug/L	0.10	1.0	3/30/04	1:58	D. Harris	8270C-SIM	8793
VOLATILE ORGANICS									
Benzene	ND	ug/L	1.0	1.0	3/25/04	7:05	B.Herford	8260B	3097
Toluene	ND	ug/L	1.0	1.0	3/25/04	7:05	B.Herford	8260B	3097
Ethylbenzene	ND	ug/L	1.0	1.0	3/25/04	7:05	B.Herford	8260B	3097
Xylenes (Total)	ND	ug/L	1.0	1.0	3/25/04	7:05	B.Herford	8260B	3097
1,2-Dibromoethane	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
Naphthalene	ND	ug/L	5.00	1.0	3/25/04	7:05	B.Herford	8260B	3097

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39800
Sample ID: VEW-4
Project: N62467-02-G-0352/CTO #1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Acetone	ND	ug/L	25.0	1.0	3/25/04	7:05	B.Herford	8260B	3097
Bromobenzene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
Bromochloromethane	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
Bromoform	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
Bromomethane	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
2-Butanone	ND	ug/L	25.0	1.0	3/25/04	7:05	B.Herford	8260B	3097
n-Butylbenzene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
sec-Butylbenzene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
tert-Butylbenzene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
Carbon disulfide	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
Carbon tetrachloride	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
Chlorobenzene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
Chloroethane	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
Chloroform	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
Chloromethane	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
2-Chlorotoluene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
4-Chlorotoluene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
Dibromochloromethane	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
Dibromomethane	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
1,1-Dichloroethane	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
1,2-Dichloroethane	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
1,1-Dichloroethene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
1,2-Dichloropropane	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
1,3-Dichloropropane	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
2,2-Dichloropropane	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
1,1-Dichloropropene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
Hexachlorobutadiene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39800
Sample ID: VEW-4
Project: N62467-02-G-0352/CTO #1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2-Hexanone	ND	ug/L	5.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
Isopropylbenzene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
p-Isopropyltoluene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
Methylene chloride	ND	ug/L	2.50	1.0	3/25/04	7:05	B.Herford	8260B	3097
n-Propylbenzene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
Styrene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
Tetrachloroethene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
Trichloroethene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	3/25/04	7:05	B.Herford	8260B	3097
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
Vinyl chloride	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
Bromodichloromethane	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097
Trichlorofluoromethane	ND	ug/L	1.00	1.0	3/25/04	7:05	B.Herford	8260B	3097

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	950. ml	1.0 ml	3/19/04		K. Turner	3510C

Surrogate	% Recovery	Target Range

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39800
Sample ID: VEW-4
Project: N62467-02-G-0352/CTO #1

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	95.	71. - 128.
VOA Surr Toluene-d8	95.	77. - 119.
VOA Surr, 4-BFB	91.	79. - 123.
VOA Surr, DBFM	107.	78. - 124.
BNA Surr-Nitrobenzene-d5	118.	25. - 121.
BNA Surr-2-Fluorobiphenyl	83.	33. - 111.
BNA Surr-Terphenyl-d14	70.	11. - 139.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Project: N62467-02-G-0352/CTO #1
Project Name: FIRE FIGHTER TRAINING
Sampler: KB/LW

Lab Number: 04-A39801
Sample ID: VEW-5
Sample Type: Water
Site ID:

Date Collected: 3/17/04
Time Collected: 14:59
Date Received: 3/18/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.11	1.0	3/30/04	2:28	D. Harris	8270C-SIM	8793
Acenaphthylene	ND	ug/L	0.11	1.0	3/30/04	2:28	D. Harris	8270C-SIM	8793
Anthracene	ND	ug/L	0.11	1.0	3/30/04	2:28	D. Harris	8270C-SIM	8793
Benzo(a)anthracene	ND	ug/L	0.11	1.0	3/30/04	2:28	D. Harris	8270C-SIM	8793
Benzo(a)pyrene	ND	ug/L	0.11	1.0	3/30/04	2:28	D. Harris	8270C-SIM	8793
Benzo(b)fluoranthene	ND	ug/L	0.11	1.0	3/30/04	2:28	D. Harris	8270C-SIM	8793
Benzo(g,h,i)perylene	ND	ug/L	0.11	1.0	3/30/04	2:28	D. Harris	8270C-SIM	8793
Benzo(k)fluoranthene	ND	ug/L	0.11	1.0	3/30/04	2:28	D. Harris	8270C-SIM	8793
Chrysene	ND	ug/L	0.11	1.0	3/30/04	2:28	D. Harris	8270C-SIM	8793
Dibenz(a,h)anthracene	ND	ug/L	0.11	1.0	3/30/04	2:28	D. Harris	8270C-SIM	8793
Fluoranthene	ND	ug/L	0.11	1.0	3/30/04	2:28	D. Harris	8270C-SIM	8793
Fluorene	ND	ug/L	0.11	1.0	3/30/04	2:28	D. Harris	8270C-SIM	8793
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1.0	3/30/04	2:28	D. Harris	8270C-SIM	8793
2-Methylnaphthalene	ND	ug/L	0.11	1.0	3/30/04	2:28	D. Harris	8270C-SIM	8793
Naphthalene	ND	ug/L	0.11	1.0	3/30/04	2:28	D. Harris	8270C-SIM	8793
Phenanthrene	ND	ug/L	0.11	1.0	3/30/04	2:28	D. Harris	8270C-SIM	8793
Pyrene	ND	ug/L	0.11	1.0	3/30/04	2:28	D. Harris	8270C-SIM	8793
1-Methylnaphthalene	ND	ug/L	0.11	1.0	3/30/04	2:28	D. Harris	8270C-SIM	8793
VOLATILE ORGANICS									
Benzene	ND	ug/L	1.0	1.0	3/25/04	7:33	B.Herford	8260B	3097
Toluene	ND	ug/L	1.0	1.0	3/25/04	7:33	B.Herford	8260B	3097
Ethylbenzene	ND	ug/L	1.0	1.0	3/25/04	7:33	B.Herford	8260B	3097
Xylenes (Total)	ND	ug/L	1.0	1.0	3/25/04	7:33	B.Herford	8260B	3097
1,2-Dibromoethane	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
Naphthalene	ND	ug/L	5.00	1.0	3/25/04	7:33	B.Herford	8260B	3097

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39801
Sample ID: VEW-5
Project: N62467-02-G-0352/CTO #1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Acetone	ND	ug/L	25.0	1.0	3/25/04	7:33	B.Herford	8260B	3097
Bromobenzene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
Bromochloromethane	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
Bromoform	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
Bromomethane	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
2-Butanone	ND	ug/L	25.0	1.0	3/25/04	7:33	B.Herford	8260B	3097
n-Butylbenzene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
sec-Butylbenzene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
tert-Butylbenzene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
Carbon disulfide	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
Carbon tetrachloride	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
Chlorobenzene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
Chloroethane	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
Chloroform	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
Chloromethane	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
2-Chlorotoluene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
4-Chlorotoluene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
Dibromochloromethane	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
Dibromomethane	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
1,1-Dichloroethane	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
1,2-Dichloroethane	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
1,1-Dichloroethene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
1,2-Dichloropropane	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
1,3-Dichloropropane	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
2,2-Dichloropropane	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
1,1-Dichloropropene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
Hexachlorobutadiene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39801
Sample ID: VEW-5
Project: N62467-02-G-0352/CTO #1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2-Hexanone	ND	ug/L	5.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
Isopropylbenzene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
p-Isopropyltoluene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
Methylene chloride	ND	ug/L	2.50	1.0	3/25/04	7:33	B.Herford	8260B	3097
n-Propylbenzene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
Styrene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
Tetrachloroethene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
Trichloroethene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	3/25/04	7:33	B.Herford	8260B	3097
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
Vinyl chloride	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
Bromodichloromethane	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097
Trichlorofluoromethane	ND	ug/L	1.00	1.0	3/25/04	7:33	B.Herford	8260B	3097

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	900. ml	1.0 ml	3/19/04		K. Turner	3510C

Surrogate	% Recovery	Target Range

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39801
Sample ID: VEW-5
Project: N62467-02-G-0352/CTO #1

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	98.	71. - 128.
VOA Surr Toluene-d8	96.	77. - 119.
VOA Surr, 4-BFB	92.	79. - 123.
VOA Surr, DBFM	107.	78. - 124.
BNA Surr-Nitrobenzene-d5	108.	25. - 121.
BNA Surr-2-Fluorobiphenyl	74.	33. - 111.
BNA Surr-Terphenyl-d14	65.	11. - 139.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Project: N62467-02-G-0352/CTO #1
Project Name: FIRE FIGHTER TRAINING
Sampler: KB/LW

Lab Number: 04-A39802
Sample ID: TRIP BLANK-2
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 3/18/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	ND	ug/L	1.0	1.0	3/25/04	8:01	B.Herford	8260B	3097
Toluene	4.8	ug/L	1.0	1.0	3/25/04	8:01	B.Herford	8260B	3097
Ethylbenzene	ND	ug/L	1.0	1.0	3/25/04	8:01	B.Herford	8260B	3097
Xylenes (Total)	ND	ug/L	1.0	1.0	3/25/04	8:01	B.Herford	8260B	3097
1,2-Dibromoethane	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
Naphthalene	ND	ug/L	5.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
Acetone	ND	ug/L	25.0	1.0	3/25/04	8:01	B.Herford	8260B	3097
Bromobenzene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
Bromochloromethane	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
Bromoform	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
Bromomethane	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
2-Butanone	ND	ug/L	25.0	1.0	3/25/04	8:01	B.Herford	8260B	3097
n-Butylbenzene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
sec-Butylbenzene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
tert-Butylbenzene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
Carbon disulfide	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
Carbon tetrachloride	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
Chlorobenzene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
Chloroethane	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
Chloroform	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
Chloromethane	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
2-Chlorotoluene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
4-Chlorotoluene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
Dibromochloromethane	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
Dibromomethane	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39802
Sample ID: TRIP BLANK-2
Project: N62467-02-G-0352/CTO #1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
1,1-Dichloroethane	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
1,2-Dichloroethane	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
1,1-Dichloroethene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
1,2-Dichloropropane	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
1,3-Dichloropropane	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
2,2-Dichloropropane	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
1,1-Dichloropropene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
Hexachlorobutadiene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
2-Hexanone	ND	ug/L	5.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
Isopropylbenzene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
p-Isopropyltoluene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
Methylene chloride	ND	ug/L	2.50	1.0	3/25/04	8:01	B.Herford	8260B	3097
n-Propylbenzene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
Styrene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
Tetrachloroethene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
Trichloroethene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	3/25/04	8:01	B.Herford	8260B	3097
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
Vinyl chloride	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097
Bromodichloromethane	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39802
Sample ID: TRIP BLANK-2
Project: N62467-02-G-0352/CTO #1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	ug/L	1.00	1.0	3/25/04	8:01	B.Herford	8260B	3097

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	95.	71. - 128.
VOA Surr Toluene-d8	95.	77. - 119.
VOA Surr, 4-BFB	91.	79. - 123.
VOA Surr, DBFM	108.	78. - 124.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Project: N62467-02-G-0352/CTO #1
Project Name: FIRE FIGHTER TRAINING
Sampler: KB/LW

Lab Number: 04-A39803
Sample ID: EB-DAYTANK1
Sample Type: Water
Site ID:

Date Collected: 3/17/04
Time Collected: 16:20
Date Received: 3/18/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	3/30/04	2:58	D. Harris	8270C-SIM	8793
Acenaphthylene	ND	ug/L	0.10	1.0	3/30/04	2:58	D. Harris	8270C-SIM	8793
Anthracene	ND	ug/L	0.10	1.0	3/30/04	2:58	D. Harris	8270C-SIM	8793
Benzo(a)anthracene	ND	ug/L	0.10	1.0	3/30/04	2:58	D. Harris	8270C-SIM	8793
Benzo(a)pyrene	ND	ug/L	0.10	1.0	3/30/04	2:58	D. Harris	8270C-SIM	8793
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	3/30/04	2:58	D. Harris	8270C-SIM	8793
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	3/30/04	2:58	D. Harris	8270C-SIM	8793
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	3/30/04	2:58	D. Harris	8270C-SIM	8793
Chrysene	ND	ug/L	0.10	1.0	3/30/04	2:58	D. Harris	8270C-SIM	8793
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	3/30/04	2:58	D. Harris	8270C-SIM	8793
Fluoranthene	ND	ug/L	0.10	1.0	3/30/04	2:58	D. Harris	8270C-SIM	8793
Fluorene	ND	ug/L	0.10	1.0	3/30/04	2:58	D. Harris	8270C-SIM	8793
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	3/30/04	2:58	D. Harris	8270C-SIM	8793
2-Methylnaphthalene	ND	ug/L	0.10	1.0	3/30/04	2:58	D. Harris	8270C-SIM	8793
Naphthalene	ND	ug/L	0.10	1.0	3/30/04	2:58	D. Harris	8270C-SIM	8793
Phenanthrene	ND	ug/L	0.10	1.0	3/30/04	2:58	D. Harris	8270C-SIM	8793
Pyrene	ND	ug/L	0.10	1.0	3/30/04	2:58	D. Harris	8270C-SIM	8793
1-Methylnaphthalene	ND	ug/L	0.10	1.0	3/30/04	2:58	D. Harris	8270C-SIM	8793
VOLATILE ORGANICS									
Benzene	ND	ug/L	1.0	1.0	3/25/04	8:29	B.Herford	8260B	3097
Toluene	ND	ug/L	1.0	1.0	3/25/04	8:29	B.Herford	8260B	3097
Ethylbenzene	ND	ug/L	1.0	1.0	3/25/04	8:29	B.Herford	8260B	3097
Xylenes (Total)	ND	ug/L	1.0	1.0	3/25/04	8:29	B.Herford	8260B	3097
1,2-Dibromoethane	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
Naphthalene	ND	ug/L	5.00	1.0	3/25/04	8:29	B.Herford	8260B	3097

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39803
Sample ID: EB-DAYTANK1
Project: N62467-02-G-0352/CTO #1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Acetone	ND	ug/L	25.0	1.0	3/25/04	8:29	B.Herford	8260B	3097
Bromobenzene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
Bromochloromethane	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
Bromoform	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
Bromomethane	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
2-Butanone	ND	ug/L	25.0	1.0	3/25/04	8:29	B.Herford	8260B	3097
n-Butylbenzene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
sec-Butylbenzene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
tert-Butylbenzene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
Carbon disulfide	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
Carbon tetrachloride	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
Chlorobenzene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
Chloroethane	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
Chloroform	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
Chloromethane	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
2-Chlorotoluene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
4-Chlorotoluene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
Dibromochloromethane	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
Dibromomethane	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
1,1-Dichloroethane	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
1,2-Dichloroethane	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
1,1-Dichloroethene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
1,2-Dichloropropane	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
1,3-Dichloropropane	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
2,2-Dichloropropane	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
1,1-Dichloropropene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
Hexachlorobutadiene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39803
Sample ID: EB-DAYTANK1
Project: N62467-02-G-0352/CTO #1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2-Hexanone	ND	ug/L	5.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
Isopropylbenzene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
p-Isopropyltoluene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
Methylene chloride	ND	ug/L	2.50	1.0	3/25/04	8:29	B.Herford	8260B	3097
n-Propylbenzene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
Styrene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
Tetrachloroethene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
Trichloroethene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	3/25/04	8:29	B.Herford	8260B	3097
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
Vinyl chloride	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
Bromodichloromethane	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097
Trichlorofluoromethane	ND	ug/L	1.00	1.0	3/25/04	8:29	B.Herford	8260B	3097

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	950. ml	1.0 ml	3/19/04		K. Turner	3510C

Surrogate	% Recovery	Target Range

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 04-A39803
Sample ID: EB-DAYTANK1
Project: N62467-02-G-0352/CTO #1

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	96.	71. - 128.
VOA Surr Toluene-d8	96.	77. - 119.
VOA Surr, 4-BFB	91.	79. - 123.
VOA Surr, DBFM	109.	78. - 124.
BNA Surr-Nitrobenzene-d5	109.	25. - 121.
BNA Surr-2-Fluorobiphenyl	76.	33. - 111.
BNA Surr-Terphenyl-d14	68.	11. - 139.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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PROJECT QUALITY CONTROL DATA
Project Number: N62467-02-G-0352/CTO #1
Project Name: FIRE FIGHTER TRAINING
Page: 1
Laboratory Receipt Date: 3/18/04

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
TRPH	mg/l	< 0.100	0.325	0.430	76	41. - 101.	8344	blank
VOA PARAMETERS								
Benzene	mg/l	< 0.0010	0.0482	0.0500	96	73 - 135	378	04-A39833
Benzene	mg/l	< 0.0010	0.0481	0.0500	96	73 - 135	3094	04-A39491
Benzene	mg/l	0.0024	0.0518	0.0500	99	73 - 135	3097	04-A39788
Chlorobenzene	mg/l	< 0.00100	0.0508	0.0500	102	77 - 130	378	04-A39833
Chlorobenzene	mg/l	< 0.00100	0.0499	0.0500	100	77 - 130	3094	04-A39491
Chlorobenzene	mg/l	0.00340	0.0542	0.0500	102	77 - 130	3097	04-A39788
1,1-Dichloroethene	mg/l	< 0.00100	0.0496	0.0500	99	71 - 143	378	04-A39833
1,1-Dichloroethene	mg/l	0.0834	0.137	0.0500	107	71 - 143	3094	04-A39491
1,1-Dichloroethene	mg/l	< 0.00100	0.0512	0.0500	102	71 - 143	3097	04-A39788
Toluene	mg/l	< 0.0010	0.0492	0.0500	98	69 - 139	378	04-A39833
Toluene	mg/l	< 0.0010	0.0481	0.0500	96	69 - 139	3094	04-A39491
Toluene	mg/l	< 0.0010	0.0509	0.0500	102	69 - 139	3097	04-A39788
Trichloroethene	mg/l	< 0.00100	0.0603	0.0500	121	72 - 141	378	04-A39833
Trichloroethene	mg/l	< 0.00100	0.0617	0.0500	123	72 - 141	3094	04-A39491
Trichloroethene	mg/l	< 0.00100	0.0486	0.0500	97	72 - 141	3097	04-A39788
Tetrachloroethene	mg/l	< 0.00100	0.0536	0.0500	107	68 - 140	378	04-A39833
Tetrachloroethene	mg/l	< 0.00100	0.0527	0.0500	105	68 - 140	3094	04-A39491
Tetrachloroethene	mg/l	< 0.00100	0.0533	0.0500	107	68 - 140	3097	04-A39788
VOA Surr 1,2-DCA-d4	% Rec				94	71 - 128	378	
VOA Surr 1,2-DCA-d4	% Rec				94	71 - 128	3094	
VOA Surr 1,2-DCA-d4	% Rec				95	71 - 128	3097	
VOA Surr 1,2-DCA-d4	% Rec				91	71 - 128	4477	
VOA Surr Toluene-d8	% Rec				97	77 - 119	378	
VOA Surr Toluene-d8	% Rec				97	77 - 119	3094	

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: N62467-02-G-0352/CTO #1
Project Name: FIRE FIGHTER TRAINING
Page: 2
Laboratory Receipt Date: 3/18/04

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
VOA Surr Toluene-d8	% Rec				100	77 - 119	3097	
VOA Surr Toluene-d8	% Rec				98	77 - 119	4477	
VOA Surr, 4-BFB	% Rec				89	79 - 123	378	
VOA Surr, 4-BFB	% Rec				90	79 - 123	3094	
VOA Surr, 4-BFB	% Rec				89	79 - 123	3097	
VOA Surr, 4-BFB	% Rec				95	79 - 123	4477	
VOA Surr, DBFM	% Rec				109	78 - 124	378	
VOA Surr, DBFM	% Rec				108	78 - 124	3094	
VOA Surr, DBFM	% Rec				110	78 - 124	3097	
VOA Surr, DBFM	% Rec				103	78 - 124	4477	
EXTRACTABLE PARAMETERS								
Acenaphthene	mg/l	< 0.00010	0.00131	0.00100	131#	46 - 125	8793	Blank
Pyrene	mg/l	< 0.00010	0.00157	0.00100	157#	47 - 152	8793	Blank
BNA Surr-Nitrobenzene-d5	% Rec				85	25 - 121	8793	
BNA Surr-2-Fluorobiphenyl	% Rec				93	33 - 111	8793	
BNA Surr-Terphenyl-d14	% Rec				112	11 - 139	8793	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
VOA PARAMETERS						
Benzene	mg/l	0.0482	0.0507	5.06	21.	378
Benzene	mg/l	0.0481	0.0480	0.21	21.	3094
Benzene	mg/l	0.0518	0.0508	1.95	21.	3097
Chlorobenzene	mg/l	0.0508	0.0518	1.95	19.	378
Chlorobenzene	mg/l	0.0499	0.0508	1.79	19.	3094

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
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Project Name: FIRE FIGHTER TRAINING
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Laboratory Receipt Date: 3/18/04

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Chlorobenzene	mg/l	0.0542	0.0552	1.83	19.	3097
1,1-Dichloroethene	mg/l	0.0496	0.0520	4.72	21.	378
1,1-Dichloroethene	mg/l	0.137	0.133	2.96	21.	3094
1,1-Dichloroethene	mg/l	0.0512	0.0490	4.39	21.	3097
Toluene	mg/l	0.0492	0.0516	4.76	24.	378
Toluene	mg/l	0.0481	0.0489	1.65	24.	3094
Toluene	mg/l	0.0509	0.0505	0.79	24.	3097
Trichloroethene	mg/l	0.0603	0.0593	1.67	21.	378
Trichloroethene	mg/l	0.0617	0.0571	7.74	21.	3094
Trichloroethene	mg/l	0.0486	0.0578	17.29	21.	3097
Tetrachloroethene	mg/l	0.0536	0.0566	5.44	21.	378
Tetrachloroethene	mg/l	0.0527	0.0530	0.57	21.	3094
Tetrachloroethene	mg/l	0.0533	0.0544	2.04	21.	3097
VOA Surr 1,2-DCA-d4	% Rec		96.			378
VOA Surr 1,2-DCA-d4	% Rec		93.			3094
VOA Surr 1,2-DCA-d4	% Rec		92.			3097
VOA Surr 1,2-DCA-d4	% Rec		93.			4477
VOA Surr Toluene-d8	% Rec		100.			378
VOA Surr Toluene-d8	% Rec		96.			3094
VOA Surr Toluene-d8	% Rec		100.			3097
VOA Surr Toluene-d8	% Rec		98.			4477
VOA Surr, 4-BFB	% Rec		89.			378
VOA Surr, 4-BFB	% Rec		89.			3094
VOA Surr, 4-BFB	% Rec		89.			3097
VOA Surr, 4-BFB	% Rec		97.			4477
VOA Surr, DBFM	% Rec		111.			378
VOA Surr, DBFM	% Rec		104.			3094
VOA Surr, DBFM	% Rec		108.			3097
VOA Surr, DBFM	% Rec		107.			4477

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: N62467-02-G-0352/CTO #1
Project Name: FIRE FIGHTER TRAINING
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EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00131	0.00122	7.11	51.	8793
Pyrene	mg/l	0.00157	0.00153	2.58	47.	8793
BNA Surr-Nitrobenzene-d5	% Rec		79.			8793
BNA Surr-2-Fluorobiphenyl	% Rec		85.			8793
BNA Surr-Terphenyl-d14	% Rec		108.			8793

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
TRPH	mg/l	0.430	0.357	83	55 - 118	8344
VOA PARAMETERS						
Acetone	mg/l	0.250	0.199	80	55 - 144	378
Acetone	mg/l	0.250	0.198	79	55 - 144	378
Acetone	mg/l	0.250	0.197	79	55 - 144	3094
Acetone	mg/l	0.250	0.206	82	55 - 144	3097
Benzene	mg/l	0.0500	0.0491	98	81 - 121	378
Benzene	mg/l	0.0500	0.0479	96	81 - 121	378
Benzene	mg/l	0.0500	0.0487	97	81 - 121	3094
Benzene	mg/l	0.0500	0.0493	99	81 - 121	3097
Bromobenzene	mg/l	0.0500	0.0457	91	72 - 129	378
Bromobenzene	mg/l	0.0500	0.0445	89	72 - 129	378
Bromobenzene	mg/l	0.0500	0.0448	90	72 - 129	3094
Bromobenzene	mg/l	0.0500	0.0441	88	72 - 129	3097
Bromochloromethane	mg/l	0.0500	0.0523	105	75 - 137	378
Bromochloromethane	mg/l	0.0500	0.0487	97	75 - 137	378
Bromochloromethane	mg/l	0.0500	0.0495	99	75 - 137	3094
Bromochloromethane	mg/l	0.0500	0.0486	97	75 - 137	3097
Bromoform	mg/l	0.0500	0.0464	93	54 - 127	378
Bromoform	mg/l	0.0500	0.0427	85	54 - 127	378
Bromoform	mg/l	0.0500	0.0414	83	54 - 127	3094

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: N62467-02-G-0352/CTO #1
Project Name: FIRE FIGHTER TRAINING
Page: 5
Laboratory Receipt Date: 3/18/04

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Bromoform	mg/l	0.0500	0.0403	81	54 - 127	3097
Bromomethane	mg/l	0.0500	0.0452	90	54 - 160	378
Bromomethane	mg/l	0.0500	0.0395	79	54 - 160	378
Bromomethane	mg/l	0.0500	0.0383	77	54 - 160	3094
Bromomethane	mg/l	0.0500	0.0380	76	54 - 160	3097
2-Butanone	mg/l	0.250	0.227	91	62 - 146	378
2-Butanone	mg/l	0.250	0.210	84	62 - 146	378
2-Butanone	mg/l	0.250	0.244	98	62 - 146	3094
2-Butanone	mg/l	0.250	0.220	88	62 - 146	3097
n-Butylbenzene	mg/l	0.0500	0.0536	107	68 - 139	378
n-Butylbenzene	mg/l	0.0500	0.0500	100	68 - 139	378
n-Butylbenzene	mg/l	0.0500	0.0520	104	68 - 139	3094
n-Butylbenzene	mg/l	0.0500	0.0494	99	68 - 139	3097
sec-Butylbenzene	mg/l	0.0500	0.0536	107	75 - 135	378
sec-Butylbenzene	mg/l	0.0500	0.0507	101	75 - 135	378
sec-Butylbenzene	mg/l	0.0500	0.0520	104	75 - 135	3094
sec-Butylbenzene	mg/l	0.0500	0.0512	102	75 - 135	3097
tert-Butylbenzene	mg/l	0.0500	0.0524	105	73 - 135	378
tert-Butylbenzene	mg/l	0.0500	0.0500	100	73 - 135	378
tert-Butylbenzene	mg/l	0.0500	0.0510	102	73 - 135	3094
tert-Butylbenzene	mg/l	0.0500	0.0518	104	73 - 135	3097
Carbon disulfide	mg/l	0.0500	0.0531	106	71 - 139	378
Carbon disulfide	mg/l	0.0500	0.0492	98	71 - 139	378
Carbon disulfide	mg/l	0.0500	0.0493	99	71 - 139	3094
Carbon disulfide	mg/l	0.0500	0.0501	100	71 - 139	3097
Carbon tetrachloride	mg/l	0.0500	0.0515	103	70 - 131	378
Carbon tetrachloride	mg/l	0.0500	0.0477	95	70 - 131	378
Carbon tetrachloride	mg/l	0.0500	0.0508	102	70 - 131	3094
Carbon tetrachloride	mg/l	0.0500	0.0488	98	70 - 131	3097
Chlorobenzene	mg/l	0.0500	0.0509	102	87 - 120	378
Chlorobenzene	mg/l	0.0500	0.0511	102	87 - 120	378

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: N62467-02-G-0352/CTO #1
Project Name: FIRE FIGHTER TRAINING
Page: 6
Laboratory Receipt Date: 3/18/04

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Chlorobenzene	mg/l	0.0500	0.0506	101	87 - 120	3094
Chlorobenzene	mg/l	0.0500	0.0507	101	87 - 120	3097
Chloroethane	mg/l	0.0500	0.0472	94	65 - 145	378
Chloroethane	mg/l	0.0500	0.0452	90	65 - 145	378
Chloroethane	mg/l	0.0500	0.0434	87	65 - 145	3094
Chloroethane	mg/l	0.0500	0.0442	88	65 - 145	3097
Chloroform	mg/l	0.0500	0.0511	102	77 - 128	378
Chloroform	mg/l	0.0500	0.0464	93	77 - 128	378
Chloroform	mg/l	0.0500	0.0485	97	77 - 128	3094
Chloroform	mg/l	0.0500	0.0472	94	77 - 128	3097
Chloromethane	mg/l	0.0500	0.0426	85	46 - 147	378
Chloromethane	mg/l	0.0500	0.0407	81	46 - 147	378
Chloromethane	mg/l	0.0500	0.0368	74	46 - 147	3094
Chloromethane	mg/l	0.0500	0.0382	76	46 - 147	3097
2-Chlorotoluene	mg/l	0.0500	0.0487	97	78 - 128	378
2-Chlorotoluene	mg/l	0.0500	0.0482	96	78 - 128	378
2-Chlorotoluene	mg/l	0.0500	0.0475	95	78 - 128	3094
2-Chlorotoluene	mg/l	0.0500	0.0474	95	78 - 128	3097
4-Chlorotoluene	mg/l	0.0500	0.0491	98	80 - 130	378
4-Chlorotoluene	mg/l	0.0500	0.0506	101	80 - 130	378
4-Chlorotoluene	mg/l	0.0500	0.0499	100	80 - 130	3094
4-Chlorotoluene	mg/l	0.0500	0.0467	93	80 - 130	3097
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0441	88	55 - 135	378
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0417	83	55 - 135	378
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0452	90	55 - 135	3094
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0427	85	55 - 135	3097
Dibromochloromethane	mg/l	0.0500	0.0485	97	63 - 132	378
Dibromochloromethane	mg/l	0.0500	0.0453	91	63 - 132	378
Dibromochloromethane	mg/l	0.0500	0.0458	92	63 - 132	3094
Dibromochloromethane	mg/l	0.0500	0.0442	88	63 - 132	3097
1,2-Dibromoethane	mg/l	0.0500	0.0537	107	77 - 136	378

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1,2-Dibromoethane	mg/l	0.0500	0.0529	106	77 - 136	378
1,2-Dibromoethane	mg/l	0.0500	0.0531	106	77 - 136	3094
1,2-Dibromoethane	mg/l	0.0500	0.0530	106	77 - 136	3097
Dibromomethane	mg/l	0.0500	0.0531	106	75 - 133	378
Dibromomethane	mg/l	0.0500	0.0614	123	75 - 133	378
Dibromomethane	mg/l	0.0500	0.0485	97	75 - 133	3094
Dibromomethane	mg/l	0.0500	0.0523	105	75 - 133	3097
1,2-Dichlorobenzene	mg/l	0.0500	0.0502	100	83 - 126	378
1,2-Dichlorobenzene	mg/l	0.0500	0.0494	99	83 - 126	378
1,2-Dichlorobenzene	mg/l	0.0500	0.0496	99	83 - 126	3094
1,2-Dichlorobenzene	mg/l	0.0500	0.0493	99	83 - 126	3097
1,3-Dichlorobenzene	mg/l	0.0500	0.0505	101	85 - 124	378
1,3-Dichlorobenzene	mg/l	0.0500	0.0492	98	85 - 124	378
1,3-Dichlorobenzene	mg/l	0.0500	0.0496	99	85 - 124	3094
1,3-Dichlorobenzene	mg/l	0.0500	0.0489	98	85 - 124	3097
1,4-Dichlorobenzene	mg/l	0.0500	0.0505	101	83 - 122	378
1,4-Dichlorobenzene	mg/l	0.0500	0.0497	99	83 - 122	378
1,4-Dichlorobenzene	mg/l	0.0500	0.0490	98	83 - 122	3094
1,4-Dichlorobenzene	mg/l	0.0500	0.0491	98	83 - 122	3097
Dichlorodifluoromethane	mg/l	0.0500	0.0465	93	52 - 159	378
Dichlorodifluoromethane	mg/l	0.0500	0.0452	90	52 - 159	378
Dichlorodifluoromethane	mg/l	0.0500	0.0436	87	52 - 159	3094
Dichlorodifluoromethane	mg/l	0.0500	0.0436	87	52 - 159	3097
1,1-Dichloroethane	mg/l	0.0500	0.0504	101	76 - 129	378
1,1-Dichloroethane	mg/l	0.0500	0.0456	91	76 - 129	378
1,1-Dichloroethane	mg/l	0.0500	0.0487	97	76 - 129	3094
1,1-Dichloroethane	mg/l	0.0500	0.0476	95	76 - 129	3097
1,2-Dichloroethane	mg/l	0.0500	0.0476	95	70 - 136	378
1,2-Dichloroethane	mg/l	0.0500	0.0466	93	70 - 136	378
1,2-Dichloroethane	mg/l	0.0500	0.0466	93	70 - 136	3094
1,2-Dichloroethane	mg/l	0.0500	0.0467	93	70 - 136	3097

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Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,1-Dichloroethene	mg/l	0.0500	0.0518	104	77 - 133	378
1,1-Dichloroethene	mg/l	0.0500	0.0496	99	77 - 133	378
1,1-Dichloroethene	mg/l	0.0500	0.0501	100	77 - 133	3094
1,1-Dichloroethene	mg/l	0.0500	0.0515	103	77 - 133	3097
cis-1,2-Dichloroethene	mg/l	0.0500	0.0488	98	76 - 129	378
cis-1,2-Dichloroethene	mg/l	0.0500	0.0443	89	76 - 129	378
cis-1,2-Dichloroethene	mg/l	0.0500	0.0483	97	76 - 129	3094
cis-1,2-Dichloroethene	mg/l	0.0500	0.0445	89	76 - 129	3097
trans-1,2-Dichloroethene	mg/l	0.0500	0.0503	101	73 - 135	378
trans-1,2-Dichloroethene	mg/l	0.0500	0.0470	94	73 - 135	378
trans-1,2-Dichloroethene	mg/l	0.0500	0.0495	99	73 - 135	3094
trans-1,2-Dichloroethene	mg/l	0.0500	0.0479	96	73 - 135	3097
1,2-Dichloropropane	mg/l	0.0500	0.0484	97	74 - 130	378
1,2-Dichloropropane	mg/l	0.0500	0.0569	114	74 - 130	378
1,2-Dichloropropane	mg/l	0.0500	0.0453	91	74 - 130	3094
1,2-Dichloropropane	mg/l	0.0500	0.0468	94	74 - 130	3097
1,3-Dichloropropane	mg/l	0.0500	0.0511	102	79 - 129	378
1,3-Dichloropropane	mg/l	0.0500	0.0507	101	79 - 129	378
1,3-Dichloropropane	mg/l	0.0500	0.0509	102	79 - 129	3094
1,3-Dichloropropane	mg/l	0.0500	0.0500	100	79 - 129	3097
2,2-Dichloropropane	mg/l	0.0500	0.0507	101	39 - 151	378
2,2-Dichloropropane	mg/l	0.0500	0.0351	70	39 - 151	378
2,2-Dichloropropane	mg/l	0.0500	0.0464	93	39 - 151	3094
2,2-Dichloropropane	mg/l	0.0500	0.0329	66	39 - 151	3097
1,1-Dichloropropene	mg/l	0.0500	0.0483	97	80 - 129	378
1,1-Dichloropropene	mg/l	0.0500	0.0451	90	80 - 129	378
1,1-Dichloropropene	mg/l	0.0500	0.0487	97	80 - 129	3094
1,1-Dichloropropene	mg/l	0.0500	0.0466	93	80 - 129	3097
cis-1,3-Dichloropropene	mg/l	0.0500	0.0506	101	59 - 136	378
cis-1,3-Dichloropropene	mg/l	0.0500	0.0465	93	59 - 136	378
cis-1,3-Dichloropropene	mg/l	0.0500	0.0499	100	59 - 136	3094

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Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
cis-1,3-Dichloropropene	mg/l	0.0500	0.0468	94	59 - 136	3097
trans-1,3-Dichloropropene	mg/l	0.0500	0.0453	91	59 - 135	378
trans-1,3-Dichloropropene	mg/l	0.0500	0.0411	82	59 - 135	378
trans-1,3-Dichloropropene	mg/l	0.0500	0.0426	85	59 - 135	3094
trans-1,3-Dichloropropene	mg/l	0.0500	0.0410	82	59 - 135	3097
Ethylbenzene	mg/l	0.0500	0.0529	106	78 - 126	378
Ethylbenzene	mg/l	0.0500	0.0522	104	78 - 126	378
Ethylbenzene	mg/l	0.0500	0.0520	104	78 - 126	3094
Ethylbenzene	mg/l	0.0500	0.0524	105	78 - 126	3097
Hexachlorobutadiene	mg/l	0.0500	0.0512	102	60 - 142	378
Hexachlorobutadiene	mg/l	0.0500	0.0474	95	60 - 142	378
Hexachlorobutadiene	mg/l	0.0500	0.0485	97	60 - 142	3094
Hexachlorobutadiene	mg/l	0.0500	0.0466	93	60 - 142	3097
2-Hexanone	mg/l	0.250	0.226	90	61 - 148	378
2-Hexanone	mg/l	0.250	0.217	87	61 - 148	378
2-Hexanone	mg/l	0.250	0.243	97	61 - 148	3094
2-Hexanone	mg/l	0.250	0.232	93	61 - 148	3097
Isopropylbenzene	mg/l	0.0500	0.0553	111	74 - 134	378
Isopropylbenzene	mg/l	0.0500	0.0550	110	74 - 134	378
Isopropylbenzene	mg/l	0.0500	0.0548	110	74 - 134	3094
Isopropylbenzene	mg/l	0.0500	0.0554	111	74 - 134	3097
p-Isopropyltoluene	mg/l	0.0500	0.0519	104	79 - 130	378
p-Isopropyltoluene	mg/l	0.0500	0.0498	100	79 - 130	378
p-Isopropyltoluene	mg/l	0.0500	0.0504	101	79 - 130	3094
p-Isopropyltoluene	mg/l	0.0500	0.0495	99	79 - 130	3097
4-Methyl-2-pentanone	mg/l	0.250	0.251	100	59 - 147	378
4-Methyl-2-pentanone	mg/l	0.250	0.243	97	59 - 147	378
4-Methyl-2-pentanone	mg/l	0.250	0.283	113	59 - 147	3094
4-Methyl-2-pentanone	mg/l	0.250	0.255	102	59 - 147	3097
Methylene chloride	mg/l	0.0500	0.0511	102	68 - 132	378
Methylene chloride	mg/l	0.0500	0.0504	101	68 - 132	378

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Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Methylene chloride	mg/l	0.0500	0.0482	96	68 - 132	3094
Methylene chloride	mg/l	0.0500	0.0505	101	68 - 132	3097
Naphthalene	mg/l	0.0500	0.0539	108	53 - 152	378
Naphthalene	mg/l	0.0500	0.0514	103	53 - 152	378
Naphthalene	mg/l	0.0500	0.0550	110	53 - 152	3094
Naphthalene	mg/l	0.0500	0.0533	107	53 - 152	3097
Naphthalene	mg/l	0.0500	0.0550	110	53 - 152	4477
n-Propylbenzene	mg/l	0.0500	0.0514	103	73 - 134	378
n-Propylbenzene	mg/l	0.0500	0.0486	97	73 - 134	378
n-Propylbenzene	mg/l	0.0500	0.0500	100	73 - 134	3094
n-Propylbenzene	mg/l	0.0500	0.0489	98	73 - 134	3097
Styrene	mg/l	0.0500	0.0556	111	78 - 134	378
Styrene	mg/l	0.0500	0.0552	110	78 - 134	378
Styrene	mg/l	0.0500	0.0544	109	78 - 134	3094
Styrene	mg/l	0.0500	0.0554	111	78 - 134	3097
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0547	109	75 - 131	378
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0549	110	75 - 131	378
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0538	108	75 - 131	3094
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0537	107	75 - 131	3097
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0475	95	62 - 142	378
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0414	83	62 - 142	378
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0475	95	62 - 142	3094
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0426	85	62 - 142	3097
Tetrachloroethene	mg/l	0.0500	0.0532	106	77 - 129	378
Tetrachloroethene	mg/l	0.0500	0.0527	105	77 - 129	378
Tetrachloroethene	mg/l	0.0500	0.0545	109	77 - 129	3094
Tetrachloroethene	mg/l	0.0500	0.0531	106	77 - 129	3097
Toluene	mg/l	0.0500	0.0490	98	77 - 125	378
Toluene	mg/l	0.0500	0.0485	97	77 - 125	378
Toluene	mg/l	0.0500	0.0499	100	77 - 125	3094
Toluene	mg/l	0.0500	0.0494	99	77 - 125	3097

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Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0519	104	54 - 155	378
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0503	101	54 - 155	378
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0514	103	54 - 155	3094
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0504	101	54 - 155	3097
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0508	102	61 - 145	378
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0482	96	61 - 145	378
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0494	99	61 - 145	3094
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0475	95	61 - 145	3097
1,1,1-Trichloroethane	mg/l	0.0500	0.0510	102	66 - 139	378
1,1,1-Trichloroethane	mg/l	0.0500	0.0457	91	66 - 139	378
1,1,1-Trichloroethane	mg/l	0.0500	0.0500	100	66 - 139	3094
1,1,1-Trichloroethane	mg/l	0.0500	0.0470	94	66 - 139	3097
1,1,2-Trichloroethane	mg/l	0.0500	0.0524	105	77 - 132	378
1,1,2-Trichloroethane	mg/l	0.0500	0.0529	106	77 - 132	378
1,1,2-Trichloroethane	mg/l	0.0500	0.0541	108	77 - 132	3094
1,1,2-Trichloroethane	mg/l	0.0500	0.0529	106	77 - 132	3097
Trichloroethene	mg/l	0.0500	0.0596	119	80 - 132	378
Trichloroethene	mg/l	0.0500	0.0640	128	80 - 132	378
Trichloroethene	mg/l	0.0500	0.0594	119	80 - 132	3094
Trichloroethene	mg/l	0.0500	0.0549	110	80 - 132	3097
1,2,3-Trichloropropane	mg/l	0.0500	0.0430	86	54 - 144	378
1,2,3-Trichloropropane	mg/l	0.0500	0.0577	115	54 - 144	378
1,2,3-Trichloropropane	mg/l	0.0500	0.0469	94	54 - 144	3094
1,2,3-Trichloropropane	mg/l	0.0500	0.0548	110	54 - 144	3097
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0537	107	74 - 130	378
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0521	104	74 - 130	378
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0509	102	74 - 130	3094
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0519	104	74 - 130	3097
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0522	104	77 - 131	378
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0502	100	77 - 131	378
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0510	102	77 - 131	3094

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Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0499	100	77 - 131	3097
Vinyl chloride	mg/l	0.0500	0.0471	94	69 - 139	378
Vinyl chloride	mg/l	0.0500	0.0461	92	69 - 139	378
Vinyl chloride	mg/l	0.0500	0.0453	91	69 - 139	3094
Vinyl chloride	mg/l	0.0500	0.0459	92	69 - 139	3097
Xylenes (Total)	mg/l	0.150	0.163	109	78 - 127	378
Xylenes (Total)	mg/l	0.150	0.163	109	78 - 127	378
Xylenes (Total)	mg/l	0.150	0.159	106	78 - 127	3094
Xylenes (Total)	mg/l	0.150	0.159	106	78 - 127	3097
Bromodichloromethane	mg/l	0.0500	0.0530	106	67 - 135	378
Bromodichloromethane	mg/l	0.0500	0.0509	102	67 - 135	378
Bromodichloromethane	mg/l	0.0500	0.0485	97	67 - 135	3094
Bromodichloromethane	mg/l	0.0500	0.0512	102	67 - 135	3097
Trichlorofluoromethane	mg/l	0.0500	0.0498	100	64 - 143	378
Trichlorofluoromethane	mg/l	0.0500	0.0465	93	64 - 143	378
Trichlorofluoromethane	mg/l	0.0500	0.0481	96	64 - 143	3094
Trichlorofluoromethane	mg/l	0.0500	0.0487	97	64 - 143	3097
VOA Surr 1,2-DCA-d4	% Rec			94	71 - 128	378
VOA Surr 1,2-DCA-d4	% Rec			92	71 - 128	378
VOA Surr 1,2-DCA-d4	% Rec			93	71 - 128	3094
VOA Surr 1,2-DCA-d4	% Rec			92	71 - 128	3097
VOA Surr 1,2-DCA-d4	% Rec			94	71 - 128	4477
VOA Surr Toluene-d8	% Rec			98	77 - 119	378
VOA Surr Toluene-d8	% Rec			98	77 - 119	378
VOA Surr Toluene-d8	% Rec			100	77 - 119	3094
VOA Surr Toluene-d8	% Rec			98	77 - 119	3097
VOA Surr Toluene-d8	% Rec			100	77 - 119	4477
VOA Surr, 4-BFB	% Rec			91	79 - 123	378
VOA Surr, 4-BFB	% Rec			90	79 - 123	378
VOA Surr, 4-BFB	% Rec			89	79 - 123	3094
VOA Surr, 4-BFB	% Rec			90	79 - 123	3097

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Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
VOA Surr, 4-BFB	% Rec			89	79 - 123	4477
VOA Surr, DBFM	% Rec			113	78 - 124	378
VOA Surr, DBFM	% Rec			105	78 - 124	378
VOA Surr, DBFM	% Rec			109	78 - 124	3094
VOA Surr, DBFM	% Rec			107	78 - 124	3097
VOA Surr, DBFM	% Rec			109	78 - 124	4477
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00100	0.00121	121	46 - 125	8793
Acenaphthylene	mg/l	0.00100	0.00116	116	41 - 116	8793
Anthracene	mg/l	0.00100	0.00129	129 #	52 - 123	8793
Benzo(a)anthracene	mg/l	0.00100	0.00152	152 #	51 - 137	8793
Benzo(a)pyrene	mg/l	0.00100	0.00148	148 #	37 - 129	8793
Benzo(b)fluoranthene	mg/l	0.00100	0.00150	150 #	42 - 145	8793
Benzo(g,h,i)perylene	mg/l	0.00100	0.00147	147 #	37 - 142	8793
Benzo(k)fluoranthene	mg/l	0.00100	0.00152	152	51 - 157	8793
Chrysene	mg/l	0.00100	0.00153	153 #	60 - 142	8793
Dibenz(a,h)anthracene	mg/l	0.00100	0.00139	139 #	30 - 137	8793
Fluoranthene	mg/l	0.00100	0.00129	129	51 - 139	8793
Fluorene	mg/l	0.00100	0.00121	121	47 - 126	8793
Indeno(1,2,3-cd)pyrene	mg/l	0.00100	0.00137	137 #	37 - 135	8793
2-Methylnaphthalene	mg/l	0.00100	0.00103	103	29 - 119	8793
Naphthalene	mg/l	0.00100	0.00116	116	37 - 127	8793
Phenanthrene	mg/l	0.00100	0.00125	125	52 - 141	8793
Pyrene	mg/l	0.00100	0.00148	148	47 - 152	8793
1-Methylnaphthalene	mg/l	0.00100	0.00099	99	29 - 129	8793
BNA Surr-Nitrobenzene-d5	% Rec			79	25 - 121	8793
BNA Surr-2-Fluorobiphenyl	% Rec			85	33 - 111	8793
BNA Surr-Terphenyl-d14	% Rec			107	11 - 139	8793

Project QC continued . . .

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Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
TRPH	< 0.100	mg/l	8344	3/19/04	16:35
TPH Surr., O-Terphenyl	116.	% Recovery	8344	3/19/04	16:35
TPH Surr, C-35	98.	% Recovery	8344	3/19/04	16:35
VOA PARAMETERS					
Acetone	< 0.00470	mg/l	378	3/22/04	13:03
Acetone	< 0.00470	mg/l	378	3/23/04	0:50
Acetone	< 0.00470	mg/l	3094	3/24/04	14:03
Acetone	< 0.00470	mg/l	3097	3/25/04	1:24
Benzene	< 0.0005	mg/l	378	3/22/04	13:03
Benzene	< 0.0005	mg/l	378	3/23/04	0:50
Benzene	< 0.0005	mg/l	3094	3/24/04	14:03
Benzene	< 0.0005	mg/l	3097	3/25/04	1:24
Bromobenzene	< 0.00030	mg/l	378	3/22/04	13:03
Bromobenzene	< 0.00030	mg/l	378	3/23/04	0:50
Bromobenzene	< 0.00030	mg/l	3094	3/24/04	14:03
Bromobenzene	< 0.00030	mg/l	3097	3/25/04	1:24
Bromochloromethane	< 0.00030	mg/l	378	3/22/04	13:03
Bromochloromethane	< 0.00030	mg/l	378	3/23/04	0:50
Bromochloromethane	< 0.00030	mg/l	3094	3/24/04	14:03

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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Bromochloromethane	< 0.00030	mg/l	3097	3/25/04	1:24
Bromoform	< 0.00060	mg/l	378	3/22/04	13:03
Bromoform	< 0.00060	mg/l	378	3/23/04	0:50
Bromoform	< 0.00060	mg/l	3094	3/24/04	14:03
Bromoform	< 0.00060	mg/l	3097	3/25/04	1:24
Bromomethane	< 0.00060	mg/l	378	3/22/04	13:03
Bromomethane	< 0.00060	mg/l	378	3/23/04	0:50
Bromomethane	< 0.00060	mg/l	3094	3/24/04	14:03
Bromomethane	< 0.00060	mg/l	3097	3/25/04	1:24
2-Butanone	< 0.00310	mg/l	378	3/22/04	13:03
2-Butanone	< 0.00310	mg/l	378	3/23/04	0:50
2-Butanone	< 0.00310	mg/l	3094	3/24/04	14:03
2-Butanone	< 0.00310	mg/l	3097	3/25/04	1:24
n-Butylbenzene	< 0.00010	mg/l	378	3/22/04	13:03
n-Butylbenzene	< 0.00010	mg/l	378	3/23/04	0:50
n-Butylbenzene	< 0.00010	mg/l	3094	3/24/04	14:03
n-Butylbenzene	< 0.00010	mg/l	3097	3/25/04	1:24
sec-Butylbenzene	< 0.00030	mg/l	378	3/22/04	13:03
sec-Butylbenzene	< 0.00030	mg/l	378	3/23/04	0:50
sec-Butylbenzene	< 0.00030	mg/l	3094	3/24/04	14:03
sec-Butylbenzene	< 0.00030	mg/l	3097	3/25/04	1:24
tert-Butylbenzene	< 0.00030	mg/l	378	3/22/04	13:03
tert-Butylbenzene	< 0.00030	mg/l	378	3/23/04	0:50
tert-Butylbenzene	< 0.00030	mg/l	3094	3/24/04	14:03
tert-Butylbenzene	< 0.00030	mg/l	3097	3/25/04	1:24
Carbon disulfide	< 0.00020	mg/l	378	3/22/04	13:03
Carbon disulfide	< 0.00020	mg/l	378	3/23/04	0:50
Carbon disulfide	< 0.00020	mg/l	3094	3/24/04	14:03
Carbon disulfide	< 0.00020	mg/l	3097	3/25/04	1:24
Carbon tetrachloride	< 0.00040	mg/l	378	3/22/04	13:03
Carbon tetrachloride	< 0.00040	mg/l	378	3/23/04	0:50

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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Carbon tetrachloride	< 0.00040	mg/l	3094	3/24/04	14:03
Carbon tetrachloride	< 0.00040	mg/l	3097	3/25/04	1:24
Chlorobenzene	< 0.00020	mg/l	378	3/22/04	13:03
Chlorobenzene	< 0.00020	mg/l	378	3/23/04	0:50
Chlorobenzene	< 0.00020	mg/l	3094	3/24/04	14:03
Chlorobenzene	< 0.00020	mg/l	3097	3/25/04	1:24
Chloroethane	< 0.00100	mg/l	378	3/22/04	13:03
Chloroethane	< 0.00100	mg/l	378	3/23/04	0:50
Chloroethane	< 0.00100	mg/l	3094	3/24/04	14:03
Chloroethane	< 0.00100	mg/l	3097	3/25/04	1:24
Chloroform	< 0.00080	mg/l	378	3/22/04	13:03
Chloroform	< 0.00080	mg/l	378	3/23/04	0:50
Chloroform	< 0.00080	mg/l	3094	3/24/04	14:03
Chloroform	< 0.00080	mg/l	3097	3/25/04	1:24
Chloromethane	< 0.00070	mg/l	378	3/22/04	13:03
Chloromethane	< 0.00070	mg/l	378	3/23/04	0:50
Chloromethane	< 0.00070	mg/l	3094	3/24/04	14:03
Chloromethane	< 0.00070	mg/l	3097	3/25/04	1:24
2-Chlorotoluene	< 0.00040	mg/l	378	3/22/04	13:03
2-Chlorotoluene	< 0.00040	mg/l	378	3/23/04	0:50
2-Chlorotoluene	< 0.00040	mg/l	3094	3/24/04	14:03
2-Chlorotoluene	< 0.00040	mg/l	3097	3/25/04	1:24
4-Chlorotoluene	< 0.00050	mg/l	378	3/22/04	13:03
4-Chlorotoluene	< 0.00050	mg/l	378	3/23/04	0:50
4-Chlorotoluene	< 0.00050	mg/l	3094	3/24/04	14:03
4-Chlorotoluene	< 0.00050	mg/l	3097	3/25/04	1:24
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	378	3/22/04	13:03
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	378	3/23/04	0:50
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	3094	3/24/04	14:03
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	3097	3/25/04	1:24
Dibromochloromethane	< 0.00050	mg/l	378	3/22/04	13:03

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Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Dibromochloromethane	< 0.00050	mg/l	378	3/23/04	0:50
Dibromochloromethane	< 0.00050	mg/l	3094	3/24/04	14:03
Dibromochloromethane	< 0.00050	mg/l	3097	3/25/04	1:24
1,2-Dibromoethane	< 0.00040	mg/l	378	3/22/04	13:03
1,2-Dibromoethane	< 0.00040	mg/l	378	3/23/04	0:50
1,2-Dibromoethane	< 0.00040	mg/l	3094	3/24/04	14:03
1,2-Dibromoethane	< 0.00040	mg/l	3097	3/25/04	1:24
Dibromomethane	< 0.00090	mg/l	378	3/22/04	13:03
Dibromomethane	< 0.00090	mg/l	378	3/23/04	0:50
Dibromomethane	< 0.00090	mg/l	3094	3/24/04	14:03
Dibromomethane	< 0.00090	mg/l	3097	3/25/04	1:24
1,2-Dichlorobenzene	< 0.00020	mg/l	378	3/22/04	13:03
1,2-Dichlorobenzene	< 0.00020	mg/l	378	3/23/04	0:50
1,2-Dichlorobenzene	< 0.00020	mg/l	3094	3/24/04	14:03
1,2-Dichlorobenzene	< 0.00020	mg/l	3097	3/25/04	1:24
1,3-Dichlorobenzene	< 0.00030	mg/l	378	3/22/04	13:03
1,3-Dichlorobenzene	< 0.00030	mg/l	378	3/23/04	0:50
1,3-Dichlorobenzene	< 0.00030	mg/l	3094	3/24/04	14:03
1,3-Dichlorobenzene	< 0.00030	mg/l	3097	3/25/04	1:24
1,4-Dichlorobenzene	< 0.00040	mg/l	378	3/22/04	13:03
1,4-Dichlorobenzene	< 0.00040	mg/l	378	3/23/04	0:50
1,4-Dichlorobenzene	< 0.00040	mg/l	3094	3/24/04	14:03
1,4-Dichlorobenzene	< 0.00040	mg/l	3097	3/25/04	1:24
Dichlorodifluoromethane	< 0.00050	mg/l	378	3/22/04	13:03
Dichlorodifluoromethane	< 0.00050	mg/l	378	3/23/04	0:50
Dichlorodifluoromethane	< 0.00050	mg/l	3094	3/24/04	14:03
Dichlorodifluoromethane	< 0.00050	mg/l	3097	3/25/04	1:24
1,1-Dichloroethane	< 0.00020	mg/l	378	3/22/04	13:03
1,1-Dichloroethane	< 0.00020	mg/l	378	3/23/04	0:50
1,1-Dichloroethane	< 0.00020	mg/l	3094	3/24/04	14:03
1,1-Dichloroethane	< 0.00020	mg/l	3097	3/25/04	1:24

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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,2-Dichloroethane	< 0.00060	mg/l	378	3/22/04	13:03
1,2-Dichloroethane	< 0.00060	mg/l	378	3/23/04	0:50
1,2-Dichloroethane	< 0.00060	mg/l	3094	3/24/04	14:03
1,2-Dichloroethane	< 0.00060	mg/l	3097	3/25/04	1:24
1,1-Dichloroethene	< 0.00060	mg/l	378	3/22/04	13:03
1,1-Dichloroethene	< 0.00060	mg/l	378	3/23/04	0:50
1,1-Dichloroethene	< 0.00060	mg/l	3094	3/24/04	14:03
1,1-Dichloroethene	< 0.00060	mg/l	3097	3/25/04	1:24
cis-1,2-Dichloroethene	< 0.00060	mg/l	378	3/22/04	13:03
cis-1,2-Dichloroethene	< 0.00060	mg/l	378	3/23/04	0:50
cis-1,2-Dichloroethene	< 0.00060	mg/l	3094	3/24/04	14:03
cis-1,2-Dichloroethene	< 0.00060	mg/l	3097	3/25/04	1:24
trans-1,2-Dichloroethene	< 0.00050	mg/l	378	3/22/04	13:03
trans-1,2-Dichloroethene	< 0.00050	mg/l	378	3/23/04	0:50
trans-1,2-Dichloroethene	< 0.00050	mg/l	3094	3/24/04	14:03
trans-1,2-Dichloroethene	< 0.00050	mg/l	3097	3/25/04	1:24
1,2-Dichloropropane	< 0.00040	mg/l	378	3/22/04	13:03
1,2-Dichloropropane	< 0.00040	mg/l	378	3/23/04	0:50
1,2-Dichloropropane	< 0.00040	mg/l	3094	3/24/04	14:03
1,2-Dichloropropane	< 0.00040	mg/l	3097	3/25/04	1:24
1,3-Dichloropropane	< 0.00040	mg/l	378	3/22/04	13:03
1,3-Dichloropropane	< 0.00040	mg/l	378	3/23/04	0:50
1,3-Dichloropropane	< 0.00040	mg/l	3094	3/24/04	14:03
1,3-Dichloropropane	< 0.00040	mg/l	3097	3/25/04	1:24
2,2-Dichloropropane	< 0.00040	mg/l	378	3/22/04	13:03
2,2-Dichloropropane	< 0.00040	mg/l	378	3/23/04	0:50
2,2-Dichloropropane	< 0.00040	mg/l	3094	3/24/04	14:03
2,2-Dichloropropane	< 0.00040	mg/l	3097	3/25/04	1:24
1,1-Dichloropropene	< 0.00050	mg/l	378	3/22/04	13:03
1,1-Dichloropropene	< 0.00050	mg/l	378	3/23/04	0:50
1,1-Dichloropropene	< 0.00050	mg/l	3094	3/24/04	14:03

Project QC continued . . .

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Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,1-Dichloropropene	< 0.00050	mg/l	3097	3/25/04	1:24
cis-1,3-Dichloropropene	< 0.00030	mg/l	378	3/22/04	13:03
cis-1,3-Dichloropropene	< 0.00030	mg/l	378	3/23/04	0:50
cis-1,3-Dichloropropene	< 0.00030	mg/l	3094	3/24/04	14:03
cis-1,3-Dichloropropene	< 0.00030	mg/l	3097	3/25/04	1:24
trans-1,3-Dichloropropene	< 0.00050	mg/l	378	3/22/04	13:03
trans-1,3-Dichloropropene	< 0.00050	mg/l	378	3/23/04	0:50
trans-1,3-Dichloropropene	< 0.00050	mg/l	3094	3/24/04	14:03
trans-1,3-Dichloropropene	< 0.00050	mg/l	3097	3/25/04	1:24
Ethylbenzene	< 0.0003	mg/l	378	3/22/04	13:03
Ethylbenzene	< 0.0003	mg/l	378	3/23/04	0:50
Ethylbenzene	< 0.0003	mg/l	3094	3/24/04	14:03
Ethylbenzene	< 0.0003	mg/l	3097	3/25/04	1:24
Hexachlorobutadiene	< 0.00080	mg/l	378	3/22/04	13:03
Hexachlorobutadiene	< 0.00080	mg/l	378	3/23/04	0:50
Hexachlorobutadiene	< 0.00080	mg/l	3094	3/24/04	14:03
Hexachlorobutadiene	< 0.00080	mg/l	3097	3/25/04	1:24
2-Hexanone	< 0.00420	mg/l	378	3/22/04	13:03
2-Hexanone	< 0.00420	mg/l	378	3/23/04	0:50
2-Hexanone	< 0.00420	mg/l	3094	3/24/04	14:03
2-Hexanone	< 0.00420	mg/l	3097	3/25/04	1:24
Isopropylbenzene	< 0.00040	mg/l	378	3/22/04	13:03
Isopropylbenzene	< 0.00040	mg/l	378	3/23/04	0:50
Isopropylbenzene	< 0.00040	mg/l	3094	3/24/04	14:03
Isopropylbenzene	< 0.00040	mg/l	3097	3/25/04	1:24
p-Isopropyltoluene	< 0.00060	mg/l	378	3/22/04	13:03
p-Isopropyltoluene	< 0.00060	mg/l	378	3/23/04	0:50
p-Isopropyltoluene	< 0.00060	mg/l	3094	3/24/04	14:03
p-Isopropyltoluene	< 0.00060	mg/l	3097	3/25/04	1:24
4-Methyl-2-pentanone	< 0.00490	mg/l	378	3/22/04	13:03
4-Methyl-2-pentanone	< 0.00490	mg/l	378	3/23/04	0:50

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Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
4-Methyl-2-pentanone	< 0.00490	mg/l	3094	3/24/04	14:03
4-Methyl-2-pentanone	< 0.00490	mg/l	3097	3/25/04	1:24
Methylene chloride	< 0.00240	mg/l	378	3/22/04	13:03
Methylene chloride	< 0.00240	mg/l	378	3/23/04	0:50
Methylene chloride	< 0.00240	mg/l	3094	3/24/04	14:03
Methylene chloride	< 0.00240	mg/l	3097	3/25/04	1:24
Naphthalene	< 0.00120	mg/l	378	3/22/04	13:03
Naphthalene	< 0.00120	mg/l	378	3/23/04	0:50
Naphthalene	< 0.00120	mg/l	3094	3/24/04	14:03
Naphthalene	< 0.00120	mg/l	3097	3/25/04	1:24
Naphthalene	< 0.00120	mg/l	4477	3/25/04	14:09
n-Propylbenzene	< 0.00030	mg/l	378	3/22/04	13:03
n-Propylbenzene	< 0.00030	mg/l	378	3/23/04	0:50
n-Propylbenzene	< 0.00030	mg/l	3094	3/24/04	14:03
n-Propylbenzene	< 0.00030	mg/l	3097	3/25/04	1:24
Styrene	< 0.00040	mg/l	378	3/22/04	13:03
Styrene	< 0.00040	mg/l	378	3/23/04	0:50
Styrene	< 0.00040	mg/l	3094	3/24/04	14:03
Styrene	< 0.00040	mg/l	3097	3/25/04	1:24
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	378	3/22/04	13:03
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	378	3/23/04	0:50
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	3094	3/24/04	14:03
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	3097	3/25/04	1:24
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	378	3/22/04	13:03
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	378	3/23/04	0:50
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	3094	3/24/04	14:03
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	3097	3/25/04	1:24
Tetrachloroethene	< 0.00040	mg/l	378	3/22/04	13:03
Tetrachloroethene	< 0.00040	mg/l	378	3/23/04	0:50
Tetrachloroethene	< 0.00040	mg/l	3094	3/24/04	14:03
Tetrachloroethene	< 0.00040	mg/l	3097	3/25/04	1:24

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Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Toluene	< 0.0006	mg/l	378	3/22/04	13:03
Toluene	< 0.0006	mg/l	378	3/23/04	0:50
Toluene	< 0.0006	mg/l	3094	3/24/04	14:03
Toluene	< 0.0006	mg/l	3097	3/25/04	1:24
1,2,3-Trichlorobenzene	< 0.00100	mg/l	378	3/22/04	13:03
1,2,3-Trichlorobenzene	< 0.00100	mg/l	378	3/23/04	0:50
1,2,3-Trichlorobenzene	< 0.00100	mg/l	3094	3/24/04	14:03
1,2,3-Trichlorobenzene	< 0.00100	mg/l	3097	3/25/04	1:24
1,2,4-Trichlorobenzene	< 0.00060	mg/l	378	3/22/04	13:03
1,2,4-Trichlorobenzene	< 0.00060	mg/l	378	3/23/04	0:50
1,2,4-Trichlorobenzene	< 0.00060	mg/l	3094	3/24/04	14:03
1,2,4-Trichlorobenzene	< 0.00060	mg/l	3097	3/25/04	1:24
1,1,1-Trichloroethane	< 0.00070	mg/l	378	3/22/04	13:03
1,1,1-Trichloroethane	< 0.00070	mg/l	378	3/23/04	0:50
1,1,1-Trichloroethane	< 0.00070	mg/l	3094	3/24/04	14:03
1,1,1-Trichloroethane	< 0.00070	mg/l	3097	3/25/04	1:24
1,1,2-Trichloroethane	< 0.00040	mg/l	378	3/22/04	13:03
1,1,2-Trichloroethane	< 0.00040	mg/l	378	3/23/04	0:50
1,1,2-Trichloroethane	< 0.00040	mg/l	3094	3/24/04	14:03
1,1,2-Trichloroethane	< 0.00040	mg/l	3097	3/25/04	1:24
Trichloroethene	< 0.00040	mg/l	378	3/22/04	13:03
Trichloroethene	< 0.00040	mg/l	378	3/23/04	0:50
Trichloroethene	< 0.00040	mg/l	3094	3/24/04	14:03
Trichloroethene	< 0.00040	mg/l	3097	3/25/04	1:24
1,2,3-Trichloropropane	< 0.00060	mg/l	378	3/22/04	13:03
1,2,3-Trichloropropane	< 0.00060	mg/l	378	3/23/04	0:50
1,2,3-Trichloropropane	< 0.00060	mg/l	3094	3/24/04	14:03
1,2,3-Trichloropropane	< 0.00060	mg/l	3097	3/25/04	1:24
1,2,4-Trimethylbenzene	< 0.0003	mg/l	378	3/22/04	13:03
1,2,4-Trimethylbenzene	< 0.0003	mg/l	378	3/23/04	0:50
1,2,4-Trimethylbenzene	< 0.0003	mg/l	3094	3/24/04	14:03

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: N62467-02-G-0352/CTO #1
Project Name: FIRE FIGHTER TRAINING
Page: 22
Laboratory Receipt Date: 3/18/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,2,4-Trimethylbenzene	< 0.0003	mg/l	3097	3/25/04	1:24
1,3,5-Trimethylbenzene	< 0.00100	mg/l	378	3/22/04	13:03
1,3,5-Trimethylbenzene	< 0.00100	mg/l	378	3/23/04	0:50
1,3,5-Trimethylbenzene	< 0.00100	mg/l	3094	3/24/04	14:03
1,3,5-Trimethylbenzene	< 0.00100	mg/l	3097	3/25/04	1:24
Vinyl chloride	< 0.00050	mg/l	378	3/22/04	13:03
Vinyl chloride	< 0.00050	mg/l	378	3/23/04	0:50
Vinyl chloride	< 0.00050	mg/l	3094	3/24/04	14:03
Vinyl chloride	< 0.00050	mg/l	3097	3/25/04	1:24
Xylenes (Total)	< 0.0009	mg/l	378	3/22/04	13:03
Xylenes (Total)	< 0.0009	mg/l	378	3/23/04	0:50
Xylenes (Total)	< 0.0009	mg/l	3094	3/24/04	14:03
Xylenes (Total)	< 0.0009	mg/l	3097	3/25/04	1:24
Bromodichloromethane	< 0.00030	mg/l	378	3/22/04	13:03
Bromodichloromethane	< 0.00030	mg/l	378	3/23/04	0:50
Bromodichloromethane	< 0.00030	mg/l	3094	3/24/04	14:03
Bromodichloromethane	< 0.00030	mg/l	3097	3/25/04	1:24
Trichlorofluoromethane	< 0.00040	mg/l	378	3/22/04	13:03
Trichlorofluoromethane	< 0.00040	mg/l	378	3/23/04	0:50
Trichlorofluoromethane	< 0.00040	mg/l	3094	3/24/04	14:03
Trichlorofluoromethane	< 0.00040	mg/l	3097	3/25/04	1:24
VOA Surr 1,2-DCA-d4	98.	% Rec	378	3/22/04	13:03
VOA Surr 1,2-DCA-d4	94.	% Rec	378	3/23/04	0:50
VOA Surr 1,2-DCA-d4	99.	% Rec	3094	3/24/04	14:03
VOA Surr 1,2-DCA-d4	94.	% Rec	3097	3/25/04	1:24
VOA Surr 1,2-DCA-d4	98.	% Rec	4477	3/25/04	14:09
VOA Surr Toluene-d8	98.	% Rec	378	3/22/04	13:03
VOA Surr Toluene-d8	96.	% Rec	378	3/23/04	0:50
VOA Surr Toluene-d8	96.	% Rec	3094	3/24/04	14:03
VOA Surr Toluene-d8	97.	% Rec	3097	3/25/04	1:24
VOA Surr Toluene-d8	97.	% Rec	4477	3/25/04	14:09

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: N62467-02-G-0352/CTO #1
Project Name: FIRE FIGHTER TRAINING
Page: 23
Laboratory Receipt Date: 3/18/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
VOA Surr, 4-BFB	93.	% Rec	378	3/22/04	13:03
VOA Surr, 4-BFB	92.	% Rec	378	3/23/04	0:50
VOA Surr, 4-BFB	93.	% Rec	3094	3/24/04	14:03
VOA Surr, 4-BFB	92.	% Rec	3097	3/25/04	1:24
VOA Surr, 4-BFB	92.	% Rec	4477	3/25/04	14:09
VOA Surr, DBFM	107.	% Rec	378	3/22/04	13:03
VOA Surr, DBFM	108.	% Rec	378	3/23/04	0:50
VOA Surr, DBFM	111.	% Rec	3094	3/24/04	14:03
VOA Surr, DBFM	107.	% Rec	3097	3/25/04	1:24
VOA Surr, DBFM	108.	% Rec	4477	3/25/04	14:09
EXTRACTABLE PARAMETERS					
Acenaphthene	< 0.00010	mg/l	8793	3/27/04	18:15
Acenaphthylene	< 0.00010	mg/l	8793	3/27/04	18:15
Anthracene	< 0.00010	mg/l	8793	3/27/04	18:15
Benzo(a)anthracene	< 0.00010	mg/l	8793	3/27/04	18:15
Benzo(a)pyrene	< 0.00010	mg/l	8793	3/27/04	18:15
Benzo(b)fluoranthene	< 0.00010	mg/l	8793	3/27/04	18:15
Benzo(g,h,i)perylene	< 0.00010	mg/l	8793	3/27/04	18:15
Benzo(k)fluoranthene	< 0.00010	mg/l	8793	3/27/04	18:15
Chrysene	< 0.00010	mg/l	8793	3/27/04	18:15
Dibenz(a,h)anthracene	< 0.00010	mg/l	8793	3/27/04	18:15
Fluoranthene	< 0.00010	mg/l	8793	3/27/04	18:15
Fluorene	< 0.00010	mg/l	8793	3/27/04	18:15
Indeno(1,2,3-cd)pyrene	< 0.00010	mg/l	8793	3/27/04	18:15
2-Methylnaphthalene	< 0.00010	mg/l	8793	3/27/04	18:15
Naphthalene	< 0.00010	mg/l	8793	3/27/04	18:15
Phenanthrene	< 0.00010	mg/l	8793	3/27/04	18:15
Pyrene	< 0.00010	mg/l	8793	3/27/04	18:15
1-Methylnaphthalene	< 0.00010	mg/l	8793	3/27/04	18:15

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: N62467-02-G-0352/CTO #1
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BNA Surr-Nitrobenzene-d5	81.	% Rec	8793	3/27/04	18:15
BNA Surr-2-Fluorobiphenyl	87.	% Rec	8793	3/27/04	18:15
BNA Surr-Terphenyl-d14	113.	% Rec	8793	3/27/04	18:15

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 368161

APPENDIX B

1st Quarter 2004 Groundwater Sampling Logs

GROUNDWATER SAMPLING LOG

TERRAINE Environmental Consulting

Project Information

Project No: 04-41001/5	Project Name: Day Tank 1 - Cecil Field LTM/RAO	
Technician 1:	Technician 2: Larry Wolski	Weather: Sunny
Sampling ID: 04-41001/5:CEF-293-09:3/17/04		
Notes:		

Well Information

Well ID: **CEF-293-09**	Sampling Date: **3/17/2004**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 77.36	Northing: 0	Easting: 0
Static Depth to Water (ft): 9.84	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 12.00
pH Meter: Accumet	Cond. Meter: YSI-33	DO Meter: YSI-51B	Turb. Meter: Hach 2100P
Purge Start: 14:15	Purge End: 14:23	Total Volume Purged (gal): 1.20	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Color	Odor
14:18	10.01	0.75	0.00	2.00	21.10	283.6	5.55	0.0	4.47	clear	none
14:21	10.02	1.00	0.00	1.40	21.10	280.9	5.43	0.0	4.07		
14:23	10.01	1.25	0.12	1.00	21.00	279.5	5.40	0.0	4.02		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	3/17/2004	DO (mg/L):	1.00	DO:	0.00	Sulfate:	0.00
Sample Start Time:	14:23	Temp (*C):	21.10	CO2:	0.00	Sulfide:	0.00
Sample End Time:	14:40	SEC (uS/cm):	279.80	Alkalinity:	0.00		
Field Filtered:	☐	pH:	5.40	Ferrous Iron:	0.00		
Duplicate:	☐	ORP (mV):	0.00	H2S:	0.00		
		Turb (NTU):	3.70	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials
"VOCs, PAHs"	

GROUNDWATER SAMPLING LOG

TERRAINE Environmental Consulting

Project Information

Project No: 04-41001/5	Project Name: Day Tank 1 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2:	Weather: Sunny
Sampling ID: 04-41001/5:CEF-293-22:3/17/04		
Notes:		

Well Information

Well ID: **CEF-293-22**	Sampling Date: **3/17/2004**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 75.95	Northing: 0	Easting: 0
Static Depth to Water (ft): 8.80	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 10.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 15:25	Purge End: 15:51	Total Volume Purged (gal): 1.50	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Color	Odor
15:40	9.50	1.00	0.00	0.00	22.89	447.0	5.65	97.0	206.00	brown	none
15:46	9.50	1.25	0.00	0.00	23.03	465.0	5.64	86.0	265.00		
15:49	9.50	1.50	0.08	0.00	23.04	479.0	5.69	78.0	283.00		

Sampling Data

Sample Information

Sample Date:	3/17/2004
Sample Start Time:	15:51
Sample End Time:	16:05
Field Filtered:	☐
Duplicate:	☐

Final Purge Readings

DO (mg/L):	0.00
Temp (*C):	23.01
SEC (uS/cm):	481.00
pH:	5.71
ORP (mV):	74.00
Turb (NTU):	291.00

Field Test Kit Readings (mg/L)

DO:	0.00	Sulfate:	0.00
CO2:	0.00	Sulfide:	0.00
Alkalinity:	0.00		
Ferrous Iron:	0.00		
H2S:	0.00		
Manganese:	0.00		

Lab Analyses/Methods:

"VOCs, PAHs"

Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE Environmental Consulting

Project Information

Project No: 04-41001/5	Project Name: Day Tank 1 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2:	Weather: Sunny
Sampling ID: 04-41001/5:VEW-03:3/17/04		
Notes:		

Well Information

Well ID: **VEW-03**	Sampling Date: **3/17/2004**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 75.28	Northing: 0	Easting: 0
Static Depth to Water (ft): 8.02	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 10.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 14:05	Purge End: 14:16	Total Volume Purged (gal): 1.50	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Color	Odor
14:11	8.10	1.00	0.00	0.00	21.50	401.0	5.40	185.0	2.39	clear	none
14:14	8.10	1.25	0.00	0.00	21.62	400.0	5.41	179.0	1.56		
14:16	8.10	1.50	0.12	0.00	21.77	398.0	5.39	177.0	1.48		

Sampling Data

Sample Information

Sample Date:	3/17/2004
Sample Start Time:	14:16
Sample End Time:	14:26
Field Filtered:	☐
Duplicate:	☐

Final Purge Readings

DO (mg/L):	0.00
Temp (*C):	21.82
SEC (uS/cm):	398.00
pH:	5.40
ORP (mV):	176.00
Turb (NTU):	0.63

Field Test Kit Readings (mg/L)

DO:	0.00	Sulfate:	0.00
CO2:	0.00	Sulfide:	0.00
Alkalinity:	0.00		
Ferrous Iron:	0.00		
H2S:	0.00		
Manganese:	0.00		

Lab Analyses/Methods:

"VOCs, PAHs"

Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE Environmental Consulting

Project Information

Project No: 04-41001/5	Project Name: Day Tank 1 - Cecil Field LTM/RAO	
Technician 1:	Technician 2: Larry Wolski	Weather: Sunny
Sampling ID: 04-41001/5:VEW-04:3/17/04		
Notes:		

Well Information

Well ID: **VEW-04**	Sampling Date: **3/17/2004**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 75.54	Northing: 0	Easting: 0
Static Depth to Water (ft): 8.40	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 11.00
pH Meter: Accumet	Cond. Meter: YSI-33	DO Meter: YSI-51B	Turb. Meter: Hach 2100P
Purge Start: 15:40	Purge End: 16:29	Total Volume Purged (gal): 2.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Color	Odor
15:45	8.65	1.25	0.00	1.00	21.30	172.7	5.50	0.0	17.50	clear	none
15:49	8.65	2.00	0.00	0.70	21.30	171.8	5.48	0.0	17.10		
15:52	8.66	2.25	0.12	0.70	21.30	170.8	5.48	0.0	11.50		
16:25	8.40	1.50	0.00	0.00	22.57	317.0	5.18	199.0	16.10	clear	none
16:27	8.40	1.75	0.00	0.00	22.67	317.0	5.19	199.0	7.54		
16:29	8.30	2.00	0.12	0.00	22.73	315.0	5.16	200.0	5.52		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	3/17/2004	DO (mg/L):	0.80	DO:	0.00	Sulfate:	0.00
Sample Start Time:	16:29	Temp (*C):	21.30	CO2:	0.00	Sulfide:	0.00
Sample End Time:	16:40	SEC (uS/cm):	172.40	Alkalinity:	0.00		
Field Filtered:	☐	pH:	5.48	Ferrous Iron:	0.00		
Duplicate:	☐	ORP (mV):	0.00	H2S:	0.00		
		Turb (NTU):	9.97	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials
"VOCs, PAHs"	

GROUNDWATER SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 04-41001/5	Project Name: Day Tank 1 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2:	Weather: Sunny
Sampling ID: 04-41001/5:VEW-04:3/17/04		
Notes:		

Well Information

Well ID: **VEW-04**	Sampling Date: **3/17/2004**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 75.54	Northing: 0	Easting: 0
Static Depth to Water (ft): 8.30	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 11.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 15:40	Purge End: 16:29	Total Volume Purged (gal): 2.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Color	Odor
15:45	8.65	1.25	0.00	1.00	21.30	172.7	5.50	0.0	17.50	clear	none
15:49	8.65	2.00	0.00	0.70	21.30	171.8	5.48	0.0	17.10		
15:52	8.66	2.25	0.12	0.70	21.30	170.8	5.48	0.0	11.50		
16:25	8.40	1.50	0.00	0.00	22.57	317.0	5.18	199.0	16.10	clear	none
16:27	8.40	1.75	0.00	0.00	22.67	317.0	5.19	199.0	7.54		
16:29	8.30	2.00	0.12	0.00	22.73	315.0	5.16	200.0	5.52		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	3/17/2004	DO (mg/L):	0.00	DO:	0.00	Sulfate:	0.00
Sample Start Time:	16:29	Temp (*C):	22.73	CO2:	0.00	Sulfide:	0.00
Sample End Time:	16:45	SEC (uS/cm):	316.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	5.17	Ferrous Iron:	0.00		
Duplicate:	☐	ORP (mV):	200.00	H2S:	0.00		
		Turb (NTU):	4.48	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials
"VOCs, PAHs"	

GROUNDWATER SAMPLING LOG

TERRAINE Environmental Consulting

Project Information

Project No: 04-41001/5	Project Name: Day Tank 1 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2:	Weather: Sunny
Sampling ID: 04-41001/5:VEW-05:3/17/04		
Notes:		

Well Information

Well ID: **VEW-05**	Sampling Date: **3/17/2004**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 74.63	Northing: 0	Easting: 0
Static Depth to Water (ft): 7.50	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 10.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 14:35	Purge End: 14:57	Total Volume Purged (gal): 2.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Color	Odor
14:50	7.35	1.00	0.00	0.00	21.35	247.0	4.99	233.0	18.60	clear	none
14:53	7.35	1.25	0.00	0.00	21.53	248.0	5.01	232.0	19.00		
14:57	7.35	2.00	0.25	0.00	21.53	245.0	5.00	232.0	19.20		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	3/17/2004	DO (mg/L):	0.00	DO:	0.00	Sulfate:	0.00
Sample Start Time:	14:57	Temp (*C):	21.51	CO2:	0.00	Sulfide:	0.00
Sample End Time:	15:15	SEC (uS/cm):	245.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	5.00	Ferrous Iron:	0.00		
Duplicate:	☐	ORP (mV):	232.00	H2S:	0.00		
		Turb (NTU):	17.90	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials
"VOCs, PAHs"	

GROUNDWATER SAMPLING LOG

TERRAINE Environmental Consulting

Project Information

Project No: 04-41001/5	Project Name: Day Tank 1 - Cecil Field LTM/RAO	
Technician 1:	Technician 2: Larry Wolski	Weather: Sunny
Sampling ID: 04-41001/5:VEW-07:3/17/04		
Notes:		

Well Information

Well ID: **VEW-07**	Sampling Date: **3/17/2004**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 76.44	Northing: 0	Easting: 0
Static Depth to Water (ft): 9.00	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 11.50
pH Meter: Accumet	Cond. Meter: YSI-33	DO Meter: YSI-51B	Turb. Meter: Hach 2100P
Purge Start: 15:00	Purge End: 15:15	Total Volume Purged (gal): 2.70	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Color	Odor
15:09	9.11	2.00	0.00	1.70	21.60	184.4	5.51	0.0	5.01	clear	none
15:12	9.13	2.50	0.25	1.10	21.40	185.3	5.47	0.0	3.49		
15:15	9.13	2.75	0.12	1.30	21.40	185.5	5.45	0.0	3.79		

Sampling Data

Sample Information

Sample Date:	3/17/2004
Sample Start Time:	15:15
Sample End Time:	15:28
Field Filtered:	☐
Duplicate:	☐

Final Purge Readings

DO (mg/L):	1.20
Temp (*C):	21.40
SEC (uS/cm):	186.00
pH:	5.44
ORP (mV):	0.00
Turb (NTU):	3.32

Field Test Kit Readings (mg/L)

DO:	0.00	Sulfate:	0.00
CO2:	0.00	Sulfide:	0.00
Alkalinity:	0.00		
Ferrous Iron:	0.00		
H2S:	0.00		
Manganese:	0.00		

Lab Analyses/Methods:

"VOCs, PAHs"

Technician Initials

APPENDIX C

1st Quarter 2004 Site Visit Reports

Garnett JA Jones Bldg 1

OPERATIONS & MAINTENANCE SITE VISIT REPORT
CONTRACT NO. N62467-02-G-0352, CTO NO. 0001, TERRAINE PROJ. NO. 04-40001
DAY TANK 1 BIOSPARGE/SVE SYSTEM
NAVAL AIR STATION, CECIL FIELD, FLORIDA

Date / Time: 16 Jan 04 1305 Tech 1: M. Uttecht Tech 2: —

Weekly Site Visit: 1.0, 2.0, 3.0, and 4.1 Monthly Site Visit: 1.0, 2.0, 3.0, 4.0, 5.0, and 6.0

1.0

System	Status	Hour Meter	Time	
Vapor Extraction System	Arrive: Up / Down	25424h	1305	← Circle Status
	Depart: Up / Down	25424h	1320	← Circle Status
Biosparge System	Arrive: Up / Down	23880.4h	1305	← Circle Status
	Depart: Up / Down	23880.4h	1320	← Circle Status
Electric Service Meter Reading:	—	—	91244 kwh 1305	departure 91244 kwh 1320

2.0 If either system was down on arrival/departure, note suspected reason:

System started up, run for 15 mins 1305-1320 - system shut down a couple minutes early - display indicates "compressor on" but compressor is not running.
* wrench symbol w/orange light flashing - require maintenance

3.0 Note measures performed to fix problem(s)/maintenance performed:

Colleen

* Area fenced / locked - have to obtain gate keys from JA Jones, Building 1 (just behind Bldg 9 system) to gain access - do not have extra keys, so have to ask each time need access. Return keys to JA Jones.

4.0 Biosparge System

4.1 Treatment Building

	Tank Pressure	Line Pressure	Line Flow	Comments
Design Pressure (psi)	45	30	45	
Actual Pressure (psi)				
Design Flowrate (cfm)	10	10	10	
Actual Flowrate (cfm)				

4.2 Biosparge Wells

	BP-01	BP-02	BP-03	BP-04	BP-05	BP-06	BP-07	BP-08
Actual Pressure (psi)								
Actual Flow (acfm)								

	BP-09	BP-10	BP-11	BP-12	BP-13	BP-14	BP-15	BP-16
Actual Pressure (psi)								
Actual Flow (acfm)								

5.0 Soil Vapor Extraction System (SVE Wells)

	VEW-01	VEW-02	VEW-03	VEW-04	VEW-05	VEW-06	VEW-07	VEW-08
Actual Vacuum (in. H2O)								
Actual Flowrate (cfm)								

6.0 Air Sampling

Sample Location/ID	Date	Time	Parameters
DT1-Effluent			TO-15

Signature Megan Uttecht 16 Jan 04 Signature _____

OPERATIONS & MAINTENANCE SITE VISIT REPORT
CONTRACT NO. N62467-02-G-0352, CTO NO. 0001, TERRAINE PROJ. NO. 04-40001
DAY TANK 1 BIOSPARGE/SVE SYSTEM
NAVAL AIR STATION, CECIL FIELD, FLORIDA

Date / Time: 27Feb04 / 1520 Tech 1: M Uttecht Tech 2: —

Weekly Site Visit: 1.0, 2.0, 3.0, and 4.1 Monthly Site Visit: 1.0, 2.0, 3.0, 4.0, 5.0, and 6.0

1.0

System	Status	Hour Meter	Time	
Vapor Extraction System	Arrive: Up / Down	25424 h	1520	← Circle Status
	Depart: Up / Down	25424 h	1530	← Circle Status
Biosparge System	Arrive: Up / Down	23880 Mh	1520	← Circle Status
	Depart: Up / Down	23880 Mh	1530	← Circle Status
Electric Service Meter Reading:	—	91309 kwh	1520	/ departure 91309 kwh 1530

2.0 If either system was down on arrival/departure, note suspected reason:
* unable to start system - compressor would not turn on. wrench (maintenance) light illuminated.
* will contact Robbie Nicely re: issues.
→ called 27 Feb04 ✓

3.0 Note measures performed to fix problem(s)/maintenance performed:

4.0 Biosparge System

4.1 Treatment Building

	Tank Pressure	Line Pressure	Line Flow	Comments
Design Pressure (psi)	45	30	45	
Actual Pressure (psi)				
Design Flowrate (cfm)	10	10	10	
Actual Flowrate (cfm)				

4.2 Biosparge Wells

	BP-01	BP-02	BP-03	BP-04	BP-05	BP-06	BP-07	BP-08
Actual Pressure (psi)								
Actual Flow (acfm)								

	BP-09	BP-10	BP-11	BP-12	BP-13	BP-14	BP-15	BP-16
Actual Pressure (psi)								
Actual Flow (acfm)								

5.0 Soil Vapor Extraction System (SVE Wells)

	VEW-01	VEW-02	VEW-03	VEW-04	VEW-05	VEW-06	VEW-07	VEW-08
Actual Vacuum (in. H2O)								
Actual Flowrate (cfm)								

6.0 Air Sampling

Sample Location/ID	Date	Time	Parameters
DT1-Effluent			TO-15

Signature Megan Uttecht Signature _____

OPERATIONS & MAINTENANCE SITE VISIT REPORT
CONTRACT NO. N62467-02-G-0352, CTO NO. 0001, TERRAINE PROJ. NO. 04-40001
DAY TANK 1 BIOSPARGE/SVE SYSTEM
NAVAL AIR STATION, CECIL FIELD, FLORIDA

Date / Time: 23 Mar 04 / 1315 Tech 1: M. Uttecht Tech 2: _____

Weekly Site Visit: 1.0, 2.0, 3.0, and 4.1 Monthly Site Visit: 1.0, 2.0, 3.0, 4.0, 5.0, and 6.0

1.0

System	Status	Hour Meter (s)	Time	
Vapor Extraction System	Arrive: Up / Down	25425	1315	<-- Circle Status
	Depart: Up / Down	25425	1330	<-- Circle Status
Biosparge System	Arrive: Up / Down	233804	1315	<-- Circle Status
	Depart: Up / Down	233804	1330	<-- Circle Status
Electric Service Meter Reading:	-- arrival --	91346	1315	departure 91347 kwh 1330

2.0 If either system was down on arrival/departure, note suspected reason:

orange wrench light still flashing
able to start unit
pressure on unit ramped up to ~110 psi, temp 155°F
ran for ~10 minutes
shut down on own

3.0 Note measures performed to fix problem(s)/maintenance performed:

unable to restart
orange wrench light still flashing

4.0 Biosparge System

4.1 Treatment Building

	Tank Pressure	Line Pressure	Line Flow	Comments
Design Pressure (psi)	45	30	45	
Actual Pressure (psi)				
Design Flowrate (cfm)	10	10	10	
Actual Flowrate (cfm)				

4.2 Biosparge Wells

	BP-01	BP-02	BP-03	BP-04	BP-05	BP-06	BP-07	BP-08
Actual Pressure (psi)								
Actual Flow (acfm)								

	BP-09	BP-10	BP-11	BP-12	BP-13	BP-14	BP-15	BP-16
Actual Pressure (psi)								
Actual Flow (acfm)								

5.0 Soil Vapor Extraction System (SVE Wells)

	VEW-01	VEW-02	VEW-03	VEW-04	VEW-05	VEW-06	VEW-07	VEW-08
Actual Vacuum (in. H2O)								
Actual Flowrate (cfm)								

6.0 Air Sampling

Sample Location/ID	Date	Time	Parameters
DT1-Effluent			TO-15

Signature Megan Uttecht 23 Mar 04 Signature _____