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NAS CECIL FIELD, FL
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THIRD QUARTER 2003 OPERATION AND MAINTENANCE STATUS REPORT FOR BIOSPARGING AND SOIL VAPOR EXTRACTION SYSTEM AT DAY TANK 1 SITE NAS CECIL FIELD FL

1/1/2004

TERRAINE INC ENVIRONMENTAL SERVICES

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THIRD QUARTER 2003
Operation and Maintenance Status Report
July 1, 2003 – September 30, 2003

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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January 2004

Contents

Signature Page ..... **ii**
Acronyms ..... **iii**
1.0 Introduction **1-1**
1.1 Objective 1-1
1.2 Site History 1-1
1.3 Remediation System/Technology Description 1-2
2.0 System Performance Monitoring **2-1**
2.1 Operational Efficiencies 2-1
2.1.1 Biosparging System 2-1
2.1.2 Vapor Collection System 2-1
2.2 Summary of Maintenance and System Downtime 2-1
2.3 Pressure/Flow Rate Monitoring 2-2
2.3.1 Air Sparge System 2-2
2.3.2 Vapor Extraction System 2-2
2.4 Groundwater Level Measurements 2-2
3.0 Summary of Sampling and Laboratory Analytical Results **3-1**
3.1 Vapor Monitoring 3-1
3.2 Groundwater Monitoring 3-1
4.0 Conclusions and Recommendations **4-1**
5.0 References **5-1**

Tables

2-1 Biosparge Wellhead Pressure/Flow Measurements 2-3
2-2 Vapor Collection System Wellhead Vacuum/Flow Measurements 2-19
2-3 Depth-to-Groundwater/LNAPL Measurements 2-27
3-1 Pre-Treatment Vapor Analytical Results 3-2
3-2 Post-Treatment Vapor Analytical Results 3-3
3-3 Pounds-per-Day Loading/Emissions Rates 3-4
3-4 Groundwater Analytical Results 3-5
3-5 Groundwater Field Analytical Results 3-9

Figures

1-1 Bioventing and Biosparging System Site Map 1-3

Appendices

A Laboratory Analytical Reports for Groundwater Samples
B 3rd Quarter 2003 Groundwater Sampling Logs
C 3rd Quarter 2003 Site Visit Reports

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
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 July 1 to September 30, 2003.

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 is 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 Environmental Services is operating and maintaining the system under Response Action 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, FDEP approved deactivating the remediation system on approximately August 15, 2003. Post-active remediation

monitoring in accordance with Chapter 62-770.750, Florida Administrative Code began at this time.

As a part of the post-active remediation monitoring, the following wells are 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.

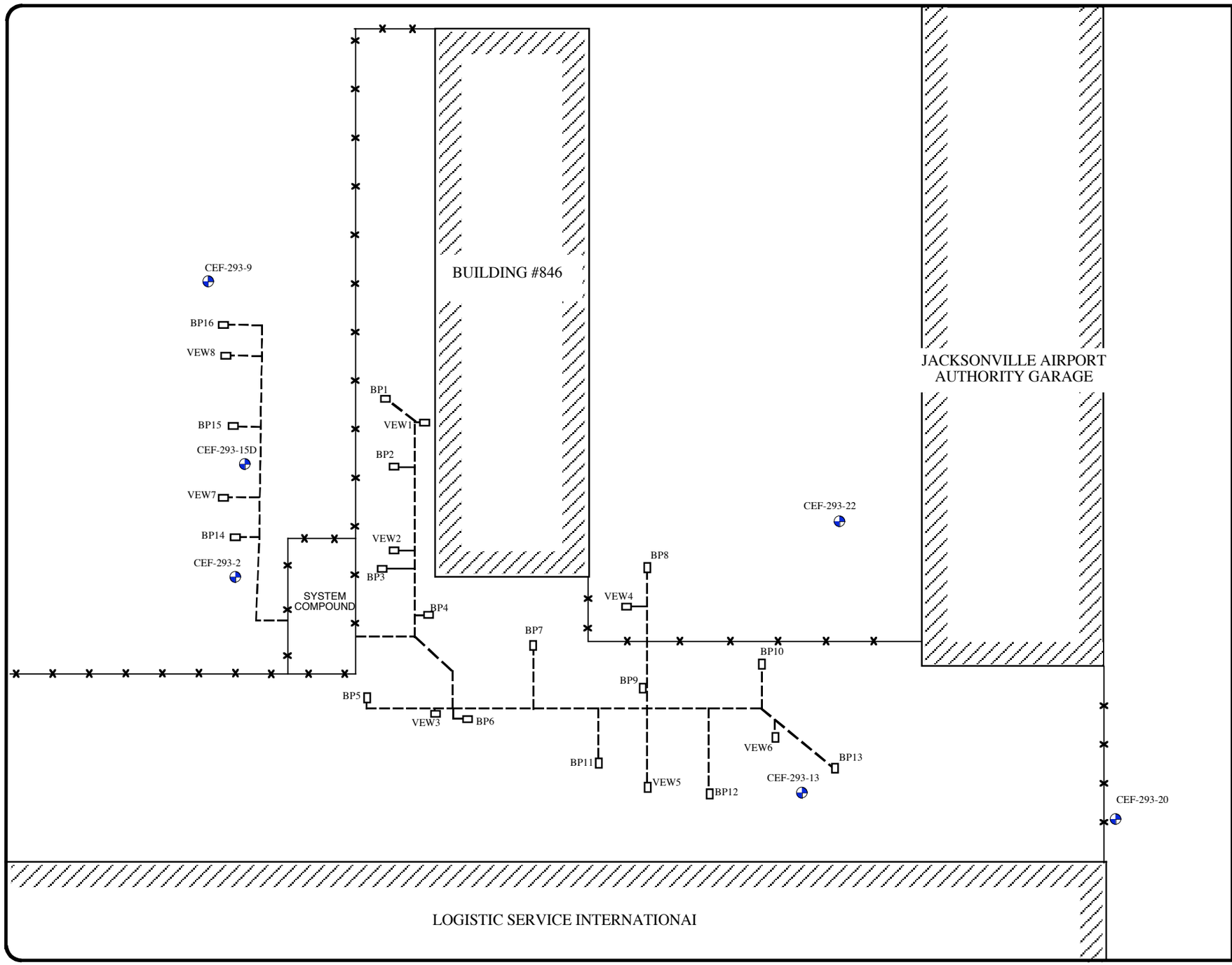
1.3 Remediation System/Technology Description

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, Inc.
ENVIRONMENTAL SERVICES

FIGURE 1-1
BIOVENTING AND BIOSPARGING SYSTEM MAP

DAY TANK 1
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FL

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

2.0 System Performance Monitoring

O&M checks of the system were performed weekly during the month of July, 2003. The system was shut down on approximately August 15, 2003 as a result of FDEP approval for system deactivation. A post-active remediation O&M check was performed on September 24, 2003.

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

2.1.1 Biosparging System

3rd QTR. 2003	Period	To Date
Hours of Possible Operation:	1,104	25,943
Hours of Actual Operation:	*	*
Percent hours of Operation:	*	*

*Hours of operation unknown due to change in subcontractor and system access problems.

2.1.2 Vapor Collection System

3rd QTR. 2003	Period	To Date
Hours of Possible Operation:	1,104	25,943
Hours of Actual Operation:	*	*
Percent hours of Operation:	*	*

*Hours of operation unknown due to change in subcontractor and system access problems.

2.2 Summary of Maintenance

During system checks in July and September, 2003, a problem was discovered with the system compressor. Due to system access problems, a change in maintenance subcontractor, and FDEP approval for system shut-down, the problem was not corrected during the 3rd quarter 2003. Repair of the system has been scheduled for October, 2003.

2.3 Pressure/Flow Rate Monitoring

2.3.1 Air Sparge System

During the monitoring period of July 1 through September 30, 2003, pressure at each sparge wellhead and airflow rate at each header pipe was not measured due to system access problems, change in maintenance subcontractor, and as a result of FDEP approval for system deactivation. 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 monitoring period of July 1 through September 30, 2003, vacuum pressure at each vapor extraction wellhead and the airflow rate at each header pipe was not measured due to system access problems, change in maintenance subcontractor mid quarter, and 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**.

Approximately 0.5 feet of LNAPL was noted in VEW-1 during the monitoring period. Total LNAPL recovered to date is 18.9 gallons.

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	02/29/00	60	3
	03/01/00	60	5
	03/02/00	60	6
	04/07/00	65	NM
	04/24/00	60	12
	05/30/00	60	11
	07/24/00	60	12
	08/22/00	60	12
	10/30/00	60	11
	11/27/00	60	11
	12/11/00	60	10
	01/29/01	60	11
	02/26/01	70	10
	04/16/01	55	11
	05/21/01	55	10.5
	07/03/01	55	10
	07/30/01	50	11
	08/29/01	55	10
	09/18/01	40	10
	10/29/01	60	10
	11/26/01	60	10
	12/12/01	55	10
	01/30/02	50	10
	02/25/02	60	10
	03/28/02	50	12
	04/15/02	60	12
	05/20/02	60	12
	06/26/02	60	12
	07/29/02	60	12
	08/12/02	60	12
	09/23/02	NM	NM
	10/17/02	60	10
	11/14/02	14	15
	12/19/02	60	15
	02/26/03	NM	NM
	03/13/03	12	18
	04/10/03	12	18
	06/27/03	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	02/29/00	60	10
	03/01/00	60	10
	03/02/00	62	10
	04/07/00	65	10
	04/24/00	60	10
	05/30/00	60	10
	07/24/00	55	10
	08/22/00	60	10
	10/30/00	60	10
	11/27/00	60	10
	12/11/00	60	10
	01/29/01	65	10
	02/26/01	75	9
	04/16/01	60	10
	05/21/01	55	10
	07/03/01	45	10
	07/30/01	60	10
	08/29/01	50	10
	09/18/01	55	10
	10/29/01	60	10
	11/26/01	60	10
	12/12/01	55	10
	01/30/02	55	10
	02/25/02	60	10
	03/28/02	60	10
	04/15/02	60	10
	05/20/02	60	10
	06/26/02	60	10
	07/29/02	60	10
	08/12/02	60	10
	09/23/02	NM	NM
	10/17/02	50	14
	11/14/02	16	13
	12/19/02	62	11
	02/26/03	NM	NM
	03/13/03	12	18
	04/10/03	12	18
	06/27/03	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	02/29/00	60	10
	03/01/00	60	10
	03/02/00	64	9.5
	04/07/00	65	8
	04/24/00	60	10
	05/30/00	NM	10
	07/24/00	120	10
	08/22/00	NM	10
	10/30/00	120	10
	11/27/00	120	10
	12/11/00	NM	10
	01/29/01	NM	10
	02/26/01	120	9
	04/16/01	NM	10
	05/21/01	NM	10
	07/03/01	NM	10
	07/30/01	NM	10
	08/29/01	NM	10
	09/18/01	NM	10
	10/29/01	NM	10
	11/26/01	NM	10
	12/12/01	NM	10
	01/30/02	NM	10
	02/25/02	60	10
	03/28/02	NM	10
	04/15/02	60	10
	05/20/02	60	10
	06/26/02	60	10
	07/29/02	60	10
	08/12/02	60	10
	09/23/02	NM	NM
	10/17/02	60	11
	11/14/02	13	13
	12/19/02	62	10
	02/26/03	NM	NM
	03/13/03	12	18
	04/10/03	12	18
	06/27/03	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	02/29/00	60	10
	03/01/00	60	10
	03/02/00	62	10
	04/07/00	65	10
	04/24/00	60	10
	05/30/00	60	10
	07/24/00	50	10
	08/22/00	60	10
	10/30/00	60	11
	11/27/00	60	10
	12/11/00	60	10
	01/29/01	60	10
	02/26/01	50	10
	04/16/01	60	10
	05/21/01	60	10
	07/03/01	60	10
	07/30/01	60	10
	08/29/01	60	10
	09/18/01	60	10
	10/29/01	55	10
	11/26/01	60	10
	12/12/01	65	10
	01/30/02	60	10
	02/25/02	60	10
	03/28/02	60	10
	04/15/02	60	10
	05/20/02	60	10
	06/26/02	55	10
	07/29/02	55	10
	08/12/02	60	12
	09/23/02	NM	NM
	10/17/02	60	12
	11/14/02	15	9
	12/19/02	61	11
	02/26/03	NM	NM
	03/13/03	12	18
	04/10/03	12	18
	06/27/03	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	02/29/00	60	10
	03/01/00	60	10
	03/02/00	60	10
	04/07/00	60	10
	04/24/00	60	10
	05/30/00	60	10
	07/24/00	50	10
	08/22/00	60	10
	10/30/00	60	10
	11/27/00	60	10
	12/11/00	65	10
	01/29/01	60	10
	02/26/01	70	9
	04/16/01	60	10
	05/21/01	60	10
	07/03/01	35	10
	07/30/01	40	10
	08/29/01	45	10
	09/18/01	50	10
	10/29/01	60	10
	11/26/01	60	10
	12/12/01	60	10
	01/30/02	60	10
	02/25/02	60	10
	03/28/02	60	10
	04/15/02	60	10
	05/20/02	40	10
	06/26/02	60	10
	07/29/02	50	10
	08/12/02	60	10
	09/23/02	NM	NM
	10/17/02	50	13
	11/14/02	15	10
	12/19/02	61	10
	02/26/03	NM	NM
	03/13/03	12	16
	04/10/03	11	16
	06/27/03	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	02/29/00	60	10
	03/01/00	60	10
	03/02/00	60	10
	04/07/00	65	10
	04/24/00	60	10
	05/30/00	60	10
	07/24/00	60	10
	08/22/00	60	10
	10/30/00	60	10
	11/27/00	60	10
	12/11/00	70	10
	01/29/01	60	10
	02/26/01	80	10
	04/16/01	60	10
	05/21/01	60	10
	07/03/01	40	10
	07/30/01	50	10
	08/29/01	60	10
	09/18/01	60	10
	10/29/01	50	10
	11/26/01	NA	NA
	12/12/01	60	10
	01/30/02	60	9
	02/25/02	60	10
	03/28/02	60	10
	04/15/02	60	10
	05/20/02	60	10
	06/26/02	50	10
	07/29/02	60	10
	08/12/02	60	10
	09/23/02	NM	NM
	10/17/02	60	11
	11/14/02	15	10
	12/19/02	61	12
	02/26/03	NM	NM
	03/13/03	12	16
	04/10/03	11	16
	06/27/03	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-07	02/29/00	0	10
	03/01/00	65	10
	03/02/00	60	10
	04/07/00	60	10
	04/24/00	55	10
	05/30/00	60	10
	07/24/00	50	10
	08/22/00	60	10
	10/30/00	60	10
	11/27/00	60	10
	12/11/00	70	10
	01/29/01	60	10
	02/26/01	80	8
	04/16/01	60	10
	05/21/01	65	10
	07/03/01	60	10
	07/30/01	60	10
	08/29/01	60	10
	09/18/01	55	10
	10/29/01	55	10
	11/26/01	60	10
	12/12/01	60	10
	01/30/02	60	10
	02/25/02	60	10
	03/28/02	55	10
	04/15/02	60	10
	05/20/02	50	10
	06/26/02	60	10
	07/29/02	55	10
	08/12/02	60	10
	09/23/02	NM	NM
	10/17/02	50	10
	11/14/02	16	11
	12/19/02	60	10
	02/26/03	NM	NM
	03/13/03	11.5	18
	04/10/03	11	16
	06/27/03	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	02/29/00	65	10
	03/01/00	65	10
	03/02/00	60	10
	04/07/00	60	10
	04/24/00	NM	NM
	05/30/00	50	10
	07/24/00	60	10
	08/22/00	60	10
	10/30/00	60	10
	11/27/00	60	10
	12/11/00	60	10
	01/29/01	50	10
	02/26/01	25	9
	04/16/01	70	10
	05/21/01	55	10
	07/03/01	30	10
	07/30/01	50	10
	08/29/01	60	10
	09/18/01	45	10
	10/29/01	55	10
	11/26/01	60	10
	12/12/01	60	10
	01/30/02	60	10
	02/25/02	60	10
	03/28/02	60	11
	04/15/02	60	10
	05/20/02	60	10
	06/26/02	60	11
	07/29/02	60	10
	08/12/02	NM	NM
	09/23/02	NM	NM
	10/17/02	60	10
	11/14/02	15	10
	12/19/02	60	11
	02/26/03	NM	NM
	03/13/03	12	18
	04/10/03	11	16
	06/27/03	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	02/29/00	60	10
	03/01/00	65	12
	03/02/00	NM	NM
	04/07/00	65	10
	04/24/00	NM	NM
	05/30/00	60	10
	07/24/00	60	10
	08/22/00	60	10
	10/30/00	60	10
	11/27/00	60	10
	12/11/00	60	10
	01/29/01	70	10
	02/26/01	70	10
	04/16/01	65	10
	05/21/01	60	10
	07/03/01	50	10
	07/30/01	60	10
	08/29/01	60	10
	09/18/01	60	10
	10/29/01	55	10
	11/26/01	60	10
	12/12/01	60	10
	01/30/02	65	10
	02/25/02	60	10
	03/28/02	60	10
	04/15/02	60	10
	05/20/02	60	10
	06/26/02	65	10
	07/29/02	60	10
	08/12/02	60	10
	09/23/02	NM	NM
	10/17/02	50	11
	11/14/02	16	10
	12/19/02	61	12
	02/26/03	NM	NM
	03/13/03	12	18
	04/10/03	11	16
	06/27/03	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	02/29/00	60	10
	03/01/00	60	10
	03/02/00	60	10
	04/07/00	NM	10
	04/24/00	NM	NM
	05/30/00	60	10
	07/24/00	50	10
	08/22/00	55	10
	10/30/00	60	10
	11/27/00	60	10
	12/11/00	65	10
	01/29/01	60	10
	02/26/01	80	10
	04/16/01	80	10
	05/21/01	70	10
	07/03/01	40	10
	07/30/01	50	10
	08/29/01	55	10
	09/18/01	60	10
	10/29/01	60	10
	11/26/01	60	10
	12/12/01	60	10
	01/30/02	60	10
	02/25/02	60	9
	03/28/02	60	12
	04/15/02	60	10
	05/20/02	60	12
	06/26/02	50	10
	07/29/02	60	10
	08/12/02	NM	NM
	09/23/02	NM	NM
	10/17/02	60	10
	11/14/02	16	10
	12/19/02	NM	NM
	02/26/03	NM	NM
	03/13/03	12	18
	04/10/03	11.5	18
	06/27/03	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	02/29/00	60	10
	03/01/00	60	10
	03/02/00	60	10
	04/07/00	60	10
	04/24/00	NM	NM
	05/30/00	60	10
	07/24/00	60	10
	08/22/00	60	10
	10/30/00	60	10
	11/27/00	60	10
	12/11/00	60	10
	01/29/01	50	10
	02/26/01	50	10
	04/16/01	55	11
	05/21/01	50	10
	07/03/01	30	10
	07/30/01	60	10
	08/29/01	50	10
	09/18/01	60	10
	10/29/01	55	10
	11/26/01	60	10
	12/12/01	60	10
	01/30/02	60	10
	02/25/02	66	10
	03/28/02	60	10
	04/15/02	60	10
	05/20/02	55	10
	06/26/02	60	11
	07/29/02	60	10
	08/12/02	60	10
	09/23/02	NM	NM
	10/17/02	60	10
	11/14/02	16	9
	12/19/02	NM	NM
	02/26/03	NM	NM
	03/13/03	11.5	16
	04/10/03	11.5	18
	06/27/03	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-12	02/29/00	NM	NM
	03/01/00	65	NM
	03/02/00	60	NM
	04/07/00	65	NM
	04/24/00	NM	NM
	05/30/00	55	10
	07/24/00	60	10
	08/22/00	60	10
	10/30/00	60	10.5
	11/27/00	60	10
	12/11/00	65	10
	01/29/01	NM	NM
	02/26/01	60	10
	04/16/01	60	10
	05/21/01	50	10
	07/03/01	20	10
	07/30/01	50	10
	08/29/01	50	10
	09/18/01	60	12
	10/29/01	60	10
	11/26/01	40	10
	12/12/01	60	10
	01/30/02	55	10
	02/25/02	60	11
	03/28/02	50	10
	04/15/02	60	12
	05/20/02	40	12
	06/26/02	55	10
	07/29/02	60	10
	08/12/02	60	11
	09/23/02	NM	NM
	10/17/02	60	10
	11/14/02	15	9
	12/19/02	61	14
	02/26/03	NM	NM
	03/13/03	NM	NM
	04/10/03	NM	NM
	06/27/03	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	02/29/00	65	10
	03/01/00	65	10
	03/02/00	60	10
	04/07/00	65	10
	04/24/00	60	10
	05/30/00	60	10
	07/24/00	40	10
	08/22/00	60	10
	10/30/00	65	10
	11/27/00	60	10
	12/11/00	65	10
	01/29/01	50	10
	02/26/01	20	9
	04/16/01	60	10
	05/21/01	65	10
	07/03/01	65	10
	07/30/01	60	10
	08/29/01	60	10
	09/18/01	60	10
	10/29/01	60	10
	11/26/01	60	10
	12/12/01	60	10
	01/30/02	60	10
	02/25/02	60	10
	03/28/02	60	10
	04/15/02	60	10
	05/20/02	70	10
	06/26/02	60	10
	07/29/02	60	10
	08/12/02	60	10
	09/23/02	NM	NM
	10/17/02	50	11
	11/14/02	16	11
	12/19/02	62	15
	02/26/03	NM	NM
	03/13/03	NM	NM
	04/10/03	NM	NM
	06/27/03	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	02/29/00	60	16
	03/01/00	60	16
	03/02/00	60	16
	04/07/00	55	16
	04/24/00	55	16
	05/30/00	NM	10
	07/24/00	60	16
	08/22/00	60	16
	10/30/00	70	18
	11/27/00	60	18
	12/11/00	60	10
	01/29/01	65	10
	02/26/01	70	12
	04/16/01	60	10
	05/21/01	60	16
	07/03/01	50	18
	07/30/01	50	14
	08/29/01	55	15
	09/18/01	60	16
	10/29/01	60	10
	11/26/01	60	15
	12/12/01	60	10
	01/30/02	60	10
	02/25/02	60	16
	03/28/02	55	12
	04/15/02	60	16
	05/20/02	60	14
	06/26/02	60	10
	07/29/02	55	16
	08/12/02	60	17
	09/23/02	NM	NM
	10/17/02	60	14
	11/14/02	NM	NM
	12/19/02	80	18
	02/26/03	NM	NM
	03/13/03	NM	NM
	04/10/03	NM	NM
	06/27/03	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	02/29/00	60	10
	03/01/00	60	10
	03/02/00	60	10
	04/07/00	60	10
	04/24/00	55	10
	05/30/00	60	10
	07/24/00	60	10
	08/22/00	60	10
	10/30/00	60	10
	11/27/00	60	10
	12/11/00	60	10
	01/29/01	60	10
	02/26/01	60	9
	04/16/01	50	10
	05/21/01	50	10
	07/03/01	30	10
	07/30/01	50	10
	08/29/01	50	10
	09/18/01	60	10
	10/29/01	60	10
	11/26/01	60	10
	12/12/01	60	10
	01/30/02	65	10
	02/25/02	60	10
	03/28/02	60	10
	04/15/02	60	10
	05/20/02	55	10
	06/26/02	60	10
	07/29/02	60	10
	08/12/02	60	11
	09/23/02	NM	NM
	10/17/02	50	12
	11/14/02	NM	NM
	12/19/02	80	12
	02/26/03	NM	NM
	03/13/03	11.5	16
	04/10/03	11	16
	06/27/03	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	02/29/00	60	10
	03/01/00	60	10
	03/02/00	60	10
	04/07/00	65	10
	04/24/00	60	10
	05/30/00	60	10
	07/24/00	60	10
	08/22/00	60	10
	10/30/00	70	10
	11/27/00	60	10
	12/11/00	60	10
	01/29/01	60	10
	02/26/01	70	10
	04/16/01	60	10
	05/21/01	60	10
	07/03/01	50	10
	07/30/01	50	10
	08/29/01	60	10
	09/18/01	60	10
	10/29/01	60	10
	11/26/01	60	10
	12/12/01	60	10
	01/30/02	60	10
	02/25/02	60	10
	03/28/02	60	10
	04/15/02	60	10
	05/20/02	55	10
	06/26/02	55	10
	07/29/02	60	10
	08/12/02	60	10
	09/23/02	NM	NM
	10/17/02	60	10
	11/14/02	NM	NM
	12/19/02	60	10
	02/26/03	NM	NM
	03/13/03	11.5	16
	04/10/03	11	16
	06/27/03	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	02/29/00	4	38
	03/01/00	4	38
	03/02/00	2	39
	04/07/00	3	41
	04/24/00	2	40
	05/30/00	6	6
	07/24/00	11	2
	08/22/00	7	8
	10/30/00	4	10
	11/27/00	6	10
	12/11/00	5	8
	01/29/01	4	21
	02/26/01	5	15
	04/16/01	6	8
	05/21/01	5	36
	07/03/01	5	42
	07/30/01	6	50
	08/29/01	5	NM
	09/18/01	3	22
	10/29/01	5	45
	11/26/01	6	35
	12/12/01	5	45
	01/30/02	6	44
	02/25/02	8	20
	03/28/02	7	35
	04/15/02	8	40
	05/20/02	9	33
	06/26/02	7	35
	07/29/02	7	40
	08/12/02	8	32
	09/23/02	NM	NM
	10/17/02	6	37
	11/14/02	14	11
	12/19/02	NM	NM
	02/26/03	NM	NM
	03/13/03	16	20
	04/10/03	16	20
	06/27/03	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	02/29/00	6	26
	03/01/00	6	26
	03/02/00	5	23
	04/07/00	NM	40
	04/24/00	NM	28
	05/30/00	1	26
	07/24/00	2	27
	08/22/00	0	25
	10/30/00	7	26
	11/27/00	4	20
	12/11/00	6	20
	01/29/01	4	25
	02/26/01	8	25
	04/16/01	6	20
	05/21/01	3	34
	07/03/01	4	20
	07/30/01	6	25
	08/29/01	5	20
	09/18/01	4	27
	10/29/01	6	28
	11/26/01	6	32
	12/12/01	5	46
	01/30/02	7	49
	02/25/02	7	32
	03/28/02	6	20
	04/15/02	5	23
	05/20/02	6	23
	06/26/02	6	23
	07/29/02	5	36
	08/12/02	3	23
	09/23/02	NM	NM
	10/17/02	0	22
	11/14/02	16	23
	12/19/02	6	25
	02/26/03	NM	NM
	03/13/03	18	22
	04/10/03	16	20
	06/27/03	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	02/29/00	8	28
	03/01/00	8	28
	03/02/00	6	19
	04/07/00	6	18
	04/24/00	6	16
	05/30/00	6	13
	07/24/00	2	30
	08/22/00	6	1
	10/30/00	5	10.5
	11/27/00	6	15
	12/11/00	6.5	14
	01/29/01	6	15
	02/26/01	6	15
	04/16/01	5	14
	05/21/01	6	10
	07/03/01	7	8
	07/30/01	6	10
	08/29/01	6	10
	09/18/01	6	10
	10/29/01	6	10
	11/26/01	NA	NA
	12/12/01	8	60
	01/30/02	6	42
	02/25/02	6	27
	03/28/02	8	28
	04/15/02	7	42
	05/20/02	9	25
	06/26/02	8	29
	07/29/02	7	31
	08/12/02	13	23
	09/23/02	NM	NM
	10/17/02	14	11
	11/14/02	16	10
	12/19/02	6	25
	02/26/03	NM	NM
	03/13/03	18	22
	04/10/03	16	20
	06/27/03	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	02/29/00	8	38
	03/01/00	8	38
	03/02/00	5	37
	04/07/00	7	14
	04/24/00	NM	NM
	05/30/00	6	31
	07/24/00	6	15
	08/22/00	6	8
	10/30/00	7	8
	11/27/00	7	8
	12/11/00	7	7
	01/29/01	6	5
	02/26/01	6	12
	04/16/01	8	5
	05/21/01	10	15
	07/03/01	8	6
	07/30/01	6	10
	08/29/01	8	5
	09/18/01	5	4
	10/29/01	6	12
	11/26/01	6	31
	12/12/01	6	54
	01/30/02	6	40
	02/25/02	6	30
	03/28/02	6	31
	04/15/02	6	32
	05/20/02	6	27
	06/26/02	6	31
	07/29/02	6	36
	08/12/02	NM	NM
	09/23/02	NM	NM
	10/17/02	NM	NM
	11/14/02	15	20
	12/19/02	5	20
	02/26/03	NM	NM
	03/13/03	18	22
	04/10/03	14	18
	06/27/03	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	02/29/00	5	38
	03/01/00	5	38
	03/02/00	4	37
	04/07/00	6	40
	04/24/00	5	24
	05/30/00	6	5
	07/24/00	6	0
	08/22/00	6	6
	10/30/00	6	32
	11/27/00	6	15
	12/11/00	6	18
	01/29/01	7	10
	02/26/01	7	18
	04/16/01	6	18
	05/21/01	6	24
	07/03/01	6	NM
	07/30/01	6	32
	08/29/01	6	15
	09/18/01	4	29
	10/29/01	6	30
	11/26/01	6	25
	12/12/01	6	51
	01/30/02	10	36
	02/25/02	6	33
	03/28/02	6	38
	04/15/02	6	39
	05/20/02	6	33
	06/26/02	6	34
	07/29/02	5	40
	08/12/02	5	35
	09/23/02	NM	NM
	10/17/02	0	3
	11/14/02	16	21
	12/19/02	8	25
	02/26/03	NM	NM
	03/13/03	18	22
	04/10/03	16	20
	06/27/03	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	02/29/00	4	38
	03/01/00	4	38
	03/02/00	4	39
	04/07/00	6	43
	04/24/00	6	40
	05/30/00	6	41
	07/24/00	6	40
	08/22/00	6	10
	10/30/00	6	39
	11/27/00	7	13
	12/11/00	8	20
	01/29/01	7	15
	02/26/01	10	56
	04/16/01	6	20
	05/21/01	6	17
	07/03/01	5	NM
	07/30/01	6	45
	08/29/01	6	18
	09/18/01	4	NM
	10/29/01	6	35
	11/26/01	6	15
	12/12/01	6	55
	01/30/02	6	40
	02/25/02	6	33
	03/28/02	6	39
	04/15/02	6	39
	05/20/02	6	35
	06/26/02	9	35
	07/29/02	6	34
	08/12/02	9	32
	09/23/02	NM	NM
	10/17/02	9	32
	11/14/02	16	21
	12/19/02	10	30
	02/26/03	NM	NM
	03/13/03	16	20
	04/10/03	18	20
	06/27/03	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	02/29/00	11	22
	03/01/00	11	24
	03/02/00	6	18
	04/07/00	6	40
	04/24/00	6	15
	05/30/00	5	32
	07/24/00	6	5
	08/22/00	6	5
	10/30/00	7	5
	11/27/00	7	7
	12/11/00	7	5
	01/29/01	6	6
	02/26/01	10	5
	04/16/01	7	5
	05/21/01	6	16
	07/03/01	10	7
	07/30/01	6	5
	08/29/01	8	6
	09/18/01	5	NM
	10/29/01	5	6
	11/26/01	8	6
	12/12/01	8	58
	01/30/02	6	26
	02/25/02	6	20
	03/28/02	7	23
	04/15/02	7	30
	05/20/02	9	19
	06/26/02	9	23
	07/29/02	7	42
	08/12/02	7	32
	09/23/02	NM	NM
	10/17/02	6	2
	11/14/02	16	20
	12/19/02	5	0
	02/26/03	NM	NM
	03/13/03	NM	NM
	04/10/03	NM	NM
	06/27/03	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	02/29/00	8	24
	03/01/00	8	24
	03/02/00	6	22
	04/07/00	7	20
	04/24/00	6	20
	05/30/00	6	17
	07/24/00	6	14
	08/22/00	6	14
	10/30/00	6	14
	11/27/00	6	15
	12/11/00	6	14
	01/29/01	6	15
	02/26/01	7	15
	04/16/01	6	15
	05/21/01	6	14
	07/03/01	8	25
	07/30/01	6	25
	08/29/01	6	20
	09/18/01	4	6
	10/29/01	5	25
	11/26/01	6	15
	12/12/01	6	53
	01/30/02	6	36
	02/25/02	6	27
	03/28/02	6	31
	04/15/02	6	37
	05/20/02	6	27
	06/26/02	6	27
	07/29/02	6	32
	08/12/02	6	31
	09/23/02	NM	NM
	10/17/02	4	28
	11/14/02	16	21
	12/19/02	6	25
	02/26/03	NM	NM
	03/13/03	16	20
	04/10/03	18	20
	06/27/03	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
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

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		4.4	4.90	0.50	71.77

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
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
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

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
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
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

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-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

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 period from July 1 through September 30, 2003. 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 the Department of Environmental Protection. Seven monitoring locations (two monitoring wells and five vapor extraction wells) at the site were sampled on September 2, 2003 and September 4, 2003 for Volatile Organic Aromatics (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. The contaminant concentrations for all monitoring locations are below Groundwater Cleanup Target Levels (GCTL) per Chapter 62-777 F.A.C. for all constituents. Vapor Extraction Well (VEW)-1 was not sampled during the third quarter 2003 due to the continued presence of LNAPL (discussed in Section 2.4).

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, specific conductivity, and DO were measured with a Horibia® water quality meter & flow-through cell. The results are summarized on **Table 3-5.**

TABLE 3-1
Day Tank 1: Pre-Treatment Vapor
Analytical Results
NAS Cecil Field Jacksonville,
Florida

Compound	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	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
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
1,1,2-Trichloro-1,2,2-trifluoroethane	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	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	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
1,2,4-Trimethylbenzene	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
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
1,2-Dichlorobenzene	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	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	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	ND	ND	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	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	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	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
Alpha-Chlorotoluene	NA	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	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	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
Bromodichloromethane	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	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
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
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	4.8
Chloroform	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	ND	3.44	ND	6.39	ND	ND	ND
Chloromethane	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
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
Dibromochloromethane	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	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	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	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	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	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
Hexane	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	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	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	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	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	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
o-Xylene	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	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	230	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	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	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	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
trans-1,4-Dichloro-2-butene	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	49.3	ND	ND	ND
Trichlorofluoromethane	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	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
Cyclohexane	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	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	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	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	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	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	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	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	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	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	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	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	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	ND	ND	33.6	ND	ND	7.5	31.2	ND	48.6
Xylenes (total)	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/m^3)	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

1. Total Volatile Organics = Sum of all detected Volatile Organic Compounds
2. When computing Total Volatile Organics, not detected compounds are assumed to be zero
3. From Feburary 2000 through May 2002, all 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 available for period of April 2002 through September 2002
8. Sampling for June was conducted late, therefore data from the July 3, 2003 sampling event is included.

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

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	1-Methylnapthalene	2-Methylnapthalene	Phenanthrene	Fluorene	Isopropylbenzene	Chloroform	n-Butylbenzene	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene
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
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	1-Methylnapthalene	2-Methylnapthalene	Phenanthrene	Fluorene	Isopropylbenzene	Chloroform	n-Butylbenzene	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene
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
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																								
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
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

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	1-Methylnapthalene	2-Methylnapthalene	Phenanthrene	Fluorene	Isopropylbenzene	Chloroform	n-Butylbenzene	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene
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
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
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	210	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
	09/04/03	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

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	1-Methylnapthalene	2-Methylnapthalene	Phenanthrene	Fluorene	Isopropylbenzene	Chloroform	n-Butylbenzene	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene
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
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	210	280	--	5.7	--	10	10
NADSC		100	300	400	200	2100	200	2800	2100	480	20	20	50	20	2100	20	200	200	200	2100	2800	--	570	--	100	100

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	26.1
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	0.929	0.72	28.75
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	0.342	1.34	26.85
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	0.306	0.51	27.4
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

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	27.69
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	25.31

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

4.0 Conclusions and Recommendations

Groundwater sampled from the two monitoring wells (CEF-293-9 and -22) and five vapor extraction wells (VEW-2, -3, -4, -5, and -7) were found to have contaminant concentrations less than the GCTL specified by Chapter 62-777 FAC.

Vapor extraction well VEW-1 was not sampled during the monitoring period due to the presence of LNAPL. LNAPL has been bailed periodically from VEW-1 since October 2000, and a total of approximately 18.9 gallons has been recovered to date. No significant decreases in LNAPL thickness at VEW-1 were noted during the monitoring period from July 1, 2003 to September, 2003.

It is recommended that the wells should continue to be sampled and analyzed quarterly for VOAs and SVOAs to evaluate rebound, and that recovery of LNAPL continues to be performed until LNAPL is no longer present in vapor extraction well VEW-1. It is further recommended that VEW-1 be sampled after LNAPL is no longer present, to ensure that the groundwater in this area has indeed been remediated.

5.0 References

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

CH2M HILL Constructors, Inc. January 2000. Work Plan Addendum No. 03, Day Tank 1 Biosparge and Vapor Collection System Installation, Naval Air Station Cecil Field, Jacksonville, Florida.

APPENDICES

A	*September 2003 Laboratory Analytical Reports for Groundwater Samples*
B	*3rd Quarter 2003 Groundwater Sampling Logs*
C	*3rd Quarter 2003 Site Visit Reports*

APPENDIX A

September 2003 Laboratory Analytical Reports for Groundwater Samples

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TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division

COOLER RECEIPT FORM BC# 345257

Client: TERRAINE

Cooler Received On: 9/03/03 And Opened On: 9/03/03 By: Ben Wright

(Signature)

1. Temperature of Cooler when opened 0.9 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. Was sufficient ice used (if appropriate)?.....YES...NO...NA
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

* TRIP BLANK WAS NOT IN COOLER.

18. See attached for resolution of non-conformance:

Fed-Ex UPS Velocity Airborne Route Off-street Misc.

TestAmerica ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

345257

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring _____

Client Name: Terraine, Inc Client #: 9463 (8)
Address: 7380 Phillips Hwy Suite 106
City/State/Zip Code: Jacksonville, FL 32256
Project Manager: James Young
Telephone Number: 904-296-6001 Fax: 305-513-4902
Sampler Name: (Print Name) Karen Baer
Sampler Signature: Karen Baer

Project Name: Cecil Field Day Tank 1
Project #: 04-41001/5
Site/Location ID: 5 State:
Report To:
Invoice To: James L. Young
Quote #: 092302/0902 PO#: 04-41001/5.4.2

TAT
___ Standard
___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y N

QC Deliverables
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other: _____
Standard

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix (SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other)	Preservation & # of Containers: HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	Analyze For: VOCs 8260B	PAH 8270									REMARKS
CEF-293-22	9/2/03	16:35					3				2		X	X									1360758
CEF-293-9	9/2/03	15:11					3				2		X	X									59
VEW-3	9/2/03	14:07					3				2		X	X									60
VEW-4	9/2/03	17:07					3				2		X	X									61
VEW-5	9/2/03	16:01					3				2		X	X									1360762
trip Blank	9/2/03						1				2		X										

Special Instructions:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Karen Baer	9/2	17:33			
			Received By:	9/3/03	820

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

TestAmerica INCORPORATED

Sample NonConformance/COC Revision Form

Initiated by:	Bwright	**Phone:**	904-296-6001	NC Closed	☑
Client Name:	TERRAINE, INC.	**Sample Range:**	136758-136762	Date Closed	9/3/2003
Client Contact:	JAMES YOUNG	**SDG:**	345257		
Client Account:	9463	**Analyst:**	280		
Date Created:	9/3/2003	**Supervisor:**	PAUL BUCKINGH		
NC #:	136762	**NC Type:**	NC Analytical 1		
Project Name:	CECIL FIELD DAY TAN	**XOM Terminal Manager:**			
Project Number:	04-41001/5				

Process: Other NC/Process: See Comment Section Below

Action: Corrected action not chosen

Corrected By: Kenny Bundy

Closed: ☑ Kbundy

Comments:

Comment added by: Bwright on 9/3/2003 2:29:38 PM
NA

****
Comment added by: Kbundy on 9/3/2003 2:26:02 PM
Per Jim Young, we were not to receive a Trip blank, dis-regard Trip Blank on the COC.

****
MISSING TRIP BLANK.

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9/ 8/03 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: CECIL FIELD DAY TANK 1
Project Number: 04-41001/5.
Laboratory Project Number: 345257.

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
CEF-293-22	03-A136758	9/ 2/03
CEF-293-9	03-A136759	9/ 2/03
VEW-3	03-A136760	9/ 2/03
VEW-4	03-A136761	9/ 2/03
VEW-5	03-A136762	9/ 2/03

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Sample Identification	Lab Number	Collection Date

These results relate only to the items tested.
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Report Approved By: _____ Report Date: 9/ 8/03

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

Laboratory Certification Number: E87358

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ANALYTICAL REPORT

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

Lab Number: 03-A136758
Sample ID: CEF-293-22
Sample Type: Water
Site ID: 5

Date Collected: 9/ 2/03
Time Collected: 16:35
Date Received: 9/ 3/03
Time Received: 8:20
Page: 1

Project: 04-41001/5
Project Name: CECIL FIELD DAY TANK 1
Sampler: KAREN BAER

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.11	1.0	9/ 6/03	5:16	D. Harris	8270C-SIM	2676
Acenaphthylene	ND	ug/L	0.11	1.0	9/ 6/03	5:16	D. Harris	8270C-SIM	2676
Anthracene	ND	ug/L	0.11	1.0	9/ 6/03	5:16	D. Harris	8270C-SIM	2676
Benzo(a)anthracene	ND	ug/L	0.11	1.0	9/ 6/03	5:16	D. Harris	8270C-SIM	2676
Benzo(a)pyrene	ND	ug/L	0.11	1.0	9/ 6/03	5:16	D. Harris	8270C-SIM	2676
Benzo(b)fluoranthene	ND	ug/L	0.11	1.0	9/ 6/03	5:16	D. Harris	8270C-SIM	2676
Benzo(g,h,i)perylene	ND	ug/L	0.11	1.0	9/ 6/03	5:16	D. Harris	8270C-SIM	2676
Benzo(k)fluoranthene	ND	ug/L	0.11	1.0	9/ 6/03	5:16	D. Harris	8270C-SIM	2676
Chrysene	ND	ug/L	0.11	1.0	9/ 6/03	5:16	D. Harris	8270C-SIM	2676
Dibenz(a,h)anthracene	ND	ug/L	0.11	1.0	9/ 6/03	5:16	D. Harris	8270C-SIM	2676
Fluoranthene	ND	ug/L	0.11	1.0	9/ 6/03	5:16	D. Harris	8270C-SIM	2676
Fluorene	ND	ug/L	0.11	1.0	9/ 6/03	5:16	D. Harris	8270C-SIM	2676
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1.0	9/ 6/03	5:16	D. Harris	8270C-SIM	2676
2-Methylnaphthalene	0.96	ug/L	0.11	1.0	9/ 6/03	5:16	D. Harris	8270C-SIM	2676
Naphthalene	ND	ug/L	0.11	1.0	9/ 6/03	5:16	D. Harris	8270C-SIM	2676
Phenanthrene	0.12	ug/L	0.11	1.0	9/ 6/03	5:16	D. Harris	8270C-SIM	2676
Pyrene	ND	ug/L	0.11	1.0	9/ 6/03	5:16	D. Harris	8270C-SIM	2676
1-Methylnaphthalene	1.34	ug/L	0.11	1.0	9/ 6/03	5:16	D. Harris	8270C-SIM	2676
VOLATILE ORGANICS									
Benzene	ND	ug/L	1.0	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Toluene	ND	ug/L	1.0	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Ethylbenzene	ND	ug/L	1.0	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Xylenes (Total)	ND	ug/L	1.0	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
1,2-Dibromoethane	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Naphthalene	ND	ug/L	5.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A136758
Sample ID: CEF-293-22
Project: 04-41001/5

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Acetone	ND	ug/L	25.0	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Bromobenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Bromochloromethane	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Bromoform	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Bromomethane	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
2-Butanone	ND	ug/L	25.0	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
n-Butylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
sec-Butylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
t-Butylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Carbon disulfide	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Carbon tetrachloride	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Chlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Chloroethane	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Chloroform	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Chloromethane	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
2-Chlorotoluene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
4-Chlorotoluene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Dibromochloromethane	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Dibromomethane	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
1,1-Dichloroethane	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
1,2-Dichloroethane	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
1,1-Dichloroethene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
1,2-Dichloropropane	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
1,3-Dichloropropane	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
2,2-Dichloropropane	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
1,1-Dichloropropene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Hexachlorobutadiene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A136758
Sample ID: CEF-293-22
Project: 04-41001/5

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2-Hexanone	ND	ug/L	5.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Isopropylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
4-Isopropyltoluene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Methylene chloride	ND	ug/L	2.50	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
n-Propylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Styrene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Tetrachloroethene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Trichloroethene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Vinyl chloride	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Bromodichloromethane	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719
Trichlorofluoromethane	ND	ug/L	1.00	1.0	9/ 5/03	13:19	S. Davis	8260B	2719

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	900. ml	1.0 ml	9/ 4/03		K. Turner	3510C

Surrogate	% Recovery	Target Range

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A136758
Sample ID: CEF-293-22
Project: 04-41001/5

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	112.	70. - 133.
VOA Surr Toluene-d8	106.	76. - 123.
VOA Surr, 4-BFB	106.	71. - 132.
VOA Surr, DBFM	108.	74. - 128.
BNA Surr-Nitrobenzene-d5	75.	34. - 107.
BNA Surr-2-Fluorobiphenyl	79.	40. - 96.
BNA Surr-Terphenyl-d14	65.	26. - 106.

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: 04-41001/5
Project Name: CECIL FIELD DAY TANK 1
Sampler: KAREN BAER

Lab Number: 03-A136759
Sample ID: CEF-293-9
Sample Type: Water
Site ID: 5

Date Collected: 9/ 2/03
Time Collected: 15:11
Date Received: 9/ 3/03
Time Received: 8:20
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	9/ 6/03	5:51	D. Harris	8270C-SIM	2676
Acenaphthylene	ND	ug/L	0.11	1.0	9/ 6/03	5:51	D. Harris	8270C-SIM	2676
Anthracene	ND	ug/L	0.11	1.0	9/ 6/03	5:51	D. Harris	8270C-SIM	2676
Benzo(a)anthracene	ND	ug/L	0.11	1.0	9/ 6/03	5:51	D. Harris	8270C-SIM	2676
Benzo(a)pyrene	ND	ug/L	0.11	1.0	9/ 6/03	5:51	D. Harris	8270C-SIM	2676
Benzo(b)fluoranthene	ND	ug/L	0.11	1.0	9/ 6/03	5:51	D. Harris	8270C-SIM	2676
Benzo(g,h,i)perylene	ND	ug/L	0.11	1.0	9/ 6/03	5:51	D. Harris	8270C-SIM	2676
Benzo(k)fluoranthene	ND	ug/L	0.11	1.0	9/ 6/03	5:51	D. Harris	8270C-SIM	2676
Chrysene	ND	ug/L	0.11	1.0	9/ 6/03	5:51	D. Harris	8270C-SIM	2676
Dibenz(a,h)anthracene	ND	ug/L	0.11	1.0	9/ 6/03	5:51	D. Harris	8270C-SIM	2676
Fluoranthene	ND	ug/L	0.11	1.0	9/ 6/03	5:51	D. Harris	8270C-SIM	2676
Fluorene	ND	ug/L	0.11	1.0	9/ 6/03	5:51	D. Harris	8270C-SIM	2676
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1.0	9/ 6/03	5:51	D. Harris	8270C-SIM	2676
2-Methylnaphthalene	ND	ug/L	0.11	1.0	9/ 6/03	5:51	D. Harris	8270C-SIM	2676
Naphthalene	0.36	ug/L	0.11	1.0	9/ 6/03	5:51	D. Harris	8270C-SIM	2676
Phenanthrene	ND	ug/L	0.11	1.0	9/ 6/03	5:51	D. Harris	8270C-SIM	2676
Pyrene	ND	ug/L	0.11	1.0	9/ 6/03	5:51	D. Harris	8270C-SIM	2676
1-Methylnaphthalene	0.20	ug/L	0.11	1.0	9/ 6/03	5:51	D. Harris	8270C-SIM	2676
VOLATILE ORGANICS									
Benzene	ND	ug/L	1.0	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Toluene	ND	ug/L	1.0	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Ethylbenzene	ND	ug/L	1.0	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Xylenes (Total)	ND	ug/L	1.0	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
1,2-Dibromoethane	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Naphthalene	ND	ug/L	5.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A136759
Sample ID: CEF-293-9
Project: 04-41001/5

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Acetone	ND	ug/L	25.0	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Bromobenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Bromochloromethane	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Bromoform	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Bromomethane	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
2-Butanone	ND	ug/L	25.0	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
n-Butylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
sec-Butylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
t-Butylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Carbon disulfide	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Carbon tetrachloride	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Chlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Chloroethane	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Chloroform	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Chloromethane	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
2-Chlorotoluene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
4-Chlorotoluene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Dibromochloromethane	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Dibromomethane	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
1,1-Dichloroethane	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
1,2-Dichloroethane	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
1,1-Dichloroethene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
1,2-Dichloropropane	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
1,3-Dichloropropane	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
2,2-Dichloropropane	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
1,1-Dichloropropene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Hexachlorobutadiene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A136759
Sample ID: CEF-293-9
Project: 04-41001/5

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2-Hexanone	ND	ug/L	5.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Isopropylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
4-Isopropyltoluene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Methylene chloride	ND	ug/L	2.50	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
n-Propylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Styrene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Tetrachloroethene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Trichloroethene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Vinyl chloride	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Bromodichloromethane	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719
Trichlorofluoromethane	ND	ug/L	1.00	1.0	9/ 5/03	13:48	S. Davis	8260B	2719

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	900. ml	1.0 ml	9/ 4/03		K. Turner	3510C

Surrogate	% Recovery	Target Range

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A136759
Sample ID: CEF-293-9
Project: 04-41001/5

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	106.	70. - 133.
VOA Surr Toluene-d8	105.	76. - 123.
VOA Surr, 4-BFB	106.	71. - 132.
VOA Surr, DBFM	104.	74. - 128.
BNA Surr-Nitrobenzene-d5	65.	34. - 107.
BNA Surr-2-Fluorobiphenyl	66.	40. - 96.
BNA Surr-Terphenyl-d14	67.	26. - 106.

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: 04-41001/5
Project Name: CECIL FIELD DAY TANK 1
Sampler: KAREN BAER

Lab Number: 03-A136760
Sample ID: VEW-3
Sample Type: Water
Site ID: 5

Date Collected: 9/ 2/03
Time Collected: 14:07
Date Received: 9/ 3/03
Time Received: 8:20
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	9/ 6/03	6:26	D. Harris	8270C-SIM	2676
Acenaphthylene	ND	ug/L	0.11	1.0	9/ 6/03	6:26	D. Harris	8270C-SIM	2676
Anthracene	ND	ug/L	0.11	1.0	9/ 6/03	6:26	D. Harris	8270C-SIM	2676
Benzo(a)anthracene	ND	ug/L	0.11	1.0	9/ 6/03	6:26	D. Harris	8270C-SIM	2676
Benzo(a)pyrene	ND	ug/L	0.11	1.0	9/ 6/03	6:26	D. Harris	8270C-SIM	2676
Benzo(b)fluoranthene	ND	ug/L	0.11	1.0	9/ 6/03	6:26	D. Harris	8270C-SIM	2676
Benzo(g,h,i)perylene	ND	ug/L	0.11	1.0	9/ 6/03	6:26	D. Harris	8270C-SIM	2676
Benzo(k)fluoranthene	ND	ug/L	0.11	1.0	9/ 6/03	6:26	D. Harris	8270C-SIM	2676
Chrysene	ND	ug/L	0.11	1.0	9/ 6/03	6:26	D. Harris	8270C-SIM	2676
Dibenz(a,h)anthracene	ND	ug/L	0.11	1.0	9/ 6/03	6:26	D. Harris	8270C-SIM	2676
Fluoranthene	ND	ug/L	0.11	1.0	9/ 6/03	6:26	D. Harris	8270C-SIM	2676
Fluorene	ND	ug/L	0.11	1.0	9/ 6/03	6:26	D. Harris	8270C-SIM	2676
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1.0	9/ 6/03	6:26	D. Harris	8270C-SIM	2676
2-Methylnaphthalene	ND	ug/L	0.11	1.0	9/ 6/03	6:26	D. Harris	8270C-SIM	2676
Naphthalene	ND	ug/L	0.11	1.0	9/ 6/03	6:26	D. Harris	8270C-SIM	2676
Phenanthrene	ND	ug/L	0.11	1.0	9/ 6/03	6:26	D. Harris	8270C-SIM	2676
Pyrene	ND	ug/L	0.11	1.0	9/ 6/03	6:26	D. Harris	8270C-SIM	2676
1-Methylnaphthalene	ND	ug/L	0.11	1.0	9/ 6/03	6:26	D. Harris	8270C-SIM	2676
VOLATILE ORGANICS									
Benzene	ND	ug/L	1.0	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Toluene	ND	ug/L	1.0	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Ethylbenzene	ND	ug/L	1.0	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Xylenes (Total)	ND	ug/L	1.0	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
1,2-Dibromoethane	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Naphthalene	ND	ug/L	5.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A136760
Sample ID: VEW-3
Project: 04-41001/5
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Acetone	ND	ug/L	25.0	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Bromobenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Bromochloromethane	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Bromoform	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Bromomethane	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
2-Butanone	ND	ug/L	25.0	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
n-Butylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
sec-Butylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
t-Butylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Carbon disulfide	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Carbon tetrachloride	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Chlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Chloroethane	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Chloroform	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Chloromethane	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
2-Chlorotoluene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
4-Chlorotoluene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Dibromochloromethane	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Dibromomethane	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
1,1-Dichloroethane	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
1,2-Dichloroethane	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
1,1-Dichloroethene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
1,2-Dichloropropane	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
1,3-Dichloropropane	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
2,2-Dichloropropane	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
1,1-Dichloropropene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Hexachlorobutadiene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A136760
Sample ID: VEW-3
Project: 04-41001/5

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2-Hexanone	ND	ug/L	5.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Isopropylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
4-Isopropyltoluene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Methylene chloride	ND	ug/L	2.50	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
n-Propylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Styrene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Tetrachloroethene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Trichloroethene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Vinyl chloride	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Bromodichloromethane	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719
Trichlorofluoromethane	ND	ug/L	1.00	1.0	9/ 5/03	14:18	S. Davis	8260B	2719

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	900. ml	1.0 ml	9/ 4/03		K. Turner	3510C

Surrogate	% Recovery	Target Range

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A136760
Sample ID: VEW-3
Project: 04-41001/5

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	109.	70. - 133.
VOA Surr Toluene-d8	103.	76. - 123.
VOA Surr, 4-BFB	108.	71. - 132.
VOA Surr, DBFM	107.	74. - 128.
BNA Surr-Nitrobenzene-d5	72.	34. - 107.
BNA Surr-2-Fluorobiphenyl	72.	40. - 96.
BNA Surr-Terphenyl-d14	60.	26. - 106.

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

Lab Number: 03-A136761
Sample ID: VEW-4
Sample Type: Water
Site ID: 5

Project: 04-41001/5
Project Name: CECIL FIELD DAY TANK 1
Sampler: KAREN BAER

Date Collected: 9/ 2/03
Time Collected: 17:07
Date Received: 9/ 3/03
Time Received: 8:20
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	9/ 6/03	7:00	D. Harris	8270C-SIM	2676
Acenaphthylene	ND	ug/L	0.11	1.0	9/ 6/03	7:00	D. Harris	8270C-SIM	2676
Anthracene	ND	ug/L	0.11	1.0	9/ 6/03	7:00	D. Harris	8270C-SIM	2676
Benzo(a)anthracene	ND	ug/L	0.11	1.0	9/ 6/03	7:00	D. Harris	8270C-SIM	2676
Benzo(a)pyrene	ND	ug/L	0.11	1.0	9/ 6/03	7:00	D. Harris	8270C-SIM	2676
Benzo(b)fluoranthene	ND	ug/L	0.11	1.0	9/ 6/03	7:00	D. Harris	8270C-SIM	2676
Benzo(g,h,i)perylene	ND	ug/L	0.11	1.0	9/ 6/03	7:00	D. Harris	8270C-SIM	2676
Benzo(k)fluoranthene	ND	ug/L	0.11	1.0	9/ 6/03	7:00	D. Harris	8270C-SIM	2676
Chrysene	ND	ug/L	0.11	1.0	9/ 6/03	7:00	D. Harris	8270C-SIM	2676
Dibenz(a,h)anthracene	ND	ug/L	0.11	1.0	9/ 6/03	7:00	D. Harris	8270C-SIM	2676
Fluoranthene	ND	ug/L	0.11	1.0	9/ 6/03	7:00	D. Harris	8270C-SIM	2676
Fluorene	ND	ug/L	0.11	1.0	9/ 6/03	7:00	D. Harris	8270C-SIM	2676
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1.0	9/ 6/03	7:00	D. Harris	8270C-SIM	2676
2-Methylnaphthalene	ND	ug/L	0.11	1.0	9/ 6/03	7:00	D. Harris	8270C-SIM	2676
Naphthalene	ND	ug/L	0.11	1.0	9/ 6/03	7:00	D. Harris	8270C-SIM	2676
Phenanthrene	ND	ug/L	0.11	1.0	9/ 6/03	7:00	D. Harris	8270C-SIM	2676
Pyrene	ND	ug/L	0.11	1.0	9/ 6/03	7:00	D. Harris	8270C-SIM	2676
1-Methylnaphthalene	ND	ug/L	0.11	1.0	9/ 6/03	7:00	D. Harris	8270C-SIM	2676
VOLATILE ORGANICS									
Benzene	ND	ug/L	1.0	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Toluene	ND	ug/L	1.0	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Ethylbenzene	ND	ug/L	1.0	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Xylenes (Total)	ND	ug/L	1.0	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
1,2-Dibromoethane	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Naphthalene	ND	ug/L	5.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A136761
Sample ID: VEW-4
Project: 04-41001/5
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Acetone	ND	ug/L	25.0	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Bromobenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Bromochloromethane	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Bromoform	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Bromomethane	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
2-Butanone	ND	ug/L	25.0	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
n-Butylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
sec-Butylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
t-Butylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Carbon disulfide	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Carbon tetrachloride	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Chlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Chloroethane	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Chloroform	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Chloromethane	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
2-Chlorotoluene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
4-Chlorotoluene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Dibromochloromethane	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Dibromomethane	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
1,1-Dichloroethane	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
1,2-Dichloroethane	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
1,1-Dichloroethene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
1,2-Dichloropropane	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
1,3-Dichloropropane	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
2,2-Dichloropropane	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
1,1-Dichloropropene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Hexachlorobutadiene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A136761
Sample ID: VEW-4
Project: 04-41001/5

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2-Hexanone	ND	ug/L	5.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Isopropylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
4-Isopropyltoluene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Methylene chloride	ND	ug/L	2.50	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
n-Propylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Styrene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Tetrachloroethene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Trichloroethene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Vinyl chloride	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Bromodichloromethane	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719
Trichlorofluoromethane	ND	ug/L	1.00	1.0	9/ 5/03	14:47	S. Davis	8260B	2719

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	900. ml	1.0 ml	9/ 4/03		K. Turner	3510C

Surrogate	% Recovery	Target Range

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A136761
Sample ID: VEW-4
Project: 04-41001/5

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	109.	70. - 133.
VOA Surr Toluene-d8	101.	76. - 123.
VOA Surr, 4-BFB	108.	71. - 132.
VOA Surr, DBFM	105.	74. - 128.
BNA Surr-Nitrobenzene-d5	64.	34. - 107.
BNA Surr-2-Fluorobiphenyl	70.	40. - 96.
BNA Surr-Terphenyl-d14	60.	26. - 106.

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: 04-41001/5
Project Name: CECIL FIELD DAY TANK 1
Sampler: KAREN BAER

Lab Number: 03-A136762
Sample ID: VEW-5
Sample Type: Water
Site ID: 5

Date Collected: 9/ 2/03
Time Collected: 16:01
Date Received: 9/ 3/03
Time Received: 8:20
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	9/ 6/03	7:35	D. Harris	8270C-SIM	2676
Acenaphthylene	ND	ug/L	0.11	1.0	9/ 6/03	7:35	D. Harris	8270C-SIM	2676
Anthracene	ND	ug/L	0.11	1.0	9/ 6/03	7:35	D. Harris	8270C-SIM	2676
Benzo(a)anthracene	ND	ug/L	0.11	1.0	9/ 6/03	7:35	D. Harris	8270C-SIM	2676
Benzo(a)pyrene	ND	ug/L	0.11	1.0	9/ 6/03	7:35	D. Harris	8270C-SIM	2676
Benzo(b)fluoranthene	ND	ug/L	0.11	1.0	9/ 6/03	7:35	D. Harris	8270C-SIM	2676
Benzo(g,h,i)perylene	ND	ug/L	0.11	1.0	9/ 6/03	7:35	D. Harris	8270C-SIM	2676
Benzo(k)fluoranthene	ND	ug/L	0.11	1.0	9/ 6/03	7:35	D. Harris	8270C-SIM	2676
Chrysene	ND	ug/L	0.11	1.0	9/ 6/03	7:35	D. Harris	8270C-SIM	2676
Dibenz(a,h)anthracene	ND	ug/L	0.11	1.0	9/ 6/03	7:35	D. Harris	8270C-SIM	2676
Fluoranthene	ND	ug/L	0.11	1.0	9/ 6/03	7:35	D. Harris	8270C-SIM	2676
Fluorene	ND	ug/L	0.11	1.0	9/ 6/03	7:35	D. Harris	8270C-SIM	2676
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1.0	9/ 6/03	7:35	D. Harris	8270C-SIM	2676
2-Methylnaphthalene	ND	ug/L	0.11	1.0	9/ 6/03	7:35	D. Harris	8270C-SIM	2676
Naphthalene	ND	ug/L	0.11	1.0	9/ 6/03	7:35	D. Harris	8270C-SIM	2676
Phenanthrene	ND	ug/L	0.11	1.0	9/ 6/03	7:35	D. Harris	8270C-SIM	2676
Pyrene	ND	ug/L	0.11	1.0	9/ 6/03	7:35	D. Harris	8270C-SIM	2676
1-Methylnaphthalene	ND	ug/L	0.11	1.0	9/ 6/03	7:35	D. Harris	8270C-SIM	2676
VOLATILE ORGANICS									
Benzene	ND	ug/L	1.0	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Toluene	ND	ug/L	1.0	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Ethylbenzene	ND	ug/L	1.0	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Xylenes (Total)	ND	ug/L	1.0	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
1,2-Dibromoethane	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Naphthalene	ND	ug/L	5.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A136762
Sample ID: VEW-5
Project: 04-41001/5
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Acetone	ND	ug/L	25.0	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Bromobenzene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Bromochloromethane	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Bromoform	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Bromomethane	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
2-Butanone	ND	ug/L	25.0	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
n-Butylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
sec-Butylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
t-Butylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Carbon disulfide	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Carbon tetrachloride	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Chlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Chloroethane	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Chloroform	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Chloromethane	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
2-Chlorotoluene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
4-Chlorotoluene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Dibromochloromethane	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Dibromomethane	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
1,1-Dichloroethane	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
1,2-Dichloroethane	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
1,1-Dichloroethene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
1,2-Dichloropropane	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
1,3-Dichloropropane	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
2,2-Dichloropropane	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
1,1-Dichloropropene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Hexachlorobutadiene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A136762
Sample ID: VEW-5
Project: 04-41001/5

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2-Hexanone	ND	ug/L	5.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Isopropylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
4-Isopropyltoluene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Methylene chloride	ND	ug/L	2.50	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
n-Propylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Styrene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Tetrachloroethene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Trichloroethene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Vinyl chloride	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Bromodichloromethane	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719
Trichlorofluoromethane	ND	ug/L	1.00	1.0	9/ 5/03	15:17	S. Davis	8260B	2719

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	900. ml	1.0 ml	9/ 4/03		K. Turner	3510C

Surrogate	% Recovery	Target Range

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A136762
Sample ID: VEW-5
Project: 04-41001/5

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	109.	70. - 133.
VOA Surr Toluene-d8	104.	76. - 123.
VOA Surr, 4-BFB	107.	71. - 132.
VOA Surr, DBFM	107.	74. - 128.
BNA Surr-Nitrobenzene-d5	74.	34. - 107.
BNA Surr-2-Fluorobiphenyl	80.	40. - 96.
BNA Surr-Terphenyl-d14	68.	26. - 106.

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: 04-41001/5
Project Name: CECIL FIELD DAY TANK 1
Page: 1
Laboratory Receipt Date: 9/ 3/03

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 PARAMETERS								
Benzene	mg/l	< 0.0010	0.0504	0.0500	101	68 - 136	2719	03-A136177
Chlorobenzene	mg/l	< 0.00100	0.0555	0.0500	111	78 - 125	2719	03-A136177
1,1-Dichloroethene	mg/l	< 0.00100	0.0494	0.0500	99	67 - 141	2719	03-A136177
Toluene	mg/l	< 0.0010	0.0466	0.0500	93	73 - 133	2719	03-A136177
Trichloroethene	mg/l	< 0.00100	0.0575	0.0500	115	69 - 141	2719	03-A136177
Tetrachloroethene	mg/l	< 0.00100	0.0515	0.0500	103	71 - 134	2719	03-A136177
VOA Surr 1,2-DCA-d4	% Rec				105	70 - 133	2719	
VOA Surr Toluene-d8	% Rec				96	76 - 123	2719	
VOA Surr, 4-BFB	% Rec				99	71 - 132	2719	
VOA Surr, DBFM	% Rec				105	74 - 128	2719	
EXTRACTABLE PARAMETERS								
Acenaphthene	mg/l	< 0.00010	0.00080	0.00100	80	28 - 106	2676	BLANK
Pyrene	mg/l	< 0.00010	0.00084	0.00100	84	35 - 118	2676	BLANK
BNA Surr-Nitrobenzene-d5	% Rec				71	34 - 107	2676	
BNA Surr-2-Fluorobiphenyl	% Rec				76	40 - 96	2676	
BNA Surr-Terphenyl-d14	% Rec				69	26 - 106	2676	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/5
Project Name: CECIL FIELD DAY TANK 1
Page: 2
Laboratory Receipt Date: 9/ 3/03

VOA PARAMETERS						
Benzene	mg/l	0.0504	0.0509	0.99	22.	2719
Chlorobenzene	mg/l	0.0555	0.0557	0.36	17.	2719
1,1-Dichloroethene	mg/l	0.0494	0.0509	2.99	21.	2719
Toluene	mg/l	0.0466	0.0461	1.08	22.	2719
Trichloroethene	mg/l	0.0575	0.0561	2.46	22.	2719
Tetrachloroethene	mg/l	0.0515	0.0555	7.48	19.	2719
VOA Surr 1,2-DCA-d4	% Rec		98.			2719
VOA Surr Toluene-d8	% Rec		93.			2719
VOA Surr, 4-BFB	% Rec		102.			2719
VOA Surr, DBFM	% Rec		101.			2719
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00080	0.00077	3.82	33.	2676
Pyrene	mg/l	0.00084	0.00076	10.00	32.	2676
BNA Surr-Nitrobenzene-d5	% Rec		68.			2676
BNA Surr-2-Fluorobiphenyl	% Rec		70.			2676
BNA Surr-Terphenyl-d14	% Rec		65.			2676

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
VOA PARAMETERS						
Acetone	mg/l	0.250	0.296	118	52 - 151	2719
Benzene	mg/l	0.0500	0.0487	97	78 - 125	2719
Bromobenzene	mg/l	0.0500	0.0465	93	75 - 127	2719
Bromochloromethane	mg/l	0.0500	0.0513	103	72 - 136	2719
Bromoform	mg/l	0.0500	0.0497	99	63 - 130	2719
Bromomethane	mg/l	0.0500	0.0487	97	46 - 156	2719
2-Butanone	mg/l	0.250	0.243	97	67 - 143	2719
n-Butylbenzene	mg/l	0.0500	0.0469	94	65 - 132	2719
sec-Butylbenzene	mg/l	0.0500	0.0486	97	72 - 129	2719
t-Butylbenzene	mg/l	0.0500	0.0485	97	43 - 128	2719

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/5
Project Name: CECIL FIELD DAY TANK 1
Page: 3
Laboratory Receipt Date: 9/ 3/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Carbon disulfide	mg/l	0.0500	0.0498	100	68 - 139	2719
Carbon tetrachloride	mg/l	0.0500	0.0536	107	62 - 140	2719
Chlorobenzene	mg/l	0.0500	0.0517	103	82 - 120	2719
Chloroethane	mg/l	0.0500	0.0537	107	61 - 142	2719
Chloroform	mg/l	0.0500	0.0524	105	75 - 129	2719
Chloromethane	mg/l	0.0500	0.0582	116	46 - 147	2719
2-Chlorotoluene	mg/l	0.0500	0.0543	109	76 - 126	2719
4-Chlorotoluene	mg/l	0.0500	0.0485	97	77 - 125	2719
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0397	79	64 - 132	2719
Dibromochloromethane	mg/l	0.0500	0.0529	106	74 - 132	2719
1,2-Dibromoethane	mg/l	0.0500	0.0516	103	77 - 128	2719
Dibromomethane	mg/l	0.0500	0.0498	100	74 - 133	2719
1,2-Dichlorobenzene	mg/l	0.0500	0.0498	100	77 - 129	2719
1,3-Dichlorobenzene	mg/l	0.0500	0.0517	103	79 - 125	2719
1,4-Dichlorobenzene	mg/l	0.0500	0.0499	100	78 - 121	2719
Dichlorodifluoromethane	mg/l	0.0500	0.0627	125	45 - 149	2719
1,1-Dichloroethane	mg/l	0.0500	0.0478	96	75 - 129	2719
1,2-Dichloroethane	mg/l	0.0500	0.0545	109	69 - 135	2719
1,1-Dichloroethene	mg/l	0.0500	0.0524	105	73 - 132	2719
cis-1,2-Dichloroethene	mg/l	0.0500	0.0489	98	72 - 132	2719
trans-1,2-Dichloroethene	mg/l	0.0500	0.0508	102	71 - 134	2719
1,2-Dichloropropane	mg/l	0.0500	0.0478	96	81 - 126	2719
1,3-Dichloropropane	mg/l	0.0500	0.0515	103	83 - 127	2719
2,2-Dichloropropane	mg/l	0.0500	0.0412	82	39 - 151	2719
1,1-Dichloropropene	mg/l	0.0500	0.0519	104	77 - 128	2719
cis-1,3-Dichloropropene	mg/l	0.0500	0.0493	99	71 - 133	2719
trans-1,3-Dichloropropene	mg/l	0.0500	0.0474	95	69 - 131	2719
Ethylbenzene	mg/l	0.0500	0.0507	101	79 - 125	2719
Hexachlorobutadiene	mg/l	0.0500	0.0487	97	60 - 134	2719
2-Hexanone	mg/l	0.250	0.262	105	68 - 145	2719
Isopropylbenzene	mg/l	0.0500	0.0513	103	75 - 128	2719

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/5
Project Name: CECIL FIELD DAY TANK 1
Page: 4
Laboratory Receipt Date: 9/ 3/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
4-Isopropyltoluene	mg/l	0.0500	0.0534	107	73 - 128	2719
4-Methyl-2-pentanone	mg/l	0.250	0.281	112	71 - 143	2719
Methylene chloride	mg/l	0.0500	0.0516	103	74 - 131	2719
Naphthalene	mg/l	0.0500	0.0452	90	62 - 142	2719
n-Propylbenzene	mg/l	0.0500	0.0481	96	73 - 128	2719
Styrene	mg/l	0.0500	0.0524	105	80 - 126	2719
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0495	99	78 - 132	2719
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0449	90	70 - 135	2719
Tetrachloroethene	mg/l	0.0500	0.0513	103	74 - 128	2719
Toluene	mg/l	0.0500	0.0547	109	79 - 125	2719
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0478	96	69 - 136	2719
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0436	87	69 - 131	2719
1,1,1-Trichloroethane	mg/l	0.0500	0.0514	103	72 - 132	2719
1,1,2-Trichloroethane	mg/l	0.0500	0.0509	102	80 - 133	2719
Trichloroethene	mg/l	0.0500	0.0532	106	74 - 133	2719
1,2,3-Trichloropropane	mg/l	0.0500	0.0475	95	69 - 136	2719
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0487	97	73 - 130	2719
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0504	101	73 - 130	2719
Vinyl chloride	mg/l	0.0500	0.0572	114	63 - 140	2719
Xylenes (Total)	mg/l	0.150	0.156	104	78 - 127	2719
Bromodichloromethane	mg/l	0.0500	0.0503	101	77 - 132	2719
Trichlorofluoromethane	mg/l	0.0500	0.0546	109	59 - 142	2719
VOA Surr 1,2-DCA-d4	% Rec			97	70 - 133	2719
VOA Surr Toluene-d8	% Rec			109	76 - 123	2719
VOA Surr, 4-BFB	% Rec			101	71 - 132	2719
VOA Surr, DBFM	% Rec			101	74 - 128	2719

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/5
Project Name: CECIL FIELD DAY TANK 1
Page: 5
Laboratory Receipt Date: 9/ 3/03

EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00100	0.00083	83	28 - 106	2676
Acenaphthylene	mg/l	0.00100	0.00070	70	26 - 106	2676
Anthracene	mg/l	0.00100	0.00076	76	30 - 116	2676
Benzo(a)anthracene	mg/l	0.00100	0.00077	77	38 - 128	2676
Benzo(a)pyrene	mg/l	0.00100	0.00068	68	34 - 117	2676
Benzo(b)fluoranthene	mg/l	0.00100	0.00079	79	37 - 132	2676
Benzo(g,h,i)perylene	mg/l	0.00100	0.00077	77	28 - 122	2676
Benzo(k)fluoranthene	mg/l	0.00100	0.00084	84	35 - 128	2676
Chrysene	mg/l	0.00100	0.00090	90	42 - 126	2676
Dibenz(a,h)anthracene	mg/l	0.00100	0.00072	72	35 - 124	2676
2-Methylnaphthalene	mg/l	0.00100	0.00061	61	31 - 108	2676
Naphthalene	mg/l	0.00100	0.00074	74	9 - 120	2676
Phenanthrene	mg/l	0.00100	0.00085	85	34 - 116	2676
Pyrene	mg/l	0.00100	0.00079	79	35 - 118	2676
1-Methylnaphthalene	mg/l	0.00100	0.00071	71	31 - 112	2676
BNA Surr-Nitrobenzene-d5	% Rec			76	34 - 107	2676
BNA Surr-2-Fluorobiphenyl	% Rec			79	40 - 96	2676
BNA Surr-Terphenyl-d14	% Rec			71	26 - 106	2676

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

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/5
Project Name: CECIL FIELD DAY TANK 1
Page: 6
Laboratory Receipt Date: 9/ 3/03

VOA PARAMETERS					
Acetone	< 0.00470	mg/l	2719	9/ 5/03	7:55
Benzene	< 0.0005	mg/l	2719	9/ 5/03	7:55
Bromobenzene	< 0.00030	mg/l	2719	9/ 5/03	7:55
Bromochloromethane	< 0.00030	mg/l	2719	9/ 5/03	7:55
Bromoform	< 0.00060	mg/l	2719	9/ 5/03	7:55
Bromomethane	< 0.00060	mg/l	2719	9/ 5/03	7:55
2-Butanone	< 0.00310	mg/l	2719	9/ 5/03	7:55
n-Butylbenzene	< 0.00010	mg/l	2719	9/ 5/03	7:55
sec-Butylbenzene	< 0.00030	mg/l	2719	9/ 5/03	7:55
t-Butylbenzene	< 0.00030	mg/l	2719	9/ 5/03	7:55
Carbon disulfide	< 0.00020	mg/l	2719	9/ 5/03	7:55
Carbon tetrachloride	< 0.00040	mg/l	2719	9/ 5/03	7:55
Chlorobenzene	< 0.00020	mg/l	2719	9/ 5/03	7:55
Chloroethane	< 0.00100	mg/l	2719	9/ 5/03	7:55
Chloroform	< 0.00080	mg/l	2719	9/ 5/03	7:55
Chloromethane	< 0.00070	mg/l	2719	9/ 5/03	7:55
2-Chlorotoluene	< 0.00040	mg/l	2719	9/ 5/03	7:55
4-Chlorotoluene	< 0.00050	mg/l	2719	9/ 5/03	7:55
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	2719	9/ 5/03	7:55
Dibromochloromethane	< 0.00050	mg/l	2719	9/ 5/03	7:55
1,2-Dibromoethane	< 0.00040	mg/l	2719	9/ 5/03	7:55
Dibromomethane	< 0.00090	mg/l	2719	9/ 5/03	7:55
1,2-Dichlorobenzene	< 0.00020	mg/l	2719	9/ 5/03	7:55
1,3-Dichlorobenzene	< 0.00030	mg/l	2719	9/ 5/03	7:55
1,4-Dichlorobenzene	< 0.00040	mg/l	2719	9/ 5/03	7:55
Dichlorodifluoromethane	< 0.00050	mg/l	2719	9/ 5/03	7:55
1,1-Dichloroethane	< 0.00020	mg/l	2719	9/ 5/03	7:55
1,2-Dichloroethane	< 0.00060	mg/l	2719	9/ 5/03	7:55
1,1-Dichloroethene	< 0.00060	mg/l	2719	9/ 5/03	7:55
cis-1,2-Dichloroethene	< 0.00060	mg/l	2719	9/ 5/03	7:55
trans-1,2-Dichloroethene	< 0.00050	mg/l	2719	9/ 5/03	7:55
1,2-Dichloropropane	< 0.00040	mg/l	2719	9/ 5/03	7:55
1,3-Dichloropropane	< 0.00040	mg/l	2719	9/ 5/03	7:55
2,2-Dichloropropane	< 0.00040	mg/l	2719	9/ 5/03	7:55
1,1-Dichloropropene	< 0.00050	mg/l	2719	9/ 5/03	7:55

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/5
Project Name: CECIL FIELD DAY TANK 1
Page: 7
Laboratory Receipt Date: 9/ 3/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
cis-1,3-Dichloropropene	< 0.00030	mg/l	2719	9/ 5/03	7:55
trans-1,3-Dichloropropene	< 0.00050	mg/l	2719	9/ 5/03	7:55
Ethylbenzene	< 0.0003	mg/l	2719	9/ 5/03	7:55
Hexachlorobutadiene	< 0.00080	mg/l	2719	9/ 5/03	7:55
2-Hexanone	< 0.00420	mg/l	2719	9/ 5/03	7:55
Isopropylbenzene	< 0.00040	mg/l	2719	9/ 5/03	7:55
4-Isopropyltoluene	< 0.00060	mg/l	2719	9/ 5/03	7:55
4-Methyl-2-pentanone	< 0.00490	mg/l	2719	9/ 5/03	7:55
Methylene chloride	< 0.00240	mg/l	2719	9/ 5/03	7:55
Naphthalene	< 0.00120	mg/l	2719	9/ 5/03	7:55
n-Propylbenzene	< 0.00030	mg/l	2719	9/ 5/03	7:55
Styrene	< 0.00040	mg/l	2719	9/ 5/03	7:55
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	2719	9/ 5/03	7:55
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	2719	9/ 5/03	7:55
Tetrachloroethene	< 0.00040	mg/l	2719	9/ 5/03	7:55
Toluene	< 0.0006	mg/l	2719	9/ 5/03	7:55
1,2,3-Trichlorobenzene	< 0.00100	mg/l	2719	9/ 5/03	7:55
1,2,4-Trichlorobenzene	< 0.00060	mg/l	2719	9/ 5/03	7:55
1,1,1-Trichloroethane	< 0.00070	mg/l	2719	9/ 5/03	7:55
1,1,2-Trichloroethane	< 0.00040	mg/l	2719	9/ 5/03	7:55
Trichloroethene	< 0.00040	mg/l	2719	9/ 5/03	7:55
1,2,3-Trichloropropane	< 0.00060	mg/l	2719	9/ 5/03	7:55
1,2,4-Trimethylbenzene	< 0.0003	mg/l	2719	9/ 5/03	7:55
1,3,5-Trimethylbenzene	< 0.00100	mg/l	2719	9/ 5/03	7:55
Vinyl chloride	< 0.00050	mg/l	2719	9/ 5/03	7:55
Xylenes (Total)	< 0.0009	mg/l	2719	9/ 5/03	7:55
Bromodichloromethane	< 0.00030	mg/l	2719	9/ 5/03	7:55
Trichlorofluoromethane	< 0.00040	mg/l	2719	9/ 5/03	7:55

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
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PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/5
Project Name: CECIL FIELD DAY TANK 1
Page: 8
Laboratory Receipt Date: 9/ 3/03

VOA Surr 1,2-DCA-d4	106.	% Rec	2719	9/ 5/03	7:55
VOA Surr Toluene-d8	104.	% Rec	2719	9/ 5/03	7:55
VOA Surr, 4-BFB	109.	% Rec	2719	9/ 5/03	7:55
VOA Surr, DBFM	107.	% Rec	2719	9/ 5/03	7:55
EXTRACTABLE PARAMETERS					
Acenaphthene	< 0.00010	mg/l	2676	9/ 5/03	23:30
Acenaphthylene	< 0.00010	mg/l	2676	9/ 5/03	23:30
Anthracene	< 0.00010	mg/l	2676	9/ 5/03	23:30
Benzo(a)anthracene	< 0.00010	mg/l	2676	9/ 5/03	23:30
Benzo(a)pyrene	< 0.00010	mg/l	2676	9/ 5/03	23:30
Benzo(b)fluoranthene	< 0.00010	mg/l	2676	9/ 5/03	23:30
Benzo(g,h,i)perylene	< 0.00010	mg/l	2676	9/ 5/03	23:30
Benzo(k)fluoranthene	< 0.00010	mg/l	2676	9/ 5/03	23:30
Chrysene	< 0.00010	mg/l	2676	9/ 5/03	23:30
Dibenz(a,h)anthracene	< 0.00010	mg/l	2676	9/ 5/03	23:30
Fluoranthene	< 0.00010	mg/l	2676	9/ 5/03	23:30
Fluorene	< 0.00010	mg/l	2676	9/ 5/03	23:30
Indeno(1,2,3-cd)pyrene	< 0.00010	mg/l	2676	9/ 5/03	23:30
2-Methylnaphthalene	< 0.00010	mg/l	2676	9/ 5/03	23:30
Naphthalene	< 0.00010	mg/l	2676	9/ 5/03	23:30
Phenanthrene	< 0.00010	mg/l	2676	9/ 5/03	23:30
Pyrene	< 0.00010	mg/l	2676	9/ 5/03	23:30
1-Methylnaphthalene	< 0.00010	mg/l	2676	9/ 5/03	23:30
BNA Surr-Nitrobenzene-d5	77.	% Rec	2676	9/ 5/03	23:30
BNA Surr-2-Fluorobiphenyl	84.	% Rec	2676	9/ 5/03	23:30
BNA Surr-Terphenyl-d14	74.	% Rec	2676	9/ 5/03	23:30

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 345257

ANALYTICAL REPORT

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

Project: 04-41001/5
Project Name: DAY TANK 1
Sampler: KAREN BAER

Lab Number: 03-A138136
Sample ID: VEW7
Sample Type: Water
Site ID:

Date Collected: 9/ 4/03
Time Collected: 12:57
Date Received: 9/ 5/03
Time Received: 8:30

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	
EXTRACTABLE ORGANICS								
Acenaphthene	ND	ug/L	0.10	1.0	9/ 7/03	12:35	D. Harris	82
Acenaphthylene	ND	ug/L	0.10	1.0	9/ 7/03	12:35	D. Harris	82
Anthracene	ND	ug/L	0.10	1.0	9/ 7/03	12:35	D. Harris	82
Benzo(a)anthracene	ND	ug/L	0.10	1.0	9/ 7/03	12:35	D. Harris	82
Benzo(a)pyrene	ND	ug/L	0.10	1.0	9/ 7/03	12:35	D. Harris	82
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	9/ 7/03	12:35	D. Harris	82
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	9/ 7/03	12:35	D. Harris	82
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	9/ 7/03	12:35	D. Harris	82
Chrysene	ND	ug/L	0.10	1.0	9/ 7/03	12:35	D. Harris	82
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	9/ 7/03	12:35	D. Harris	82
Fluoranthene	ND	ug/L	0.10	1.0	9/ 7/03	12:35	D. Harris	82
Fluorene	ND	ug/L	0.10	1.0	9/ 7/03	12:35	D. Harris	82
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	9/ 7/03	12:35	D. Harris	82
2-Methylnaphthalene	ND	ug/L	0.10	1.0	9/ 7/03	12:35	D. Harris	82
Naphthalene	ND	ug/L	0.10	1.0	9/ 7/03	12:35	D. Harris	82
Phenanthrene	ND	ug/L	0.10	1.0	9/ 7/03	12:35	D. Harris	82
Pyrene	ND	ug/L	0.10	1.0	9/ 7/03	12:35	D. Harris	82
1-Methylnaphthalene	0.13	ug/L	0.10	1.0	9/ 7/03	12:35	D. Harris	82
VOLATILE ORGANICS								
Benzene	ND	ug/L	1.0	1.0	9/ 7/03	22:49	J.Haley	82
Toluene	ND	ug/L	1.0	1.0	9/ 7/03	22:49	J.Haley	82
Ethylbenzene	ND	ug/L	1.0	1.0	9/ 7/03	22:49	J.Haley	82
Xylenes (Total)	ND	ug/L	1.0	1.0	9/ 7/03	22:49	J.Haley	82
1,2-Dibromoethane	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
Naphthalene	ND	ug/L	5.00	1.0	9/ 7/03	22:49	J.Haley	82
Acetone	ND	ug/L	25.0	1.0	9/ 7/03	22:49	J.Haley	82
Bromobenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
Bromochloromethane	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
Bromoform	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
Bromomethane	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
2-Butanone	ND	ug/L	25.0	1.0	9/ 7/03	22:49	J.Haley	82
n-Butylbenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
sec-Butylbenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
t-Butylbenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82

Carbon disulfide	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
Carbon tetrachloride	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
Chlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
Chloroethane	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
Chloroform	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
Chloromethane	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
2-Chlorotoluene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
4-Chlorotoluene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	9/ 7/03	22:49	J.Haley	82
Dibromochloromethane	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
Dibromomethane	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
1,1-Dichloroethane	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
1,2-Dichloroethane	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
1,1-Dichloroethene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
1,2-Dichloropropane	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
1,3-Dichloropropane	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
2,2-Dichloropropane	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
1,1-Dichloropropene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
Hexachlorobutadiene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
2-Hexanone	ND	ug/L	5.00	1.0	9/ 7/03	22:49	J.Haley	82
Isopropylbenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
4-Isopropyltoluene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	9/ 7/03	22:49	J.Haley	82
Methylene chloride	ND	ug/L	2.50	1.0	9/ 7/03	22:49	J.Haley	82
n-Propylbenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
Styrene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A138
Sample ID: VEW7

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
Tetrachloroethene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
Trichloroethene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	9/ 7/03	22:49	J.Haley	82
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
Vinyl chloride	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82
Bromodichloromethane	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82

Trichlorofluoromethane	ND	ug/L	1.00	1.0	9/ 7/03	22:49	J.Haley	82(

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/ 6/03		K. Turner	3510C

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	88.	70. - 133.
VOA Surr Toluene-d8	98.	76. - 123.
VOA Surr, 4-BFB	90.	71. - 132.
VOA Surr, DBFM	96.	74. - 128.
BNA Surr-Nitrobenzene-d5	64.	34. - 107.
BNA Surr-2-Fluorobiphenyl	80.	40. - 96.
BNA Surr-Terphenyl-d14	63.	26. - 106.

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.

ANALYTICAL REPORT

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

Project: 04-41001/5
Project Name: DAY TANK 1
Sampler: KAREN BAER

Lab Number: 03-A138137
Sample ID: VEW2
Sample Type: Water
Site ID:

Date Collected: 9/ 4/03
Time Collected: 13:40
Date Received: 9/ 5/03
Time Received: 8:30

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	
EXTRACTABLE ORGANICS								
Acenaphthene	ND	ug/L	0.10	1.0	9/ 7/03	13:10	D. Harris	82
Acenaphthylene	ND	ug/L	0.10	1.0	9/ 7/03	13:10	D. Harris	82
Anthracene	ND	ug/L	0.10	1.0	9/ 7/03	13:10	D. Harris	82
Benzo(a)anthracene	ND	ug/L	0.10	1.0	9/ 7/03	13:10	D. Harris	82
Benzo(a)pyrene	ND	ug/L	0.10	1.0	9/ 7/03	13:10	D. Harris	82
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	9/ 7/03	13:10	D. Harris	82
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	9/ 7/03	13:10	D. Harris	82
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	9/ 7/03	13:10	D. Harris	82
Chrysene	ND	ug/L	0.10	1.0	9/ 7/03	13:10	D. Harris	82
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	9/ 7/03	13:10	D. Harris	82
Fluoranthene	ND	ug/L	0.10	1.0	9/ 7/03	13:10	D. Harris	82
Fluorene	ND	ug/L	0.10	1.0	9/ 7/03	13:10	D. Harris	82
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	9/ 7/03	13:10	D. Harris	82
2-Methylnaphthalene	0.54	ug/L	0.10	1.0	9/ 7/03	13:10	D. Harris	82
Naphthalene	ND	ug/L	0.10	1.0	9/ 7/03	13:10	D. Harris	82
Phenanthrene	ND	ug/L	0.10	1.0	9/ 7/03	13:10	D. Harris	82
Pyrene	ND	ug/L	0.10	1.0	9/ 7/03	13:10	D. Harris	82
1-Methylnaphthalene	1.40	ug/L	0.10	1.0	9/ 7/03	13:10	D. Harris	82
VOLATILE ORGANICS								
Benzene	ND	ug/L	1.0	1.0	9/ 7/03	23:18	J.Haley	82
Toluene	ND	ug/L	1.0	1.0	9/ 7/03	23:18	J.Haley	82
Ethylbenzene	ND	ug/L	1.0	1.0	9/ 7/03	23:18	J.Haley	82
Xylenes (Total)	ND	ug/L	1.0	1.0	9/ 7/03	23:18	J.Haley	82
1,2-Dibromoethane	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
Naphthalene	ND	ug/L	5.00	1.0	9/ 7/03	23:18	J.Haley	82
Acetone	ND	ug/L	25.0	1.0	9/ 7/03	23:18	J.Haley	82
Bromobenzene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
Bromochloromethane	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
Bromoform	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
Bromomethane	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
2-Butanone	ND	ug/L	25.0	1.0	9/ 7/03	23:18	J.Haley	82

n-Butylbenzene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
sec-Butylbenzene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
t-Butylbenzene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
Carbon disulfide	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
Carbon tetrachloride	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
Chlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
Chloroethane	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
Chloroform	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
Chloromethane	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
2-Chlorotoluene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
4-Chlorotoluene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	9/ 7/03	23:18	J.Haley	82
Dibromochloromethane	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
Dibromomethane	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
1,1-Dichloroethane	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
1,2-Dichloroethane	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
1,1-Dichloroethene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
1,2-Dichloropropane	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
1,3-Dichloropropane	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
2,2-Dichloropropane	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
1,1-Dichloropropene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
Hexachlorobutadiene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
2-Hexanone	ND	ug/L	5.00	1.0	9/ 7/03	23:18	J.Haley	82
Isopropylbenzene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
4-Isopropyltoluene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	9/ 7/03	23:18	J.Haley	82
Methylene chloride	ND	ug/L	2.50	1.0	9/ 7/03	23:18	J.Haley	82
n-Propylbenzene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
Styrene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A138
Sample ID: VEW2

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
Tetrachloroethene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
Trichloroethene	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	9/ 7/03	23:18	J.Haley	82

1,3,5-Trimethylbenzene	3.90	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
Vinyl chloride	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
Bromodichloromethane	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82
Trichlorofluoromethane	ND	ug/L	1.00	1.0	9/ 7/03	23:18	J.Haley	82

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	9/ 6/03		K. Turner	3510C

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	87.	70. - 133.
VOA Surr Toluene-d8	95.	76. - 123.
VOA Surr, 4-BFB	90.	71. - 132.
VOA Surr, DBFM	94.	74. - 128.
BNA Surr-Nitrobenzene-d5	368. #	34. - 107.
BNA Surr-2-Fluorobiphenyl	98. #	40. - 96.
BNA Surr-Terphenyl-d14	55.	26. - 106.

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.
SIMS 8270 surrogates outside QC range due to sample matrix.

End of Sample Report.

ANALYTICAL REPORT

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

Project: 04-41001/5
Project Name: DAY TANK 1
Sampler: KAREN BAER

Lab Number: 03-A138138
Sample ID: EQUIPMENT BLAN
Sample Type: Water
Site ID:

Date Collected: 9/ 4/03
Time Collected: 13:57
Date Received: 9/ 5/03
Time Received: 8:30

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	
EXTRACTABLE ORGANICS								
Acenaphthene	ND	ug/L	0.10	1.0	9/ 7/03	13:45	D. Harris	82
Acenaphthylene	ND	ug/L	0.10	1.0	9/ 7/03	13:45	D. Harris	82
Anthracene	ND	ug/L	0.10	1.0	9/ 7/03	13:45	D. Harris	82
Benzo(a)anthracene	ND	ug/L	0.10	1.0	9/ 7/03	13:45	D. Harris	82
Benzo(a)pyrene	ND	ug/L	0.10	1.0	9/ 7/03	13:45	D. Harris	82
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	9/ 7/03	13:45	D. Harris	82
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	9/ 7/03	13:45	D. Harris	82
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	9/ 7/03	13:45	D. Harris	82
Chrysene	ND	ug/L	0.10	1.0	9/ 7/03	13:45	D. Harris	82
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	9/ 7/03	13:45	D. Harris	82
Fluoranthene	ND	ug/L	0.10	1.0	9/ 7/03	13:45	D. Harris	82
Fluorene	ND	ug/L	0.10	1.0	9/ 7/03	13:45	D. Harris	82
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	9/ 7/03	13:45	D. Harris	82
2-Methylnaphthalene	ND	ug/L	0.10	1.0	9/ 7/03	13:45	D. Harris	82
Naphthalene	ND	ug/L	0.10	1.0	9/ 7/03	13:45	D. Harris	82
Phenanthrene	ND	ug/L	0.10	1.0	9/ 7/03	13:45	D. Harris	82
Pyrene	ND	ug/L	0.10	1.0	9/ 7/03	13:45	D. Harris	82
1-Methylnaphthalene	ND	ug/L	0.10	1.0	9/ 7/03	13:45	D. Harris	82
VOLATILE ORGANICS								
Benzene	ND	ug/L	1.0	1.0	9/ 7/03	22:20	J.Haley	82
Toluene	ND	ug/L	1.0	1.0	9/ 7/03	22:20	J.Haley	82
Ethylbenzene	ND	ug/L	1.0	1.0	9/ 7/03	22:20	J.Haley	82
Xylenes (Total)	ND	ug/L	1.0	1.0	9/ 7/03	22:20	J.Haley	82
1,2-Dibromoethane	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
Naphthalene	ND	ug/L	5.00	1.0	9/ 7/03	22:20	J.Haley	82
Acetone	ND	ug/L	25.0	1.0	9/ 7/03	22:20	J.Haley	82
Bromobenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82

Bromochloromethane	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
Bromoform	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
Bromomethane	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
2-Butanone	ND	ug/L	25.0	1.0	9/ 7/03	22:20	J.Haley	82
n-Butylbenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
sec-Butylbenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
t-Butylbenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
Carbon disulfide	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
Carbon tetrachloride	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
Chlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
Chloroethane	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
Chloroform	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
Chloromethane	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
2-Chlorotoluene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
4-Chlorotoluene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	9/ 7/03	22:20	J.Haley	82
Dibromochloromethane	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
Dibromomethane	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
1,1-Dichloroethane	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
1,2-Dichloroethane	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
1,1-Dichloroethene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
1,2-Dichloropropane	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
1,3-Dichloropropane	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
2,2-Dichloropropane	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
1,1-Dichloropropene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
Hexachlorobutadiene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
2-Hexanone	ND	ug/L	5.00	1.0	9/ 7/03	22:20	J.Haley	82
Isopropylbenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
4-Isopropyltoluene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	9/ 7/03	22:20	J.Haley	82
Methylene chloride	ND	ug/L	2.50	1.0	9/ 7/03	22:20	J.Haley	82
n-Propylbenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
Styrene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A138
Sample ID: EQUIPMENT BLANK

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
Tetrachloroethene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82

1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
Trichloroethene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	9/ 7/03	22:20	J.Haley	82
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
Vinyl chloride	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
Bromodichloromethane	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82
Trichlorofluoromethane	ND	ug/L	1.00	1.0	9/ 7/03	22:20	J.Haley	82

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	950. ml	1.0 ml	9/ 6/03		K. Turner	3510C

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	89.	70. - 133.
VOA Surr Toluene-d8	100.	76. - 123.
VOA Surr, 4-BFB	93.	71. - 132.
VOA Surr, DBFM	96.	74. - 128.
BNA Surr-Nitrobenzene-d5	49.	34. - 107.
BNA Surr-2-Fluorobiphenyl	61.	40. - 96.
BNA Surr-Terphenyl-d14	53.	26. - 106.

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.

ANALYTICAL REPORT

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

Project: 04-41001/5
Project Name: DAY TANK 1
Sampler: KAREN BAER

Lab Number: 03-A138139
Sample ID: Trip Blank
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 9/ 5/03
Time Received: 8:30

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	
VOLATILE ORGANICS								
Benzene	ND	ug/L	1.0	1.0	9/ 7/03	19:58	J.Haley	82
Toluene	ND	ug/L	1.0	1.0	9/ 7/03	19:58	J.Haley	82
Ethylbenzene	ND	ug/L	1.0	1.0	9/ 7/03	19:58	J.Haley	82
Xylenes (Total)	ND	ug/L	1.0	1.0	9/ 7/03	19:58	J.Haley	82
1,2-Dibromoethane	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
Naphthalene	ND	ug/L	5.00	1.0	9/ 7/03	19:58	J.Haley	82
Acetone	ND	ug/L	25.0	1.0	9/ 7/03	19:58	J.Haley	82
Bromobenzene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
Bromochloromethane	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
Bromoform	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
Bromomethane	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
2-Butanone	ND	ug/L	25.0	1.0	9/ 7/03	19:58	J.Haley	82
n-Butylbenzene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
sec-Butylbenzene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
t-Butylbenzene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
Carbon disulfide	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
Carbon tetrachloride	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
Chlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
Chloroethane	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
Chloroform	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
Chloromethane	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
2-Chlorotoluene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
4-Chlorotoluene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	9/ 7/03	19:58	J.Haley	82

Dibromochloromethane	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
Dibromomethane	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
1,1-Dichloroethane	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
1,2-Dichloroethane	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
1,1-Dichloroethene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
1,2-Dichloropropane	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
1,3-Dichloropropane	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
2,2-Dichloropropane	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
1,1-Dichloropropene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
Hexachlorobutadiene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
2-Hexanone	ND	ug/L	5.00	1.0	9/ 7/03	19:58	J.Haley	82
Isopropylbenzene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
4-Isopropyltoluene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	9/ 7/03	19:58	J.Haley	82
Methylene chloride	ND	ug/L	2.50	1.0	9/ 7/03	19:58	J.Haley	82
n-Propylbenzene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
Styrene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
Tetrachloroethene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
Trichloroethene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	9/ 7/03	19:58	J.Haley	82
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
Vinyl chloride	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
Bromodichloromethane	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82
Trichlorofluoromethane	ND	ug/L	1.00	1.0	9/ 7/03	19:58	J.Haley	82

Surrogate	% Recovery	Target Range

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A138
Sample ID: Trip Blank

Page 2

Surrogate	% Recovery	Target Range

VOA Surr 1,2-DCA-d4	85.	70. - 133.
VOA Surr Toluene-d8	97.	76. - 123.
VOA Surr, 4-BFB	92.	71. - 132.
VOA Surr, DBFM	94.	74. - 128.

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.

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/5
Project Name: DAY TANK 1
Page: 1
Laboratory Receipt Date: 9/ 5/03

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined ana
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
VOA PARAMETERS						
Benzene	mg/l	< 0.0010	0.0497	0.0500	99	68 - 136
Chlorobenzene	mg/l	< 0.00100	0.0501	0.0500	100	78 - 125
1,1-Dichloroethene	mg/l	< 0.00100	0.0484	0.0500	97	67 - 141
Toluene	mg/l	< 0.0010	0.0510	0.0500	102	73 - 133
Trichloroethene	mg/l	< 0.00100	0.0490	0.0500	98	69 - 141
Tetrachloroethene	mg/l	< 0.00100	0.0518	0.0500	104	71 - 134

VOA Surr 1,2-DCA-d4	% Rec				82	70 - 133
VOA Surr Toluene-d8	% Rec				102	76 - 123
VOA Surr, 4-BFB	% Rec				91	71 - 132
VOA Surr, DBFM	% Rec				93	74 - 128
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	< 0.00010	0.00081	0.00100	81	28 - 106
Pyrene	mg/l	< 0.00010	0.00074	0.00100	74	35 - 118
BNA Surr-Nitrobenzene-d5	% Rec				62	34 - 107
BNA Surr-2-Fluorobiphenyl	% Rec				79	40 - 96
BNA Surr-Terphenyl-d14	% Rec				66	26 - 106

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
VOA PARAMETERS						
Benzene	mg/l	0.0497	0.0527	5.86	22.	5131
Chlorobenzene	mg/l	0.0501	0.0541	7.68	17.	5131
1,1-Dichloroethene	mg/l	0.0484	0.0511	5.43	21.	5131
Toluene	mg/l	0.0510	0.0526	3.09	22.	5131
Trichloroethene	mg/l	0.0490	0.0515	4.98	22.	5131
Tetrachloroethene	mg/l	0.0518	0.0568	9.21	19.	5131
VOA Surr 1,2-DCA-d4	% Rec		82.			5131
VOA Surr Toluene-d8	% Rec		104.			5131
VOA Surr, 4-BFB	% Rec		91.			5131
VOA Surr, DBFM	% Rec		92.			5131
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00081	0.00073	10.39	33.	3352
Pyrene	mg/l	0.00074	0.00069	6.99	32.	3352
BNA Surr-Nitrobenzene-d5	% Rec		59.			3352
BNA Surr-2-Fluorobiphenyl	% Rec		75.			3352
BNA Surr-Terphenyl-d14	% Rec		63.			3352

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Ba
VOA PARAMETERS						
Acetone	mg/l	0.250	0.242	97	52 - 151	5131
Benzene	mg/l	0.0500	0.0518	104	78 - 125	5131
Bromobenzene	mg/l	0.0500	0.0504	101	75 - 127	5131
Bromochloromethane	mg/l	0.0500	0.0518	104	72 - 136	5131
Bromoform	mg/l	0.0500	0.0454	91	63 - 130	5131
Bromomethane	mg/l	0.0500	0.0610	122	46 - 156	5131
2-Butanone	mg/l	0.250	0.233	93	67 - 143	5131
n-Butylbenzene	mg/l	0.0500	0.0544	109	65 - 132	5131
sec-Butylbenzene	mg/l	0.0500	0.0535	107	72 - 129	5131
t-Butylbenzene	mg/l	0.0500	0.0518	104	43 - 128	5131
Carbon disulfide	mg/l	0.0500	0.0485	97	68 - 139	5131
Carbon tetrachloride	mg/l	0.0500	0.0501	100	62 - 140	5131
Chlorobenzene	mg/l	0.0500	0.0539	108	82 - 120	5131
Chloroethane	mg/l	0.0500	0.0500	100	61 - 142	5131
Chloroform	mg/l	0.0500	0.0496	99	75 - 129	5131
Chloromethane	mg/l	0.0500	0.0324	65	46 - 147	5131
2-Chlorotoluene	mg/l	0.0500	0.0540	108	76 - 126	5131
4-Chlorotoluene	mg/l	0.0500	0.0537	107	77 - 125	5131
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0359	72	64 - 132	5131

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/5
Project Name: DAY TANK 1
Page: 2
Laboratory Receipt Date: 9/ 5/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Bat
Dibromochloromethane	mg/l	0.0500	0.0481	96	74 - 132	5131
1,2-Dibromoethane	mg/l	0.0500	0.0491	98	77 - 128	5131
Dibromomethane	mg/l	0.0500	0.0506	101	74 - 133	5131
1,2-Dichlorobenzene	mg/l	0.0500	0.0527	105	77 - 129	5131
1,3-Dichlorobenzene	mg/l	0.0500	0.0526	105	79 - 125	5131
1,4-Dichlorobenzene	mg/l	0.0500	0.0539	108	78 - 121	5131
Dichlorodifluoromethane	mg/l	0.0500	0.0538	108	45 - 149	5131
1,1-Dichloroethane	mg/l	0.0500	0.0502	100	75 - 129	5131
1,2-Dichloroethane	mg/l	0.0500	0.0486	97	69 - 135	5131
1,1-Dichloroethene	mg/l	0.0500	0.0499	100	73 - 132	5131
cis-1,2-Dichloroethene	mg/l	0.0500	0.0511	102	72 - 132	5131
trans-1,2-Dichloroethene	mg/l	0.0500	0.0509	102	71 - 134	5131
1,2-Dichloropropane	mg/l	0.0500	0.0498	100	81 - 126	5131
1,3-Dichloropropane	mg/l	0.0500	0.0500	100	83 - 127	5131
2,2-Dichloropropane	mg/l	0.0500	0.0640	128	39 - 151	5131
1,1-Dichloropropene	mg/l	0.0500	0.0503	101	77 - 128	5131
cis-1,3-Dichloropropene	mg/l	0.0500	0.0486	97	71 - 133	5131
trans-1,3-Dichloropropene	mg/l	0.0500	0.0471	94	69 - 131	5131
Ethylbenzene	mg/l	0.0500	0.0531	106	79 - 125	5131
Hexachlorobutadiene	mg/l	0.0500	0.0528	106	60 - 134	5131
2-Hexanone	mg/l	0.250	0.242	97	68 - 145	5131
Isopropylbenzene	mg/l	0.0500	0.0534	107	75 - 128	5131
4-Isopropyltoluene	mg/l	0.0500	0.0544	109	73 - 128	5131
4-Methyl-2-pentanone	mg/l	0.250	0.238	95	71 - 143	5131
Methylene chloride	mg/l	0.0500	0.0506	101	74 - 131	5131
Naphthalene	mg/l	0.0500	0.0398	80	62 - 142	5131
n-Propylbenzene	mg/l	0.0500	0.0527	105	73 - 128	5131
Styrene	mg/l	0.0500	0.0543	109	80 - 126	5131
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0512	102	78 - 132	5131
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0493	99	70 - 135	5131
Tetrachloroethene	mg/l	0.0500	0.0548	110	74 - 128	5131
Toluene	mg/l	0.0500	0.0529	106	79 - 125	5131
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0393	79	69 - 136	5131
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0472	94	69 - 131	5131
1,1,1-Trichloroethane	mg/l	0.0500	0.0479	96	72 - 132	5131
1,1,2-Trichloroethane	mg/l	0.0500	0.0517	103	80 - 133	5131
Trichloroethene	mg/l	0.0500	0.0519	104	74 - 133	5131
1,2,3-Trichloropropane	mg/l	0.0500	0.0453	91	69 - 136	5131
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0537	107	73 - 130	5131
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0531	106	73 - 130	5131
Vinyl chloride	mg/l	0.0500	0.0534	107	63 - 140	5131
Xylenes (Total)	mg/l	0.150	0.159	106	78 - 127	5131
Bromodichloromethane	mg/l	0.0500	0.0464	93	77 - 132	5131
Trichlorofluoromethane	mg/l	0.0500	0.0552	110	59 - 142	5131
VOA Surr 1,2-DCA-d4	% Rec			88	70 - 133	5131
VOA Surr Toluene-d8	% Rec			104	76 - 123	5131
VOA Surr, 4-BFB	% Rec			94	71 - 132	5131
VOA Surr, DBFM	% Rec			99	74 - 128	5131
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00100	0.00080	80	28 - 106	3352

Acenaphthylene	mg/l	0.00100	0.00065	65	26 - 106	3352
Anthracene	mg/l	0.00100	0.00074	74	30 - 116	3352
Benzo(a)anthracene	mg/l	0.00100	0.00073	73	38 - 128	3352
Benzo(a)pyrene	mg/l	0.00100	0.00063	63	34 - 117	3352
Benzo(b)fluoranthene	mg/l	0.00100	0.00073	73	37 - 132	3352
Benzo(g,h,i)perylene	mg/l	0.00100	0.00070	70	28 - 122	3352
Benzo(k)fluoranthene	mg/l	0.00100	0.00073	73	35 - 128	3352
Chrysene	mg/l	0.00100	0.00084	84	42 - 126	3352
Dibenz(a,h)anthracene	mg/l	0.00100	0.00068	68	35 - 124	3352
2-Methylnaphthalene	mg/l	0.00100	0.00057	57	31 - 108	3352
Naphthalene	mg/l	0.00100	0.00070	70	9 - 120	3352
Phenanthrene	mg/l	0.00100	0.00085	85	34 - 116	3352
Pyrene	mg/l	0.00100	0.00072	72	35 - 118	3352
1-Methylnaphthalene	mg/l	0.00100	0.00066	66	31 - 112	3352
BNA Surr-Nitrobenzene-d5	% Rec			62	34 - 107	3352
BNA Surr-2-Fluorobiphenyl	% Rec			77	40 - 96	3352
BNA Surr-Terphenyl-d14	% Rec			69	26 - 106	3352

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/5
Project Name: DAY TANK 1
Page: 3
Laboratory Receipt Date: 9/ 5/03

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Du

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed

VOA PARAMETERS

Acetone	< 0.00470	mg/l	5131	9/ 7/03	19:29
Benzene	< 0.0005	mg/l	5131	9/ 7/03	19:29
Bromobenzene	< 0.00030	mg/l	5131	9/ 7/03	19:29
Bromochloromethane	< 0.00030	mg/l	5131	9/ 7/03	19:29
Bromoform	< 0.00060	mg/l	5131	9/ 7/03	19:29
Bromomethane	< 0.00060	mg/l	5131	9/ 7/03	19:29
2-Butanone	< 0.00310	mg/l	5131	9/ 7/03	19:29
n-Butylbenzene	< 0.00010	mg/l	5131	9/ 7/03	19:29
sec-Butylbenzene	< 0.00030	mg/l	5131	9/ 7/03	19:29
t-Butylbenzene	< 0.00030	mg/l	5131	9/ 7/03	19:29
Carbon disulfide	< 0.00020	mg/l	5131	9/ 7/03	19:29
Carbon tetrachloride	< 0.00040	mg/l	5131	9/ 7/03	19:29
Chlorobenzene	< 0.00020	mg/l	5131	9/ 7/03	19:29
Chloroethane	< 0.00100	mg/l	5131	9/ 7/03	19:29
Chloroform	< 0.00080	mg/l	5131	9/ 7/03	19:29
Chloromethane	< 0.00070	mg/l	5131	9/ 7/03	19:29
2-Chlorotoluene	< 0.00040	mg/l	5131	9/ 7/03	19:29
4-Chlorotoluene	< 0.00050	mg/l	5131	9/ 7/03	19:29
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	5131	9/ 7/03	19:29
Dibromochloromethane	< 0.00050	mg/l	5131	9/ 7/03	19:29
1,2-Dibromoethane	< 0.00040	mg/l	5131	9/ 7/03	19:29
Dibromomethane	< 0.00090	mg/l	5131	9/ 7/03	19:29
1,2-Dichlorobenzene	< 0.00020	mg/l	5131	9/ 7/03	19:29
1,3-Dichlorobenzene	< 0.00030	mg/l	5131	9/ 7/03	19:29
1,4-Dichlorobenzene	< 0.00040	mg/l	5131	9/ 7/03	19:29
Dichlorodifluoromethane	< 0.00050	mg/l	5131	9/ 7/03	19:29
1,1-Dichloroethane	< 0.00020	mg/l	5131	9/ 7/03	19:29
1,2-Dichloroethane	< 0.00060	mg/l	5131	9/ 7/03	19:29
1,1-Dichloroethene	< 0.00060	mg/l	5131	9/ 7/03	19:29
cis-1,2-Dichloroethene	< 0.00060	mg/l	5131	9/ 7/03	19:29
trans-1,2-Dichloroethene	< 0.00050	mg/l	5131	9/ 7/03	19:29
1,2-Dichloropropane	< 0.00040	mg/l	5131	9/ 7/03	19:29
1,3-Dichloropropane	< 0.00040	mg/l	5131	9/ 7/03	19:29
2,2-Dichloropropane	< 0.00040	mg/l	5131	9/ 7/03	19:29
1,1-Dichloropropene	< 0.00050	mg/l	5131	9/ 7/03	19:29
cis-1,3-Dichloropropene	< 0.00030	mg/l	5131	9/ 7/03	19:29
trans-1,3-Dichloropropene	< 0.00050	mg/l	5131	9/ 7/03	19:29
Ethylbenzene	< 0.0003	mg/l	5131	9/ 7/03	19:29
Hexachlorobutadiene	< 0.00080	mg/l	5131	9/ 7/03	19:29
2-Hexanone	< 0.00420	mg/l	5131	9/ 7/03	19:29
Isopropylbenzene	< 0.00040	mg/l	5131	9/ 7/03	19:29
4-Isopropyltoluene	< 0.00060	mg/l	5131	9/ 7/03	19:29
4-Methyl-2-pentanone	< 0.00490	mg/l	5131	9/ 7/03	19:29
Methylene chloride	< 0.00240	mg/l	5131	9/ 7/03	19:29
Naphthalene	< 0.00120	mg/l	5131	9/ 7/03	19:29
n-Propylbenzene	< 0.00030	mg/l	5131	9/ 7/03	19:29
Styrene	< 0.00040	mg/l	5131	9/ 7/03	19:29
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	5131	9/ 7/03	19:29
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	5131	9/ 7/03	19:29
Tetrachloroethene	< 0.00040	mg/l	5131	9/ 7/03	19:29
Toluene	< 0.0006	mg/l	5131	9/ 7/03	19:29
1,2,3-Trichlorobenzene	< 0.00100	mg/l	5131	9/ 7/03	19:29
1,2,4-Trichlorobenzene	< 0.00060	mg/l	5131	9/ 7/03	19:29
1,1,1-Trichloroethane	< 0.00070	mg/l	5131	9/ 7/03	19:29
1,1,2-Trichloroethane	< 0.00040	mg/l	5131	9/ 7/03	19:29
Trichloroethene	< 0.00040	mg/l	5131	9/ 7/03	19:29
1,2,3-Trichloropropane	< 0.00060	mg/l	5131	9/ 7/03	19:29
1,2,4-Trimethylbenzene	< 0.0003	mg/l	5131	9/ 7/03	19:29
1,3,5-Trimethylbenzene	< 0.00100	mg/l	5131	9/ 7/03	19:29
Vinyl chloride	< 0.00050	mg/l	5131	9/ 7/03	19:29
Xylenes (Total)	< 0.0009	mg/l	5131	9/ 7/03	19:29
Bromodichloromethane	< 0.00030	mg/l	5131	9/ 7/03	19:29

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/5
Project Name: DAY TANK 1
Page: 4
Laboratory Receipt Date: 9/ 5/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Trichlorofluoromethane	< 0.00040	mg/l	5131	9/ 7/03	19:29
VOA Surr 1,2-DCA-d4	85.	% Rec	5131	9/ 7/03	19:29
VOA Surr Toluene-d8	100.	% Rec	5131	9/ 7/03	19:29
VOA Surr, 4-BFB	93.	% Rec	5131	9/ 7/03	19:29
VOA Surr, DBFM	93.	% Rec	5131	9/ 7/03	19:29
EXTRACTABLE PARAMETERS					
Acenaphthene	< 0.00010	mg/l	3352	9/ 7/03	10:51
Acenaphthylene	< 0.00010	mg/l	3352	9/ 7/03	10:51
Anthracene	< 0.00010	mg/l	3352	9/ 7/03	10:51
Benzo(a)anthracene	< 0.00010	mg/l	3352	9/ 7/03	10:51
Benzo(a)pyrene	< 0.00010	mg/l	3352	9/ 7/03	10:51
Benzo(b)fluoranthene	< 0.00010	mg/l	3352	9/ 7/03	10:51
Benzo(g,h,i)perylene	< 0.00010	mg/l	3352	9/ 7/03	10:51
Benzo(k)fluoranthene	< 0.00010	mg/l	3352	9/ 7/03	10:51
Chrysene	< 0.00010	mg/l	3352	9/ 7/03	10:51
Dibenz(a,h)anthracene	< 0.00010	mg/l	3352	9/ 7/03	10:51
Fluoranthene	< 0.00010	mg/l	3352	9/ 7/03	10:51
Fluorene	< 0.00010	mg/l	3352	9/ 7/03	10:51
Indeno(1,2,3-cd)pyrene	< 0.00010	mg/l	3352	9/ 7/03	10:51
2-Methylnaphthalene	< 0.00010	mg/l	3352	9/ 7/03	10:51
Naphthalene	< 0.00010	mg/l	3352	9/ 7/03	10:51
Phenanthrene	< 0.00010	mg/l	3352	9/ 7/03	10:51
Pyrene	< 0.00010	mg/l	3352	9/ 7/03	10:51
1-Methylnaphthalene	< 0.00010	mg/l	3352	9/ 7/03	10:51
BNA Surr-Nitrobenzene-d5	66.	% Rec	3352	9/ 7/03	10:51
BNA Surr-2-Fluorobiphenyl	80.	% Rec	3352	9/ 7/03	10:51
BNA Surr-Terphenyl-d14	67.	% Rec	3352	9/ 7/03	10:51

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 345591

9/10/03 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: DAY TANK 1
Project Number: 04-41001/5.
Laboratory Project Number: 345591.

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.

Page 1

Sample Identification	Lab Number	Collection Date
VEW7	03-A138136	9/ 4/03
VEW2	03-A138137	9/ 4/03
EQUIPMENT BLANK	03-A138138	9/ 4/03
Trip Blank	03-A138139	

These results relate only to the items tested.
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Report Approved By: _____ Report Date: 9/ 9/03

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

Laboratory Certification Number: E87358

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ANALYTICAL REPORT

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

Lab Number: 03-A138139
Sample ID: Trip Blank
Sample Type: Water
Site ID:

Project: 04-41001/5
Project Name: DAY TANK 1
Sampler: KAREN BAER

Date Collected:
Time Collected:
Date Received: 9/ 5/03
Time Received: 8:30

APPENDIX B

3rd Quarter 2003 Groundwater Sampling Logs

GROUNDWATER SAMPLING LOG

TERRAINE

Project Information

Project No: 04-41001/5	Project Name: Day Tank 1 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2: Frank Rodriguez	Weather: Sunny
Sampling ID: 04-41001/5:CEF-293-09:9/2/2003		
Notes:		

Well Information

Well ID: **CEF-293-09**	Sampling Date: **9/2/2003**	
Well Diam (in): 2.0	Total Well Depth (ft): 14.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 77.36	Northing: 0	Easting: 0
Static Depth to Water (ft): 7.29	Well Capacity (gal): 1.09	

Purge Setup

Purge Method: Nomad Submersible	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: 15:00	Purge End: 15:11	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
15:04	7.45	0.50	0.00	0.91	26.48	718.0	5.84	-84.0	78.20	dark orange	slight HC
15:06	7.45	1.00	0.00	0.49	26.10	724.0	5.83	-86.0	73.20		
15:09	7.45	1.50	0.00	0.26	26.13	728.0	5.84	-88.0	61.30		
15:11	7.45	2.00	0.00	0.80	26.14	729.0	5.84	-90.0	60.50		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	9/2/2003	DO (mg/L):	0.93	DO:	0.00	Sulfate:	0.00
Sample Start Time:	15:11	Temp (*C):	26.10	CO2:	0.00	Sulfide:	0.00
Sample End Time:	15:20	SEC (uS/cm):	730.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	5.84	Ferrous Iron:	0.00		
Duplicate:	☐	ORP (mV):	-90.00	H2S:	0.00		
		Turb (NTU):	53.90	Manganese:	0.00		

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

GROUNDWATER SAMPLING LOG

TERRAINE

Project Information

Project No: 04-41001/5	Project Name: Day Tank 1 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2: Frank Rodriguez	Weather: Sunny
Sampling ID: 04-41001/5:CEF-293-22:9/2/2003		
Notes:		

Well Information

Well ID: **CEF-293-22**	Sampling Date: **9/2/2003**	
Well Diam (in): 2.0	Total Well Depth (ft): 14.70	Well Screen Interval (ft):
TOC Elevation (ft msl): 75.95	Northing: 0	Easting: 0
Static Depth to Water (ft): 6.34	Well Capacity (gal): 1.36	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 9.50
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 16:20	Purge End: 16:33	Total Volume Purged (gal): 3.00	

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
16:24	6.80	0.50	0.00	1.09	28.70	922.0	5.58	114.0	252.00	turbid	slight HC
16:26	6.80	1.00	0.00	0.92	28.76	934.0	5.58	110.0	218.00		
16:28	6.90	2.25	0.00	0.57	28.65	932.0	5.57	104.0	185.00		
16:30	6.95	2.50	0.00	0.73	28.59	927.0	5.57	92.0	147.00		
16:33	7.05	3.00	0.25	0.82	28.49	938.0	5.57	64.0	148.00		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	9/2/2003	DO (mg/L):	0.72	DO:	0.00	Sulfate:	0.00
Sample Start Time:	16:33	Temp (*C):	28.75	CO2:	0.00	Sulfide:	0.00
Sample End Time:	16:40	SEC (uS/cm):	929.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	5.57	Ferrous Iron:	0.00		
Duplicate:	☐	ORP (mV):	52.00	H2S:	0.00		
		Turb (NTU):	160.00	Manganese:	0.00		

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

GROUNDWATER SAMPLING LOG

TERRAINE

Project Information

Project No: 04-41001/5	Project Name: Day Tank 1 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2: Frank Rodriguez	Weather: Sunny
Sampling ID: 04-41001/5:VEW-02:9/4/2003		
Notes:		

Well Information

Well ID: **VEW-02**	Sampling Date: **9/4/2003**	
Well Diam (in): 2.0	Total Well Depth (ft): 16.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 75.86	Northing: 0	Easting: 0
Static Depth to Water (ft): 5.96	Well Capacity (gal): 1.63	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 9.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 13:18	Purge End: 13:38	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
13:28	6.18	0.60	0.00	2.11	26.83	370.0	5.53	-148.0	8.36	clear	slight HC
13:32	6.18	0.80	0.00	2.07	27.11	356.0	5.57	-157.0	6.06		
13:34	6.18	1.00	0.10	1.79	27.09	347.0	5.59	-162.0	5.00		
13:38	6.18	1.20	0.00	1.40	26.92	342.0	5.60	-164.0	5.18		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	9/4/2003	DO (mg/L):	1.34	DO:	0.00	Sulfate:	0.00
Sample Start Time:	13:38	Temp (*C):	26.85	CO2:	0.00	Sulfide:	0.00
Sample End Time:	13:44	SEC (uS/cm):	342.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	5.60	Ferrous Iron:	0.00		
Duplicate:	☐	ORP (mV):	-163.00	H2S:	0.00		
		Turb (NTU):	5.92	Manganese:	0.00		

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

GROUNDWATER SAMPLING LOG

TERRAINE

Project Information

Project No: 04-41001/5	Project Name: Day Tank 1 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2: Frank Rodriguez	Weather: "Cloudy, Sunny"
Sampling ID: 04-41001/5:VEW-03:9/2/2003		
Notes:		

Well Information

Well ID: **VEW-03**	Sampling Date: **9/2/2003**	
Well Diam (in): 2.0	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): 5.35	Well Capacity (gal): -0.87	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 9.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 13:50	Purge End: 14:03	Total Volume Purged (gal): 3.50	

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
13:51	5.45	0.50	0.00	1.26	28.08	317.0	5.16	153.0	169.00	turbid	none
13:53	5.45	1.50	0.00	0.67	27.66	310.0	5.12	160.0	100.00		
13:56	5.45	2.00	0.00	0.59	27.63	309.0	5.10	160.0	60.60		
13:58	5.45	2.50	0.00	0.54	27.60	309.0	5.09	161.0	45.70		
14:01	5.45	3.00	0.00	0.53	27.53	308.0	5.08	164.0	32.10		
14:03	5.45	3.50	0.00	0.51	27.40	306.0	5.06	166.0	25.90		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	9/2/2003	DO (mg/L):	0.00	DO:	0.00	Sulfate:	0.00
Sample Start Time:	14:03	Temp (*C):	0.00	CO2:	0.00	Sulfide:	0.00
Sample End Time:	14:07	SEC (uS/cm):	0.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	0.00	Ferrous Iron:	0.00		
Duplicate:	☐	ORP (mV):	0.00	H2S:	0.00		
		Turb (NTU):	0.00	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE

Project Information

Project No: 04-41001/5	Project Name: Day Tank 1 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2: Frank Rodriguez	Weather: Sunny
Sampling ID: 04-41001/5:VEW-04:9/2/2003		
Notes:		

Well Information

Well ID: **VEW-04**	Sampling Date: **9/2/2003**	
Well Diam (in): 2.0	Total Well Depth (ft): 15.10	Well Screen Interval (ft):
TOC Elevation (ft msl): 75.54	Northing: 0	Easting: 0
Static Depth to Water (ft): 5.80	Well Capacity (gal): 1.51	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 9.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 16:45	Purge End: 17:05	Total Volume Purged (gal): 4.00	

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
16:51	5.90	0.50	0.00	0.48	27.92	311.0	5.57	101.0	746.00	brown	none
16:52	5.90	1.00	0.00	0.34	27.83	300.0	5.51	102.0	575.00		
16:54	5.90	1.50	0.00	0.16	27.76	295.0	5.45	103.0	419.00		
16:57	5.90	2.00	0.00	0.09	27.84	294.0	5.40	104.0	255.00		
16:59	5.90	2.50	0.00	0.04	27.70	290.0	5.38	106.0	171.00		
17:01	5.90	3.00	0.00	0.03	27.71	286.0	5.37	106.0	86.20		
17:03	5.90	3.50	0.00	0.00	27.58	281.0	5.36	106.0	54.30		
17:05	5.90	4.00	0.00	0.00	27.57	277.0	5.35	106.0	33.30		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	9/2/2003	DO (mg/L):	0.00	DO:	0.00	Sulfate:	0.00
Sample Start Time:	17:05	Temp (*C):	27.53	CO2:	0.00	Sulfide:	0.00
Sample End Time:	17:10	SEC (uS/cm):	277.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	5.35	Ferrous Iron:	0.00		
Duplicate:	☐	ORP (mV):	106.00	H2S:	0.00		
		Turb (NTU):	25.10	Manganese:	0.00		

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

GROUNDWATER SAMPLING LOG

TERRAINE

Project Information

Project No: 04-41001/5	Project Name: Day Tank 1 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2: Frank Rodriguez	Weather: Sunny
Sampling ID: 04-41001/5:VEW-05:9/2/2003		
Notes:		

Well Information

Well ID: **VEW-05**	Sampling Date: **9/2/2003**	
Well Diam (in): 2.0	Total Well Depth (ft): 16.85	Well Screen Interval (ft):
TOC Elevation (ft msl): 74.63	Northing: 0	Easting: 0
Static Depth to Water (ft): 4.95	Well Capacity (gal): 1.94	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 9.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 15:35	Purge End: 15:59	Total Volume Purged (gal): 4.50	

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	0.00	0.25	0.00	0.88	29.13	306.0	5.80	82.0	173.00	turbid	none
15:42	4.98	0.75	0.00	0.84	28.46	304.0	5.55	98.0	251.00		
15:45	5.00	1.50	0.25	0.60	27.97	303.0	5.30	116.0	216.00		
15:48	5.00	2.00	0.00	0.45	27.80	310.0	5.12	128.0	157.00		
15:50	5.00	2.50	0.00	0.38	27.78	315.0	5.04	134.0	99.00		
15:52	5.00	3.00	0.00	0.21	27.68	318.0	4.96	141.0	73.20		
15:55	5.00	3.50	0.00	0.15	27.71	320.0	4.90	148.0	49.50		
15:57	5.00	4.00	0.00	0.12	27.70	320.0	4.87	153.0	33.30		
15:59	5.00	4.50	0.00	0.09	27.69	318.0	4.84	157.0	24.20		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	9/2/2003	DO (mg/L):	0.08	DO:	0.00	Sulfate:	0.00
Sample Start Time:	15:59	Temp (*C):	27.69	CO2:	0.00	Sulfide:	0.00
Sample End Time:	16:05	SEC (uS/cm):	319.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	4.84	Ferrous Iron:	0.00		
Duplicate:	☐	ORP (mV):	158.00	H2S:	0.00		
		Turb (NTU):	19.20	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE

Project Information

Project No: 04-41001/5	Project Name: Day Tank 1 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2: Frank Rodriguez	Weather: Sunny
Sampling ID: 04-41001/5:VEW-07:9/4/2003		
Notes:		

Well Information

Well ID: **VEW-07**	Sampling Date: **9/4/2003**	
Well Diam (in): 2.0	Total Well Depth (ft): 16.40	Well Screen Interval (ft):
TOC Elevation (ft msl): 76.44	Northing: 0	Easting: 0
Static Depth to Water (ft): 6.45	Well Capacity (gal): 1.62	

Purge Setup

Purge Method: Nomad Submersible	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: 12:40	Purge End: 12:55	Total Volume Purged (gal): 2.50	

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
12:43	6.58	0.50	0.00	0.27	26.33	296.0	4.89	-34.0	116.00	dark orange	sulfuric
12:46	6.58	1.00	0.00	1.10	25.68	309.0	4.94	-35.0	87.00		
12:50	6.59	1.50	0.00	1.84	25.38	314.0	4.98	-39.0	66.70		
12:52	6.59	2.00	0.00	2.07	25.32	315.0	4.98	-40.0	61.40		
12:55	6.59	2.50	0.25	2.20	25.25	315.0	5.00	-41.0	57.60		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	9/4/2003	DO (mg/L):	2.26	DO:	0.00	Sulfate:	0.00
Sample Start Time:	12:55	Temp (*C):	25.31	CO2:	0.00	Sulfide:	0.00
Sample End Time:	13:00	SEC (uS/cm):	318.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	5.01	Ferrous Iron:	0.00		
Duplicate:	☐	ORP (mV):	-42.00	H2S:	0.00		
		Turb (NTU):	52.50	Manganese:	0.00		

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

APPENDIX C

3rd Quarter 2003 Site Visit Reports

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: 7-3-03 Tech 1: [illegible] 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	24556	9:30	<-- Circle Status
	Depart: Up / Down	24556	10:00	<-- Circle Status
Biosparge System	Arrive: Up / Down			<-- Circle Status
	Depart: Up / Down			<-- Circle Status
Electric Service Meter Reading:	-262-	88900	10:00	

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

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)	60	32		
Design Flowrate (cfm)	10	10	10	
Actual Flowrate (cfm)			14	

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	7-3-03	9:30	TO-15

Signature [signature] 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: 7-11-03 [redacted] Tech 1: Robbie Beville 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			<-- Circle Status
	Depart: Up / Down			<-- Circle Status
Biosparge System	Arrive: Up / Down			<-- Circle Status
	Depart: Up / Down			<-- Circle Status
Electric Service Meter Reading:	--	--		

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

* Main GATE LOCKED

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)	15	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 _____ 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: 7-17-03 Tech 1: [illegible] 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			<-- Circle Status
	Depart: Up / Down			<-- Circle Status
Biosparge System	Arrive: Up / Down			<-- Circle Status
	Depart: Up / Down			<-- Circle Status
Electric Service Meter Reading:	--	–		

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

X Main Gate Locked

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 _____ 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: 7/24/03 Tech 1: Robert Benale 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	24587	9:00	<-- Circle Status
	Depart: Up / Down	24587	9:30	<-- Circle Status
Biosparge System	Arrive: Up / Down		900	<-- Circle Status
	Depart: Up / Down		9:30	<-- Circle Status
Electric Service Meter Reading:	- 1.95 -	89012		

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

* Raeser technician will be out next week to service compressor

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)	40	⊗		
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 _____ 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: 7-31-03 Tech 1: Robbie Bandle Tech 2: _____

Weekly Site Visit: 1.0, 2.0, 3.0, and 4.1 X 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	24628	9:00	<-- Circle Status
	Depart: Up / Down	24628	9:30	<-- Circle Status
Biosparge System	Arrive: Up / Down			<-- Circle Status
	Depart: Up / Down			<-- Circle Status
Electric Service Meter Reading:	- 2.88 -	89121	9:00	

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

X Kaeser tech notified to fix problem w/ system continuously shutting down.

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)	0	0		All PSI & Flowrates 0 due to
Design Flowrate (cfm)	10	10	10	
Actual Flowrate (cfm)			0	system down.

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 _____ Signature _____

Kaeser 800-279-3947

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: 24Sept03 1450 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		1450	<-- Circle Status
	Depart: Up / Down		1515	<-- Circle Status
Biosparge System	Arrive: Up / Down		1450	<-- Circle Status
	Depart: Up / Down		1515	<-- Circle Status
Electric Service Meter Reading:	–	–	91036 kWh	0.07 mark kW arrival

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

system down - construction in area/excavation 5 wells abandoned
yellow compressor total 25,134 hr
load 22.5 10 hr
power light on
departure yellow comp total 25,134.7
load 22.5 10

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

switch on pole flipped to ON - light switch?
green button on yellow compressor pushed to turn unit on time 1452
system RUN without incident for 15 min
turned off by power button on compressor 1510
access site 1515

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 24Sept03 Signature _____