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NAS CECIL FIELD, FL
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"2003 ANNUAL OPERATIONS AND MAINTENANCE STATUS REPORT FOR NUTRIENT INJECTION SYSTEM AT BUILDING 46 FORMER TANKS 46R, 46D, 46SUL AND 46UL NAS CECIL FIELD FL"
2/1/2004
TERRAINE INC ENVIRONMENTAL SERVICES

TERRAINE Environmental Consulting

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2003 Annual
Operation and Maintenance Status Report
January 1, 2003 – December 31, 2003

Nutrient Injection System

Building 46

Former Tanks 46R, 46D, 46SUL, and 46UL

Naval Air Station Cecil Field
Jacksonville, Florida

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

Submitted to:

U.S. Naval Facilities
Engineering Command
Southern Division

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Signature Page

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

PG : FL2090, REM : 6089

James L. Young, PG, REM President Terraine, Inc.	Date	Registration Nos.

Acronyms

acfh	actual cubic feet per hour
acfm	actual cubic feet per minute
bls	below land surface
BTEX	Benzene, Toluene, Ethylbenzene, and Xylene
CCI	CH2M HILL Constructors, Inc.
cfm	cubic feet per minute
CTO	Contract Task Order
EPA	Environmental Protection Agency
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FID	Flame Ionization Detector
FL PRO	Florida Petroleum Residual Organic
GCTL	Groundwater Cleanup Target Level
HLA	Harding Lawson Associates
LNAPL	light non-aqueous phase liquids
µg/L	micrograms per liter
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MTBE	Methyl-Tert Butyl Ether
NAS	Naval Air Station
NAVFAC	Naval Facilities Engineering Command
O&M	Operation and Maintenance
OVA	Organic Vapor Analyzer
PAHs	Polynuclear Aromatic Hydrocarbons
psig	pounds per square inch gauge
SAR	Site Assessment Report
SCTL	Soil Cleanup Target Level
TEP	Triethylphosphate
TRPH	Total Recoverable Petroleum Hydrocarbon
TtNUS	Tetra Tech NUS, Inc.
UST	Underground Storage Tank

1.0 Introduction

Terraine, 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 Building 46, 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 Annual 2003 O&M Report is to provide a summary of activities performed at the site during the period of January 1, 2003, to December 31, 2003.

1.1 Objective

The objective of the remedial action at the Building 46 site is to reduce the concentrations of petroleum-related contaminants in the groundwater and unsaturated soils to target levels specified by Florida Administrative Code (FAC) 62-777. Nutrient injection, using the PHOSter Nutrient Injection System, is the technology being used to achieve this objective.

1.2 Site History

Building 46 was the former base gas station that operated from 1946 to 1987. The station had a total of eight underground storage tanks (USTs), all of which were removed in June 1988. Four of the tanks, labeled as 46R, 46D, 46SUL, and 46UL, were installed in 1970 and were used for the storage of regular and unleaded gasoline and diesel fuel. These tanks were located adjacent to Building 46. The other four tanks were installed prior to 1970, and their contents are unknown. They were located just south of Building 46 (TtNUS June 2000).

A Site Assessment Report (SAR) prepared for Building 46 (Harding Lawson Associates [HLA], 1998) concluded that operation of the USTs had resulted in contamination of soil and groundwater with fuel-related compounds, including Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX), Methyl-Tert-Butyl Ether (MTBE), Naphthalene, and Total Recoverable Petroleum Hydrocarbons (TRPH). The SAR determined that an area of soil approximately 5,500 square feet at the location of the former USTs was highly contaminated to a depth of 7 feet below land surface (bls) and acted as a source of groundwater contamination. The SAR also established that groundwater contamination extends to the shallow (7 to 25 feet bls), intermediate (25 to 50 feet bls) and deep (50 to 92 feet bls) zones of the surficial aquifer over areas approximately 25,300 square feet (sq. ft.), 95,700 sq. ft., and 31,000 sq. ft., respectively.

To treat the impacted soil and groundwater and thereby achieve state-mandated cleanup target levels, a Nutrient Injection System was installed at the site during the period of November 2000 to January 2001 The Nutrient Injection System commenced operation on January 18, 2001.

1.3 Remediation System/Technology Description

The PHOSter Nutrient Injection System provides subsurface delivery of oxygen, nitrogen, and phosphorus to enhance the development of naturally occurring heterotrophic bacteria that have the capability of metabolizing petroleum wastes. A compressor is used to inject air as the oxygen source, and the airflow is mixed with nitrous oxide and vapor-phase Triethylphosphate (TEP) to provide nitrogen and phosphorus, respectively. Towards the end of cleanup operations, when contaminant concentrations have been reduced to the point where insufficient food (contaminant) is available to sustain an effective microorganism population, propane will also be injected as a carbon source (TtNUS June 2000).

The Building 46 Nutrient Injection System consists of two separate systems, labeled as the ***West System*** and the ***East System***. These two separate systems allow for even gas distribution and more effective treatment of the relatively large extent of the contaminant plume. The West System consists of eight intermediate injection wells (labeled CEF-46-I1 through CEF-46-I8), three deep injection wells (labeled CEF-46-D1 through CEF-46-D3), and a temporary trailer containing air compressors, injection gas storage containers, and associated piping and instrumentation. The East System consists of 8 intermediate injection wells (labeled CEF-46-BI1 through CEF-46-BI8), 11 deep injection wells (labeled CEF-46-BD1 through CEF-46-BD11), and a temporary trailer containing air compressors, injection gas storage containers, and associated piping and instrumentation. The intermediate injection wells are 40 feet deep with a screen interval from 35 to 40 feet bls, and the deep injection wells are 90 feet deep with a screen interval of 85 to 90 feet bls. The Nutrient Injection System is designed for each injection well to operate at a flow rate of 3 to 5 cubic feet per minute (cfm) at an injection pressure of 20-pounds-per-square-inch gauge (psig) for the intermediate wells and 50 psig for the deep wells. A map showing the locations of the injection wells is provided in **Appendix A**.

2.0 System Performance Monitoring

O&M checks of the system were performed daily for the first week of operation and periodically thereafter. System checks were performed daily during the first week of operation and periodically thereafter to coincide with the O&M check.

During an O&M check, a preventative maintenance checklist (based upon manufacturer's recommendations) is completed, and any required maintenance activity is performed. A system check consists of an O&M check and system performance monitoring, including reading of all meters and gauges.

2.1 Operational Efficiencies

2.1.1 West — Nutrient Injection System

	Period	To Date
Hours of Possible Operation	8760	25,872
Hours of Actual Operation	7557	22,916.3
Percent hours of Operation	86.3	88.6

NOTE: Hours of actual operation assumes 100% up-time for second and third quarter 2002 data, since this information has not made available to Terraine Inc.

2.1.2 East — Nutrient Injection System

	Period	To Date
Hours of Possible Operation	8760	25,872
Hours of Actual Operation	7418	22,237.3
Percent hours of Operation	84.7	86

NOTE: Hours of operation assumes 100% up-time for second and third quarter 2002 data, since this information has not been made available to Terraine Inc.

2.2 Summary of Maintenance and System Downtime

2.2.1 West — Nutrient Injection System

During the period of January 1, 2003, to December 31, 2003, the West Nutrient Injection System ran a total of 314.88 days out of a possible 365 days, experiencing 1208 hours of downtime. The system downtime was mainly the result of manual shutdowns for quarterly sampling events, data collection, and depressurization to allow for well repair.

2.2.2 East — Nutrient Injection System

During the period of January 1, 2003 to December 31, 2003, the East Nutrient Injection System ran a total of 309.08 days out of a possible 365 days, experiencing 1342 hours of downtime. The system downtime was mainly the result of manual shutdowns for quarterly sampling events, data collection, and depressurization to allow for well repair.

2.3 Pressure/Flow Rate Monitoring

2.3.1 West — Nutrient Injection System

The West Injection System is divided into two manifold legs. Leg #1 consists of intermediate injection wells CEF-46-I1, CEF-46-I2, CEF-46-I3, CEF-46-I4, CEF-46-I5, and CEF-46-I8. Leg #2 consists of intermediate injection wells CEF-46-I6 and CEF-46-I7, and deep injection wells CEF-46-D1, CEF-46-D2, and CEF-46-D3. During the third year of operation, the injection pressure at the compressors averaged 36.25 psig. The design pressure is 20 psig for intermediate injection wells and 50 psig for deep injection wells. Each individual injection well has its own separate pressure regulator. Individual injection well pressures are not measured; adjustments are based upon flow rates not pressure. The total gas injection flow rate averaged 8 actual cubic feet per minute (acfm) for Leg #1 and 6 acfm for Leg #2, compared to the combined design total gas injection flow rate of 18 to 30 acfm. The nitrous oxide injection rate averaged 0.425 actual cubic feet per hour (acfh) which is 0.043 percent by volume of airflow, compared to the design nitrous oxide injection rate of 0.07 to 0.10 percent by volume of airflow. The TEP injection mass for the third year of operation totaled 41.83 pounds, compared to the design injection mass of 99 pounds per year. The data for the injection wells and injection system are tabulated in **Tables 2-1** and **2-2**, respectively.

2.3.2 East — Nutrient Injection System

The East Injection System is divided into two manifold legs. Leg #1 consists of intermediate injection wells CEF-46-BI2, CEF-46-BI3, CEF-46-BI4, CEF-46-BI5, CEF-46-BI6, CEF-46-BI7, and CEF-46-BI8, and deep injection wells CEF-46-BD9, CEF-46-BD10, and CEF-46-BD11. Leg #2 consists of intermediate injection well CEF-46-BI1, and deep injection wells CEF-46-BD1, CEF-46-BD2, CEF-46-BD3, CEF-46-BD4, CEF-46-BD5, CEF-46-BD6, CEF-46-BD7 and CEF-46-BD8. During the third year of operation, the injection pressure at the compressors averaged 55 psig. The design pressure is 20 psig for intermediate injection wells and 50 psig for deep injection wells. Each individual injection well has its own separate pressure regulator. Individual injection well pressures are not measured; adjustments are based upon flow rates not pressure. The total gas injection flow rate averaged 8 acfm for Leg #1 and 12 acfm for Leg #2, compared to the combined design total gas injection flow rate of 30 to 50 acfm. The nitrous oxide injection rate averaged 1.40 acfh which is 0.076 percent by volume of airflow, compared to the design nitrous oxide injection rate of 0.07 to 0.10 percent by volume of airflow. The TEP injection mass for the third year of operation totaled 26.07 pounds, compared to the design injection mass of 171 pounds per year. The data for the injection wells and injection system are tabulated in **Tables 2-3** and **2-4**, respectively.

2.4 Water-Level Measurements

Depth-to-water measurements were recorded at selected monitoring wells on a quarterly basis during the monitoring period. The tops of casing elevation, depth-to-water measurements, and calculated water-level elevations are tabulated in **Table 2-5**. Light Non-Aqueous Phase Liquid (LNAPL) was not noted in any monitoring well during the monitoring period.

TABLE 2-1
WEST SYSTEM - INJECTION WELL MEASUREMENTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Injection Well	Date	Valve % Open	Wellhead Flow (acfm)
CEF-46-I1	01/11/02	0	0
(Leg #1)	02/04/02	0	0
	03/11/02	0	0
	04/15/02	0	0
	05/13/02	0	0
	06/17/02	0	0
	07/16/02	0	0
	08/19/02	0	0
	09/25/02	0	0
	10/16/02	0	0
	11/19/02	0	0
	12/17/02	0	0
	01/30/03	0	0
	02/26/03	0	0
	03/25/03	0	0
	04/16/03	0	0
	05/28/03	0	0
	06/26/03	0	0
	07/22/03	0	0
	8//18/03	0	0
	09/24/03	0	0
	10/22/03	0	0
	11/25/03	0	0
	12/16/03	0	0
CEF-46-I2	01/11/02	50	3
(Leg #1)	02/04/02	50	3
	03/11/02	50	3
	04/15/02	50	3
	05/13/02	25	2
	06/17/02	25	2
	07/16/02	25	2
	08/19/02	25	2
	09/25/02	25	2
	10/16/02	25	2
	11/19/02	25	2
	12/17/02	25	2
	01/30/03	25	2
	02/26/03	25	2
	03/25/03	25	2
	04/16/03	25	2
	05/28/03	25	2
	06/26/03	25	2
	07/22/03	25	2
	08/18/03	25	2
	09/24/03	25	2
	10/22/03	25	2
	11/25/03	25	2
	12/16/03	25	2
CEF-46-I3	01/11/02	0	0
(Leg #1)	02/04/02	0	0
	03/11/02	0	0
	04/15/02	0	0
	05/13/02	0	0
	06/17/02	0	0
	07/16/02	0	0
	08/19/02	0	0
	09/25/02	0	0
	10/16/02	0	0
	11/19/02	0	0
	12/17/02	0	0
	01/30/03	0	0
	02/26/03	0	0
	03/25/03	0	0
	04/16/03	0	0
	05/28/03	0	0
	06/26/03	0	0
	07/22/03	0	0
	08/18/03	0	0
	09/24/03	0	0
	10/22/03	0	0
	11/25/03	0	0
	12/16/03	0	0

TABLE 2-1
WEST SYSTEM - INJECTION WELL MEASUREMENTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Injection Well	Date	Valve % Open	Wellhead Flow (acfm)
CEF-46-I4	01/11/02	50	3
(Leg #1)	02/04/02	50	3
	03/11/02	50	3
	04/15/02	50	3
	05/13/02	25	2
	06/17/02	25	2
	07/16/02	25	2
	08/19/02	25	2
	09/25/02	25	0
	10/16/02	25	2
	11/19/02	25	2
	12/17/02	25	2
	01/30/03	25	2
	02/26/03	25	2
	03/25/03	25	2
	04/16/03	25	2
	05/28/03	25	2
	06/26/03	25	2
	07/22/03	25	2
	08/18/03	25	2
	09/24/03	25	2
	10/22/03	25	2
	11/25/03	25	2
	12/16/03	25	2
CEF-46-I5	01/11/02	25	3
(Leg #1)	02/04/02	25	3
	03/11/02	25	3
	04/15/02	25	3
	05/13/02	25	3
	06/17/02	25	3
	07/16/02	25	3
	08/19/02	25	3
	09/25/02	25	3
	10/16/02	25	2
	11/19/02	25	2
	12/17/02	25	2
	01/30/03	25	2
	02/26/03	25	2
	03/25/03	25	2
	04/16/03	25	2
	05/28/03	25	2
	06/26/03	25	2
	07/22/03	25	2
	08/18/03	25	2
	09/24/03	25	2
	10/22/03	25	2
	11/25/03	25	2
	12/16/03	25	2
CEF-46-I6	01/11/02	60	3
(Leg #2)	02/04/02	60	3
	03/11/02	60	3
	04/15/02	60	3
	05/13/02	25	2
	06/17/02	25	2
	07/16/02	25	2
	08/19/02	25	2
	09/25/02	25	2
	10/16/02	25	2
	11/19/02	25	2
	12/17/02	25	2
	01/30/03	25	2
	02/26/03	25	2
	03/25/03	25	2
	04/16/03	25	2
	05/28/03	25	2
	06/26/03	25	2
	07/22/03	25	2
	08/18/03	25	2
	09/24/03	25	2
	10/22/03	25	2
	11/25/03	25	2
	12/16/03	25	2

TABLE 2-1
WEST SYSTEM - INJECTION WELL MEASUREMENTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Injection Well	Date	Valve % Open	Wellhead Flow (acfm)
CEF-46-I7	01/11/02	0	0
(Leg #2)	02/04/02	0	0
	03/11/02	0	0
	04/15/02	0	0
	05/13/02	0	0
	06/17/02	0	0
	07/16/02	0	0
	08/19/02	0	0
	09/25/02	0	0
	10/16/02	0	0
	11/19/02	0	0
	12/17/02	0	0
	01/30/03	0	0
	02/26/03	0	0
	03/25/03	0	0
	04/16/03	0	0
	05/28/03	0	0
	06/26/03	0	0
	07/22/03	0	0
	08/18/03	0	0
	09/24/03	0	0
	10/22/03	0	0
	11/25/03	0	0
	12/16/03	0	0
CEF-46-I8	01/11/02	60	3
(Leg #1)	02/04/02	60	3
	03/11/02	60	3
	04/15/02	60	3
	05/13/02	25	2
	06/17/02	25	2
	07/16/02	25	2
	08/19/02	25	2
	09/25/02	25	2
	10/16/02	25	2
	11/19/02	25	2
	12/17/02	25	2
	01/30/03	25	2
	02/26/03	25	2
	03/25/03	25	2
	04/16/03	25	2
	05/28/03	25	2
	06/26/03	25	2
	07/22/03	25	2
	08/18/03	25	2
	09/24/03	25	2
	10/22/03	25	2
	11/25/03	25	2
	12/16/03	25	2
CEF-46-D1	01/11/02	100	2
(Leg #2)	02/04/02	100	2
	03/11/02	100	2
	04/15/02	100	2
	05/13/02	100	2
	06/17/02	100	2
	07/16/02	100	2
	08/19/02	100	2
	09/25/02	100	2
	10/16/02	100	2
	11/19/02	100	2
	12/17/02	100	2
	01/30/03	100	2
	02/26/03	100	2
	03/25/03	100	2
	04/16/03	100	2
	05/28/03	100	2
	06/26/03	100	2
	07/22/03	100	2
	08/18/03	100	2
	09/24/03	100	2
	10/22/03	100	2
	11/25/03	100	2
	12/16/03	100	2

TABLE 2-1
WEST SYSTEM - INJECTION WELL MEASUREMENTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Injection Well	Date	Valve % Open	Wellhead Flow (acfm)
CEF-46-D2	01/11/02	100	2
(Leg #2)	02/04/02	100	2
	03/11/02	100	2
	04/15/02	100	2
	05/13/02	100	2
	06/17/02	100	2
	07/16/02	100	2
	08/19/02	100	2
	09/25/02	100	2
	10/16/02	100	2
	11/19/02	100	2
	12/17/02	100	2
	01/30/03	100	2
	02/26/03	100	2
	03/25/03	100	2
	04/16/03	100	2
	05/28/03	100	2
	06/26/03	100	2
	07/22/03	100	2
	08/18/03	100	2
	09/24/03	100	2
	10/22/03	100	2
	11/25/03	100	2
	12/16/03	100	2
CEF-46-D3	01/11/02	0	0
(Leg #2)	02/04/02	0	0
	03/11/02	0	0
	04/15/02	0	0
	05/13/02	0	0
	06/17/02	0	0
	07/16/02	0	0
	08/19/02	0	0
	09/25/02	0	0
	10/16/02	0	0
	11/19/02	0	0
	12/17/02	0	0
	01/30/03	0	0
	02/26/03	0	0
	03/25/03	0	0
	04/16/03	0	0
	05/28/03	0	0
	06/26/03	0	0
	07/22/03	0	0
	08/18/03	0	0
	09/24/03	0	0
	10/22/03	0	0
	11/25/03	0	0
	12/16/03	0	0

NA = Not Available

TABLE 2-2
WEST SYSTEM - INJECTION SYSTEM DATA

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Date	Air Supply Pressure (psig)	Total Gas Flow (acfm)	NOX Flow (acfh)	TEP Injection (pounds)
01/19/01	22	29	1	Initial Startup
02/28/01	22	NA	1	0.00
03/30/01	28	NA	3	1.34
04/13/01	38	22	2.5	0.00
05/10/01	50	22	1.5	3.12
06/07/01	48	22	1.5	2.68
07/02/01	48	22	1.5	1.78
08/06/01	50	29	1.5	1.78
09/11/01	50	22	1.5	8.12
10/03/01	52	19	1.5	1.34
11/12/01	50	19	1.5	2.41
12/11/01	50	19	1.5	2.14
01/11/02	42	19	1.5	1.78
02/04/02	43	19	0.2	NA
03/11/02	45	19	1.5	NA
04/15/02	45	19	1.5	NA
05/13/02	50	15	1.5	NA
06/17/02	51	19	0.5	NA
07/16/02	51	19	0.5	NA
08/19/02	52	15	0.5	NA
09/25/02	55	15	0.5	NA
10/16/02	66	14	0.8	2.59
11/19/02	54	14	0.8	5.18
12/17/02	55	14	1	2.14
01/30/03	55	14	0.5	0.00
02/26/03	45	14	0.5	0.00
03/25/03	45	14	0.5	0.00
04/16/03	35	14	0.5	0.00
05/28/03	35	14	0.5	9.79
06/26/03	35	14	0.5	8.01
07/22/03	35	14	0.5	7.12
08/18/03	35	14	0.5	3.56
09/24/03	35	14	0.5	3.56
10/22/03	30	14	0.2	8.01
11/25/03	25	14	0.2	0.89
12/16/03	25	14	0.2	0.89

NA = Not Available
psig = pounds per square inch gauge
acfm = actual cubic feet per minute
acfh = actual cubic feet per hour

TABLE 2-3
EAST SYSTEM - INJECTION WELL MEASUREMENTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Injection Well	Date	Valve % Open	Wellhead Flow (acfm)
CEF-46-BI1	01/11/02	0	0
(Leg #2)	02/04/02	0	0
	03/11/02	0	0
	04/15/02	0	0
	05/13/02	0	0
	06/17/02	0	0
	07/16/02	0	0
	08/19/02	0	0
	09/25/02	0	0
	10/18/02	0	0
	11/19/02	0	0
	12/17/02	0	0
	01/30/03	0	0
	02/26/03	0	0
	03/25/03	0	0
	04/16/03	0	0
	05/28/03	0	0
	06/26/03	0	0
	07/22/03	0	0
	08/18/03	0	0
	09/24/03	0	0
	10/22/03	0	0
	11/25/03	0	0
	12/16/03	0	0
CEF-46-BI2	01/11/02	0	0
(Leg #1)	02/04/02	0	0
	03/11/02	0	0
	04/15/02	0	0
	05/13/02	0	0
	06/17/02	0	0
	07/16/02	0	0
	08/19/02	0	0
	09/25/02	0	0
	10/18/02	0	0
	11/19/02	0	0
	12/17/02	0	0
	01/30/03	0	0
	02/26/03	0	0
	03/25/03	0	0
	04/16/03	0	0
	05/28/03	0	0
	06/26/03	0	0
	07/22/03	0	0
	08/18/03	0	0
	09/24/03	0	0
	10/22/03	0	0
	11/25/03	0	0
	12/16/03	0	0
CEF-46-BI3	01/11/02	100	4
(Leg #1)	02/04/02	100	4
	03/11/02	100	4
	04/15/02	100	4
	05/13/02	100	4
	06/17/02	100	4
	07/16/02	100	4
	08/19/02	100	4
	09/25/02	100	4
	10/18/02	100	2
	11/19/02	100	2
	12/17/02	100	2
	01/30/03	100	2
	02/26/03	100	2
	03/25/03	100	2
	04/16/03	100	2
	05/28/03	100	2
	06/26/03	100	2
	07/22/03	100	2
	08/18/03	100	2
	09/24/03	100	2
	10/22/03	100	2
	11/25/03	100	2
	12/16/03	100	2

TABLE 2-3
EAST SYSTEM - INJECTION WELL MEASUREMENTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Injection Well	Date	Valve % Open	Wellhead Flow (acfm)
CEF-46-BI4	01/11/02	20	4
(Leg #1)	02/04/02	20	4
	03/11/02	20	4
	04/15/02	20	4
	05/13/02	20	4
	06/17/02	20	4
	07/16/02	20	4
	08/19/02	20	4
	09/25/02	20	4
	10/18/02	20	2
	11/19/02	20	2
	12/17/02	20	2
	01/30/03	20	2
	02/26/03	20	2
	03/13/03	20	2
	04/16/03	20	0
	05/28/03	20	0
	06/26/03	20	0
	07/22/03	20	2
	08/18/03	20	2
	09/24/03	20	2
	10/22/03	0	0
	11/25/03	0	0
	12/16/03	0	0
CEF-46-BI5	01/11/02	100	4
(Leg #1)	02/04/02	100	4
	03/11/02	100	4
	04/15/02	100	4
	05/13/02	100	4
	06/17/02	100	4
	07/16/02	100	4
	08/19/02	100	4
	09/25/02	100	4
	10/18/02	100	2
	11/19/02	100	2
	12/17/02	100	2
	01/30/03	100	2
	02/26/03	100	2
	03/25/03	100	2
	04/16/03	100	2
	05/28/03	100	2
	06/26/03	100	2
	07/22/03	100	2
	08/18/03	100	2
	09/24/03	100	2
	10/22/03	100	2
	11/25/03	100	2
	12/16/03	100	2
CEF-46-BI6	01/11/02	100	4
(Leg #1)	02/04/02	100	4
	03/11/02	100	4
	04/15/02	100	4
	05/13/02	100	4
	06/17/02	100	4
	07/16/02	100	4
	08/19/02	100	4
	09/25/02	100	4
	10/18/02	100	2
	11/19/02	100	2
	12/17/02	100	2
	01/30/03	100	2
	02/26/03	100	2
	03/25/03	100	2
	04/16/03	100	2
	05/28/03	100	2
	06/26/03	100	2
	07/22/03	100	2
	08/18/03	100	2
	09/24/03	100	2
	10/22/03	100	2
	11/25/03	100	2
	12/16/03	100	2

TABLE 2-3
EAST SYSTEM - INJECTION WELL MEASUREMENTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Injection Well	Date	Valve % Open	Wellhead Flow (acfm)
CEF-46-BI7	01/11/02	100	4
(Leg #1)	02/04/02	100	4
	03/11/02	100	4
	04/15/02	100	4
	05/13/02	100	4
	06/17/02	100	4
	07/16/02	100	4
	08/19/02	100	4
	09/25/02	100	4
	10/18/02	100	2
	11/19/02	100	2
	12/17/02	100	2
	01/30/03	100	2
	02/26/03	100	2
	03/25/03	100	2
	04/16/03	100	2
	05/28/03	100	2
	06/26/03	100	2
	07/22/03	100	2
	08/18/03	100	2
	09/24/03	100	2
	10/22/03	100	2
	11/25/03	100	2
	12/16/03	100	2
CEF-46-BI8	01/11/02	0	0
(Leg #1)	02/04/02	0	0
	03/11/02	0	0
	04/15/02	0	0
	05/13/02	0	0
	06/17/02	0	0
	07/16/02	0	0
	08/19/02	0	0
	09/25/02	0	0
	10/18/02	0	0
	11/19/02	0	0
	12/17/02	0	0
	01/30/03	0	0
	02/26/03	0	0
	03/25/03	0	0
	04/16/03	0	0
	05/28/03	0	0
	06/26/03	0	0
	07/22/03	0	0
	08/18/03	0	0
	09/24/03	0	0
	10/22/03	0	0
	11/25/03	0	0
	12/16/03	0	0
CEF-46-BD1	01/11/02	100	3
(Leg #2)	02/04/02	100	3
	03/11/02	100	3
	04/15/02	100	3
	05/13/02	100	3
	06/17/02	100	3
	07/16/02	100	3
	08/19/02	100	3
	09/25/02	100	3
	10/18/02	100	2
	11/19/02	100	2
	12/17/02	100	2
	01/30/03	100	2
	02/26/03	100	2
	03/25/03	100	2
	04/16/03	100	2
	05/28/03	100	2
	06/26/03	100	2
	07/22/03	100	2
	08/18/03	100	2
	09/24/03	100	2
	10/22/03	100	2
	11/25/03	100	2
	12/16/03	100	2

TABLE 2-3
EAST SYSTEM - INJECTION WELL MEASUREMENTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Injection Well	Date	Valve % Open	Wellhead Flow (acfm)
CEF-46-BD2	01/11/02	100	4
(Leg #2)	02/04/02	100	4
	03/11/02	100	4
	04/15/02	100	4
	05/13/02	100	4
	06/17/02	100	4
	07/16/02	100	4
	08/19/02	100	4
	09/25/02	100	4
	10/18/02	100	2
	11/19/02	100	2
	12/17/02	100	2
	01/30/03	100	2
	02/26/03	100	2
	03/25/03	100	2
	04/16/03	100	2
	05/28/03	100	2
	06/26/03	100	2
	07/22/03	100	2
	08/18/03	100	2
	09/24/03	100	2
	10/22/03	100	2
	11/25/03	100	2
	12/16/03	100	2
CEF-46-BD3	01/11/02	50	2
(Leg #2)	02/04/02	50	2
	03/11/02	50	2
	04/15/02	50	2
	05/13/02	50	2
	06/17/02	50	2
	07/16/02	50	2
	08/19/02	50	2
	09/25/02	50	2
	10/18/02	100	2
	11/19/02	100	2
	12/17/02	100	2
	01/30/03	100	2
	02/26/03	100	2
	03/25/03	100	2
	04/16/03	100	2
	05/28/03	100	2
	06/26/03	100	2
	07/22/03	100	2
	08/18/03	100	2
	09/24/03	100	2
	10/22/03	100	2
	11/25/03	100	2
	12/16/03	100	2
CEF-46-BD4	02/04/02	100	4
(Leg #2)	03/11/02	100	4
	04/15/02	100	4
	05/13/02	100	4
	06/17/02	100	4
	07/16/02	100	4
	08/19/02	100	4
	09/25/02	100	4
	10/18/02	50	2
	11/19/02	50	2
	12/17/02	50	2
	01/30/03	50	2
	02/26/03	50	2
	03/25/03	50	2
	04/16/03	50	2
	05/28/03	50	2
	06/26/03	50	2
	07/22/03	50	2
	08/18/03	50	2
	09/24/03	50	2
	10/22/03	50	2
	11/25/03	50	2
	12/16/03	50	2

TABLE 2-3
EAST SYSTEM - INJECTION WELL MEASUREMENTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Injection Well	Date	Valve % Open	Wellhead Flow (acfm)
CEF-46-BD5	01/11/02	100	4
(Leg #2)	02/04/02	0	0
	03/11/02	0	0
	04/15/02	0	0
	05/13/02	0	0
	06/17/02	0	0
	07/16/02	0	0
	08/19/02	0	0
	09/25/02	0	0
	10/18/02	0	0
	11/19/02	0	0
	12/17/02	0	0
	01/30/03	0	0
	02/26/03	0	0
	03/25/03	0	0
	04/16/03	0	0
	05/28/03	0	0
	06/26/03	0	0
	07/22/03	0	0
	08/18/03	0	0
	09/24/03	0	0
	10/22/03	0	0
	11/25/03	0	0
	12/16/03	0	0
CEF-46-BD6	01/11/02	35	4
(Leg #2)	02/04/02	0	0
	03/11/02	0	0
	04/15/02	0	0
	05/13/02	0	0
	06/17/02	40	2
	07/16/02	40	2
	08/19/02	40	2
	09/25/02	40	2
	10/18/02	40	2
	11/19/02	40	2
	12/17/02	40	2
	01/30/03	40	2
	02/26/03	40	2
	03/25/03	40	2
	04/16/03	40	2
	05/28/03	40	2
	06/26/03	40	2
	07/22/03	40	2
	08/18/03	40	2
	09/24/03	40	2
	10/22/03	25	2
	11/25/03	25	2
	12/16/03	25	2
CEF-46-BD7	01/11/02	100	4
(Leg #2)	02/04/02	100	4
	03/11/02	100	4
	04/15/02	100	4
	05/13/02	100	3
	06/17/02	40	2
	07/16/02	40	2
	08/19/02	40	2
	09/25/02	40	2
	10/18/02	40	2
	11/19/02	40	2
	12/17/02	40	2
	01/30/03	40	2
	02/26/03	40	2
	03/25/03	40	2
	04/16/03	40	2
	05/28/03	40	2
	06/26/03	40	2
	07/22/03	40	2
	08/18/03	40	2
	09/24/03	40	2
	10/22/03	25	2
	11/25/03	25	2
	12/16/03	25	2

TABLE 2-3
EAST SYSTEM - INJECTION WELL MEASUREMENTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Injection Well	Date	Valve % Open	Wellhead Flow (acfm)
CEF-46-BD8	01/11/02	0	0
(Leg #2)	02/04/02	0	0
	03/11/02	0	0
	04/15/02	0	0
	05/13/02	0	0
	06/17/02	0	0
	07/16/02	0	0
	08/19/02	0	0
	09/25/02	0	0
	10/18/02	0	0
	11/19/02	0	0
	12/17/02	0	0
	01/30/03	0	0
	02/26/03	0	0
	03/25/03	0	0
	04/16/03	0	0
	05/28/03	0	0
	06/26/03	0	0
	07/22/03	0	0
	08/18/03	0	0
	09/24/03	0	0
	10/22/03	0	0
	11/25/03	0	0
	12/16/03	0	0
CEF-46-BD9	01/11/02	0	0
(Leg #1)	02/04/02	0	0
	03/11/02	0	0
	04/15/02	0	0
	05/13/02	0	0
	06/17/02	0	0
	07/16/02	0	0
	08/19/02	0	0
	09/25/02	0	0
	10/18/02	0	0
	11/19/02	0	0
	12/17/02	0	0
	01/30/03	0	0
	02/26/03	0	0
	03/25/03	0	0
	04/16/03	0	0
	05/28/03	0	0
	06/26/03	0	0
	07/22/03	0	0
	08/18/03	0	0
	09/24/03	0	0
	10/22/03	0	0
	11/25/03	0	0
	12/16/03	0	0
CEF-46-BD10	01/11/02	0	0
(Leg #1)	02/04/02	0	0
	03/11/02	0	0
	04/15/02	0	0
	05/13/02	0	0
	06/17/02	0	0
	07/16/02	0	0
	08/19/02	0	0
	09/25/02	0	0
	10/18/02	0	0
	11/19/02	0	0
	12/17/02	0	0
	01/30/03	0	0
	02/26/03	0	0
	03/25/03	0	0
	04/16/03	0	0
	05/28/03	0	0
	06/26/03	0	0
	07/22/03	0	0
	08/18/03	0	0
	09/24/03	0	0
	10/22/03	0	0
	11/25/03	0	0
	12/16/03	0	0

TABLE 2-3
EAST SYSTEM - INJECTION WELL MEASUREMENTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Injection Well	Date	Valve % Open	Wellhead Flow (acfm)
CEF-46-BD11	01/11/02	0	0
(Leg #1)	02/04/02	0	0
	03/11/02	0	0
	04/15/02	0	0
	05/13/02	0	0
	06/17/02	0	0
	07/16/02	0	0
	08/19/02	0	0
	09/25/02	0	0
	10/18/02	0	0
	11/19/02	0	0
	12/17/02	0	0
	01/30/03	0	0
	02/26/03	0	0
	03/25/03	0	0
	04/16/03	0	0
	05/28/03	0	0
	06/26/03	0	0
	07/22/03	0	0
	08/18/03	0	0
	09/24/03	0	0
	10/22/03	0	0
	11/25/03	0	0
	12/16/03	0	0

NA = Not Available

*Opened for Pressure Relief

TABLE 2-4
EAST SYSTEM - INJECTION SYSTEM DATA

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Date	Air Supply Pressure (psig)	Total Gas Flow (acfm)	NOX Flow (acfh)	TEP Injection (pounds)
01/09/01	40	31	1.5	Initial Startup
02/28/01	38	NA	1	0.00
03/30/01	8	NA	1	1.78
04/13/01	40	NA	NA	0.00
05/10/01	42	34	3.5	2.68
06/07/01	42	34	2.25	7.14
07/02/01	41	39	2.25	0.00
08/06/01	50	32	3.5	4.02
09/11/01	65	21	1.5	5.98
10/03/01	46	19.5	1.5	1.25
11/12/01	65	19.5	1.5	1.87
12/11/01	65	45	1.5	2.05
01/11/02	42	45	2.5	0.27
02/04/02	42	37	1	0.27
03/11/02	48	37	2	3.03
04/15/02	48	37	2	10.44
05/13/02	48	36	1.5	3.66
06/17/02	49	37	0.8	1.52
07/16/02	49	39	0.8	0.00
08/19/02	60	38	0.7	0.00
09/25/02	71	37	0.5	0.00
10/18/02	71	22	1	10.44
11/19/02	64	22	1	3.66
12/17/02	65	22	1	1.52
01/30/03	65	22	2	0.71
02/26/03	65	22	1.25	0.00
03/25/03	65	22	1.5	0.00
04/16/03	70	0	1.5	0.89
05/28/03	70	0	1.5	1.78
06/26/03	70	0	1.5	4.45
07/22/03	70	22	1	6.23
08/18/03	70	22	1.5	2.67
09/24/03	70	22	1.5	2.67
10/22/03	15	22	1.5	4.45
11/25/03	15	22	1	0.89
12/16/03	15	22	1	1.335

NA = Not Available
psig = pounds-per-square-inch gauge
acfm = actual cubic feet per minute
acfh = actual cubic feet per hour

TABLE 2-5
GROUNDWATER MONITORING WELL - WATER LEVEL & FREE PRODUCT DATA

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Well Total Depth (feet bgs)	Date	Top of Casing Elevation (Feet)	Depth to Product (Feet)	Depth to Water (Feet)	Water Level Elevation (Feet)
CEF-46-1S	14.24	12/21/00	79.08	No Product	4.94	74.14
		01/25/01		No Product	6.46	72.62
		02/01/01		No Product	5.46	73.62
		02/08/01		No Product	5.32	73.76
		02/15/01		No Product	5.55	73.53
		02/22/01		No Product	6.00	73.08
		03/08/01		No Product	6.04	73.04
		03/21/01		No Product	4.90	74.18
		04/03/01		NM	NM	NM
		04/18/01		No Product	5.30	73.78
		05/02/01		No Product	5.71	73.37
		06/29/01		No Product	5.47	73.61
		07/25/01		No Product	3.90	75.18
		08/20/01		No Product	3.74	75.34
		09/18/01		No Product	1.65	77.43
		10/24/01		No Product	3.69	75.39
		11/15/01		No Product	4.10	74.98
		12/17/01		No Product	4.02	75.06
		03/19/02		No Product	4.44	74.64
		06/06/02		No Product	5.70	73.38
		09/18/02		No Product	2.75	76.33
		12/15/02		No Product	3.95	75.13
		03/14/03		No Product	2.55	76.53
		06/09/03		No Product	2.40	76.68
		09/03/03		No Product	3.42	75.66
		12/11/03		No Product	5.20	73.88
CEF-46-2S	13.88	12/21/00	79.08	No Product	5.02	74.06
		01/25/01		No Product	5.10	73.98
		02/01/01		No Product	5.60	73.48
		02/08/01		No Product	5.69	73.39
		02/15/01		No Product	5.67	73.41
		02/22/01		No Product	6.07	73.01
		03/08/01		No Product	6.14	72.94
		03/21/01		No Product	5.00	74.08
		04/03/01		NM	NM	NM
		04/18/01		No Product	5.41	73.67
		05/02/01		No Product	5.78	73.30
		06/29/01		No Product	6.18	72.90
		07/25/01		No Product	4.11	74.97
		08/20/01		No Product	3.19	75.89
		09/18/01		No Product	1.55	77.53
		10/24/01		No Product	3.88	75.20
		11/15/01		No Product	3.95	75.13
		12/17/01		No Product	4.26	74.82
		03/19/02		No Product	4.61	74.47
		06/06/02		No Product	5.88	73.20
		09/17/02		No Product	2.66	76.42
		12/15/02		No Product	4.02	75.06
		03/14/03		No Product	2.55	76.53
		06/05/03		No Product	3.75	75.33
		09/03/03		No Product	2.70	76.38
		12/11/03		No Product	5.04	74.04

TABLE 2-5
GROUNDWATER MONITORING WELL - WATER LEVEL & FREE PRODUCT DATA

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Well Total Depth (feet bgs)	Date	Top of Casing Elevation (Feet)	Depth to Product (Feet)	Depth to Water (Feet)	Water Level Elevation (Feet)
CEF-46-5I	49.65	12/21/00	79.18	No Product	5.81	73.37
		01/25/01		No Product	5.12	74.06
		02/01/01		No Product	9.21	69.97
		02/08/01		No Product	8.17	71.01
		02/15/01		No Product	7.07	72.11
		02/22/01		No Product	8.35	70.83
		03/08/01		No Product	8.26	70.92
		03/21/01		No Product	5.96	73.22
		04/03/01		NM	NM	NM
		04/18/01		No Product	6.93	72.25
		05/02/01		No Product	7.04	72.14
		06/29/01		No Product	7.45	71.73
		07/25/01		NM	Flowing	NM
		08/21/01		No Product	4.27	74.91
		09/18/01		No Product	3.16	76.02
		10/23/01		No Product	5.80	73.38
		11/15/01		No Product	6.50	72.68
		12/18/01		No Product	6.61	72.57
		03/19/02		No Product	5.08	74.10
		06/06/02		No Product	9.06	70.12
		09/18/02		No Product	4.14	75.04
		12/15/02		No Product	5.40	73.78
		03/14/03		No Product	3.40	75.78
		06/05/03		No Product	4.90	74.28
		09/03/03		No Product	6.25	72.93
		12/11/03		No Product	6.64	72.54
CEF-46-6D	79.82	12/21/00	79.17	No Product	7.40	71.77
		01/25/01		NM	NM	NM
		02/01/01		NM	NM	NM
		02/08/01		No Product	11.90	67.27
		02/15/01		NM	NM	NM
		02/22/01		NM	NM	NM
		03/08/01		NM	NM	NM
		03/21/01		NM	NM	NM
		04/03/01		NM	NM	NM
		04/18/01		NM	NM	NM
		05/02/01		NM	NM	NM
		06/29/01		NM	NM	NM
		07/25/01		NM	NM	NM
		08/21/01		No Product	8.15	71.02
		09/18/01		No Product	4.75	74.42
		10/23/01		No Product	Flowing	NM
		11/15/01		No Product	8.20	70.97
		12/18/01		No Product	9.75	69.42
		03/19/02		No Product	8.85	70.32
		06/06/02		No Product	12.56	66.61
		09/18/02		No Product	4.81	74.36
		12/15/02		No Product	8.43	70.74
		03/14/03		No Product	6.50	72.67
		06/09/03		No Product	8.00	71.17
		09/03/03		No Product	5.82	73.35
		12/10/03		No Product	7.30	71.87

TABLE 2-5
GROUNDWATER MONITORING WELL - WATER LEVEL & FREE PRODUCT DATA

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Well Total Depth (feet bgs)	Date	Top of Casing Elevation (Feet)	Depth to Product (Feet)	Depth to Water (Feet)	Water Level Elevation (Feet)
CEF-46-7I	29.68	12/21/00	79.02	No Product	5.45	73.57
		01/25/01		NM	NM	NM
		02/01/01		NM	NM	NM
		02/08/01		NM	NM	NM
		02/15/01		NM	NM	NM
		02/22/01		No Product	7.17	71.85
		03/08/01		NM	NM	NM
		03/21/01		NM	NM	NM
		04/03/01		NM	NM	NM
		04/18/01		NM	NM	NM
		05/02/01		NM	NM	NM
		06/29/01		NM	NM	NM
		07/25/01		NM	Flowing	NM
		08/20/01		No Product	3.70	75.32
		09/18/01		No Product	1.85	77.17
		10/24/01		No Product	4.76	74.26
		11/15/01		No Product	4.52	74.50
		12/18/01		No Product	3.88	75.14
		03/19/02		No Product	5.09	73.93
		06/06/02		No Product	7.91	71.11
		09/17/02		No Product	3.31	75.71
		12/15/02		No Product	4.66	74.36
		03/14/03		No Product	3.30	75.72
		06/09/03		No Product	3.20	75.82
		09/03/03		No Product	2.80	76.22
		12/11/03		No Product	5.84	73.18
CEF-46-9I	48.81	12/21/00	79.05	No Product	5.67	73.38
		01/25/01		No Product	5.91	73.14
		02/01/01		No Product	7.37	71.68
		02/08/01		No Product	6.53	72.52
		02/15/01		No Product	6.03	73.02
		02/22/01		No Product	7.51	71.54
		03/08/01		No Product	6.61	72.44
		03/21/01		No Product	5.70	73.35
		04/03/01		NM	NM	NM
		04/18/01		No Product	6.30	72.75
		05/02/01		No Product	6.52	72.53
		06/29/01		No Product	6.11	72.94
		07/25/01		No Product	4.61	74.44
		08/20/01		No Product	3.74	75.31
		09/18/01		No Product	1.93	77.12
		10/23/01		No Product	4.72	74.33
		11/15/01		No Product	4.69	74.36
		12/18/01		No Product	5.42	73.63
		03/19/02		No Product	5.20	73.85
		06/06/02		No Product	7.30	71.75
		09/17/02		No Product	3.35	75.70
		12/15/02		No Product	4.75	74.30
		03/14/03		No Product	2.55	76.50
		06/04/03		No Product	4.10	74.95
		09/03/03		No Product	3.32	75.53
		09/03/03		No Product	5.79	73.26

TABLE 2-5
GROUNDWATER MONITORING WELL - WATER LEVEL & FREE PRODUCT DATA

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Well Total Depth (feet bgs)	Date	Top of Casing Elevation (Feet)	Depth to Product (Feet)	Depth to Water (Feet)	Water Level Elevation (Feet)
CEF-46-12I	29.61	12/21/00	78.73	No Product	5.23	73.50
		01/25/01		No Product	6.44	72.29
		02/01/01		No Product	6.50	72.23
		02/08/01		No Product	6.71	72.02
		02/15/01		No Product	5.66	73.07
		02/22/01		No Product	6.73	72.00
		03/08/01		No Product	8.24	70.49
		03/21/01		No Product	5.20	73.53
		04/03/01		NM	NM	NM
		04/18/01		No Product	5.75	72.98
		05/02/01		No Product	5.97	72.76
		06/29/01		No Product	5.59	73.14
		07/25/01		No Product	4.14	74.59
		08/20/01		No Product	3.20	75.53
		09/17/01		No Product	1.59	77.14
		10/23/01		No Product	4.20	74.53
		11/15/01		No Product	4.10	74.63
		12/18/01		No Product	4.85	73.88
		03/18/02		No Product	4.70	74.03
		06/06/02		No Product	6.47	72.26
		09/17/02		No Product	2.77	75.96
		12/15/02		No Product	4.21	74.52
		03/14/03		No Product	2.10	76.63
		06/05/03		No Product	3.30	75.43
		09/03/03		No Product	2.90	75.83
		12/11/03		No Product	5.45	73.28
CEF-46-13I	39.56	12/21/00	78.87	No Product	5.43	73.44
		01/25/01		No Product	5.86	73.01
		02/01/01		No Product	7.06	71.81
		02/08/01		No Product	6.39	72.48
		02/15/01		No Product	5.77	73.10
		02/22/01		No Product	7.15	71.72
		03/08/01		No Product	6.37	72.50
		03/21/01		No Product	5.40	73.47
		04/03/01		NM	NM	NM
		04/18/01		No Product	6.07	72.80
		05/02/01		No Product	6.23	72.64
		06/29/01		No Product	5.87	73.00
		07/25/01		No Product	4.35	74.52
		08/20/01		No Product	3.44	75.43
		09/17/01		No Product	1.75	77.12
		10/23/01		No Product	4.52	74.35
		11/15/01		No Product	4.37	74.50
		12/18/01		No Product	5.18	73.69
		03/19/02		No Product	4.95	73.92
		06/06/02		No Product	6.92	71.95
		09/17/02		No Product	3.03	75.84
		12/15/02		No Product	4.46	74.41
		03/14/03		No Product	2.31	76.56
		06/05/03		No Product	3.50	75.37
		09/03/03		No Product	3.10	75.77
		12/11/03		No Product	5.90	72.97

TABLE 2-5
GROUNDWATER MONITORING WELL - WATER LEVEL & FREE PRODUCT DATA

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Well Total Depth (feet bgs)	Date	Top of Casing Elevation (Feet)	Depth to Product (Feet)	Depth to Water (Feet)	Water Level Elevation (Feet)
CEF-46-14D	78.79	12/21/00	78.88	No Product	6.86	72.02
		01/25/01		No Product	4.65	74.23
		02/01/01		No Product	11.45	67.43
		02/08/01		No Product	8.84	70.04
		02/15/01		No Product	7.76	71.12
		02/22/01		No Product	8.74	70.14
		03/08/01		No Product	7.84	71.04
		03/21/01		No Product	6.96	71.92
		04/03/01		NM	NM	NM
		04/18/01		No Product	7.93	70.95
		05/02/01		No Product	7.74	71.14
		06/29/01		No Product	7.36	71.52
		07/25/01		No Product	5.47	73.41
		08/20/01		No Product	5.35	73.53
		09/17/01		No Product	3.29	75.59
		10/23/01		No Product	7.40	71.48
		11/15/01		No Product	8.32	70.56
		12/18/01		No Product	7.01	71.87
		03/19/02		No Product	7.21	71.67
		06/06/02		No Product	9.00	69.88
		09/17/02		No Product	7.65	71.23
		12/15/02		No Product	6.24	72.64
		03/14/03		No Product	4.20	74.68
		06/04/03		No Product	6.15	72.73
		09/03/03		No Product	5.15	73.73
		12/10/03		No Product	7.20	71.68
CEF-46-15I	29.77	12/21/00	79.75	No Product	6.33	73.42
		01/25/01		No Product	6.99	72.76
		02/01/01		No Product	7.45	72.30
		02/08/01		No Product	7.35	72.40
		02/15/01		No Product	6.75	73.00
		02/22/01		No Product	7.75	72.00
		03/08/01		No Product	7.23	72.52
		03/21/01		No Product	6.16	73.59
		04/03/01		No Product	NM	NM
		04/18/01		No Product	6.95	72.80
		05/02/01		No Product	7.21	72.54
		06/29/01		No Product	7.15	72.60
		07/25/01		No Product	5.75	74.00
		08/20/01		No Product	4.21	75.54
		09/17/01		No Product	2.70	77.05
		10/23/01		No Product	5.29	74.46
		11/15/01		No Product	5.15	74.60
		12/18/01		No Product	5.87	73.88
		03/18/02		No Product	5.90	73.85
		06/06/02		No Product	7.51	72.24
		09/17/02		No Product	3.80	75.95
		12/15/02		No Product	5.23	74.52
		03/13/03		No Product	3.47	76.28
		06/04/03		No Product	4.54	75.21
		09/03/03		No Product	4.22	75.53
		12/10/03		No Product	6.53	73.22

TABLE 2-5
GROUNDWATER MONITORING WELL - WATER LEVEL & FREE PRODUCT DATA

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Well Total Depth (feet bgs)	Date	Top of Casing Elevation (Feet)	Depth to Product (Feet)	Depth to Water (Feet)	Water Level Elevation (Feet)
CEF-46-21I	29.70	12/21/00	79.33	No Product	6.02	73.31
		01/25/01		No Product	1.50	77.83
		02/01/01		No Product	7.90	71.43
		02/08/01		No Product	8.15	71.18
		02/15/01		No Product	5.02	74.31
		02/22/01		No Product	8.28	71.05
		03/08/01		NM	NM	NM
		03/21/01		NM	NM	NM
		04/03/01		NM	NM	NM
		04/18/01		NM	NM	NM
		05/02/01		NM	NM	NM
		06/29/01		NM	NM	NM
		07/25/01		NM	Flowing	NM
		08/21/01		No Product	4.15	75.18
		09/18/01		No Product	2.15	77.18
		10/24/01		No Product	5.16	74.17
		11/16/01		No Product	5.25	74.08
		12/18/01		No Product	6.03	73.30
		03/19/02		No Product	5.74	73.59
		06/07/02		No Product	8.65	70.68
		09/18/02		No Product	4.12	75.21
		12/15/02		No Product	5.52	73.81
		03/13/03		No Product	2.79	76.54
		06/05/03		No Product	4.18	75.15
		09/03/03		No Product	3.70	75.63
		12/11/03		No Product	7.50	71.83
CEF-46-24D	90.45	12/21/00	78.74	No Product	7.30	71.44
		01/25/01		No Product	8.20	70.54
		02/01/01		No Product	11.45	67.29
		02/08/01		No Product	10.87	67.87
		02/15/01		No Product	8.91	69.83
		02/22/01		No Product	9.39	69.35
		03/08/01		No Product	9.40	69.34
		03/21/01		No Product	7.25	71.49
		04/03/01		NM	NM	NM
		04/18/01		No Product	8.15	70.59
		05/02/01		NM	NM	NM
		06/29/01		NM	NM	NM
		07/25/01		No Product	5.93	72.81
		08/21/01		No Product	5.82	72.92
		09/18/01		No Product	3.40	75.34
		10/24/01		No Product	7.35	71.39
		11/16/01		No Product	6.50	72.24
		12/18/01		No Product	7.24	71.50
		03/19/02		No Product	6.71	72.03
		06/07/02		No Product	10.69	68.05
		09/18/02		No Product	5.50	73.24
		12/15/02		No Product	6.94	71.80
		03/14/03		No Product	13.78	64.96
		06/05/03		No Product	6.40	72.34
		09/03/03		No Product	4.97	73.77
		12/10/03		No Product	7.40	71.34

TABLE 2-5
GROUNDWATER MONITORING WELL - WATER LEVEL & FREE PRODUCT DATA

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Well Total Depth (feet bgs)	Date	Top of Casing Elevation (Feet)	Depth to Product (Feet)	Depth to Water (Feet)	Water Level Elevation (Feet)
CEF-46-25I	50.45	12/21/00	79.17	No Product	6.25	72.92
		01/25/01		No Product	5.55	73.62
		02/01/01		No Product	8.26	70.91
		02/08/01		No Product	7.87	71.30
		02/15/01		No Product	9.05	70.12
		02/22/01		No Product	8.56	70.61
		03/08/01		No Product	8.70	70.47
		03/21/01		No Product	6.00	73.17
		04/03/01		NM	NM	NM
		04/18/01		No Product	7.19	71.98
		05/02/01		No Product	7.04	72.13
		06/29/01		No Product	6.90	72.27
		07/25/01		No Product	4.86	74.31
		08/21/01		No Product	3.92	75.25
		09/18/01		No Product	1.92	77.25
		10/24/01		No Product	4.82	74.35
		11/16/01		No Product	4.84	74.33
		12/18/01		No Product	5.61	73.56
		03/19/02		No Product	5.43	73.74
		06/07/02		No Product	8.41	70.76
		09/18/02		No Product	3.79	75.38
		12/15/02		No Product	5.20	73.97
		03/13/03		No Product	2.49	76.68
		06/04/03		No Product	3.98	75.19
		09/03/03		No Product	3.50	75.67
		12/10/03		No Product	5.98	73.19
CEF-46-26I	47.76	12/21/00	79.43	No Product	7.09	72.34
		01/25/01		No Product	5.89	73.54
		02/01/01		No Product	9.45	69.98
		02/08/01		No Product	8.12	71.31
		02/15/01		No Product	8.77	70.66
		02/22/01		No Product	8.73	70.70
		03/08/01		No Product	8.47	70.96
		03/21/01		No Product	6.40	73.03
		04/03/01		NM	NM	NM
		04/18/01		No Product	7.40	72.03
		05/02/01		No Product	7.32	72.11
		06/29/01		NM	NM	NM
		07/25/01		No Product	5.21	74.22
		08/21/01		No Product	4.27	75.16
		09/18/01		No Product	2.21	77.22
		10/24/01		No Product	5.16	74.27
		11/16/01		No Product	5.21	74.22
		12/18/01		No Product	6.02	73.41
		03/19/02		No Product	5.84	73.59
		06/06/02		No Product	8.92	70.51
		09/18/02		No Product	4.16	75.27
		12/15/02		No Product	5.55	73.88
		03/14/03		No Product	3.82	75.61
		06/05/03		No Product	4.30	75.13
		09/03/03		No Product	3.73	75.70
		12/11/03		No Product	6.65	72.78

BGS = Below Ground Surface
NM = Not Measured
Elevation is referenced to National Geodetic Vertical Datum 1929 (NGVD 1929)
Depth-to-product measured from top of casing
Depth-to-water measured from top of casing

3.0 Summary of Sampling and Laboratory Analytical Results

3.1 Soil Monitoring

Soil-screening and sampling was conducted on a quarterly basis during the third year of operation. Three soil borings (SB-1, SB-2, and SB-14) were installed in the soil contamination area identified during the site assessment. The soil was screened using an Organic Vapor Analyzer (OVA) meter equipped with a flame ionization detector (FID) and a sample from each soil boring was collected at 2 to 5 feet bls for laboratory analysis. The most recent (fourth quarter 2003) OVA/FID results are presented below in **Table 3-1**. The water table was encountered at 6 feet bls.

TABLE 3-1
Summary of OVA/FID Readings

Date	Soil Boring No.	Depth (feet bls)	OVA/FID Unfiltered*	OVA/FID Filtered*	OVA/FID Net*
SB-1	12/11/03	2	ND	ND	ND
SB-1	12/11/03	4	300	80	220
SB-1	12/11/03	6	100	20	80
SB-2	12/11/03	2	>1000	0	>1000
SB-2	12/11/03	4	>1000	0	>1000
SB-2	12/11/03	6	>1000	70	930
SB-14	12/11/03	2	ND	ND	ND
SB-14	12/11/03	4	20	0	20
SB-14	12/11/03	6	ND	ND	ND

* OVA reading suspected inaccurate due to equipment malfunction.

Laboratory soil samples were analyzed for BTEX and MTBE using U. S. Environmental Protection Agency (EPA) Method 8021B, Naphthalene and Polynuclear Aromatic Hydrocarbons (PAHs) using EPA Method 8310, and Total Recoverable Petroleum Hydrocarbon (TRPH) using the Florida Petroleum Residual Organic (FL PRO) Method.

Laboratory analytical results indicated that BTEX, MTBE, naphthalene, and TRPH concentrations have generally decreased in comparison to the baseline soil-sampling event conducted on January 4, 2001; however, the concentrations still exceed the Leachability and/or Direct Exposure Residential Soil Cleanup Target Levels (SCTLs) per Chapter 62-777 FAC in the areas of soil boring SB-1 and soil boring SB-2. A site map showing the location of the soil borings is provided in **Appendix A**. Copies of the analytical laboratory report from the soil-sampling event are provided in **Appendix B**, and analytical results are summarized in **Table 3-2**.

3.2 Groundwater Monitoring

Laboratory Analytical Results

Groundwater from fourteen monitoring wells (CEF-46-1S, CEF-46-2S, CEF-46-5I, CEF-46-6D, CEF-46-7I, CEF-46-9I, CEF-46-12I, CEF-46-13I, CEF-46-14D, CEF-46-15I, CEF-46-21I, CEF-46-24D, CEF-46-25I, and CEF-46-26I) was sampled quarterly during the third year of operation.

The samples were analyzed for BTEX and MTBE using EPA Method 8021B, naphthalene and PAHs using EPA Method 8310, TRPH using FL PRO Method, and nitrate, nitrite, and phosphate using EPA Method 300.0. Seven of the fourteen wells had contaminant concentrations above the Groundwater Cleanup Target Levels (GCTLs) per Chapter 62-777 FAC during the baseline-sampling events conducted on December 20, 2000 and January 24, 2001. At the end of the third year of operation, the results of the groundwater treatment are as follows:

- Two of the seven monitoring wells (CEF-46-2S and CEF-46-6D) that exceeded the GCTLs during the baseline event, are now below the GCTLs for all contaminants of concern.
- The remaining five monitoring wells (CEF-46-1S, CEF-46-5I, CEF-46-7I, CEF-46-26I, and CEF-46-13I) that exceeded the GCTLs during the baseline event continue to have contaminant concentrations above the GCTLs.
- The contaminant concentrations in monitoring wells CEF-46-7I and CEF-46-13I still exceed the GCTLs but have decreased from the baseline sampling event.
- Analytical results from groundwater sampled from monitoring wells CEF-46-1S, CEF-46-5I, and CEF-46-26I indicated contaminant concentrations that have fluctuated above and below baseline concentrations during the third year of operation.

A site map showing the locations of the monitoring wells is provided in **Appendix A**. Copies of the analytical laboratory reports from the groundwater sampling events are provided in **Appendix C**, and analytical results are summarized in **Table 3-3**.

Field analytical tests were performed on the monitoring wells during each sampling event. The groundwater was tested for pH, conductivity, temperature, dissolved Oxygen, Carbon Dioxide, alkalinity, Ferrous Iron, and Hydrogen Sulfide. The results from the field analytical tests are summarized in **Table 3-4**. Groundwater sampling logs are included in **Appendix E**.

Field Analytical Results

The following is a brief discussion of significant field parameter results and their impact on remediation progress and vice versa. The discussion focuses on results from the last four quarters as well as visual trends observed since remediation inception.

- <u>Groundwater pH</u>: The pH of groundwater from wells screened in the intermediate and deep zones has shown a decrease since system installation. Many of the recorded pHs over the last four quarters are below 4 pH units, and three wells fall below 3 pH units. At this pH, microbial activity becomes very strained. The lower pHs can be attributed to two causes. The first is that acid formation in the form of Phosphoric and Nitric acids is resulting from the continual injection of nutrients in the form of TEP and Nitrous Oxide,

respectively. The second, albeit minor cause could be the production of metabolic acids and Carbon Dioxide from microbial degradation activity. Irrespective of the cause, the pH of groundwater in several area monitoring wells is too low to be supporting much microbial activity. Noteworthy are the higher, relatively stable pHs during 2003 in the shallow wells CEF-46-1S (6.5 +/- 0.7 units) and CEF-46-2S (6.6 +/- 0.4 units). In all probability, the added gaseous nutrients are not impacting the shallow zone significantly enough to cause pH imbalances. Secondly, precipitated infiltration could be neutralizing any acidic effects in the shallow zone.

- Groundwater Temperature: Groundwater temperatures in all three zones appear to be above 20 degrees centigrade, at which value microorganisms function quite robustly. Temperatures remain stable throughout the year, suggesting that kinetic activity should not be impacted by seasonal changes.

- Conductivity: The conductivity values have remained relatively constant, indicating that the groundwater quality has not changed between the various sampling events.

- Dissolved Oxygen (DO): DO in groundwater has generally been reduced to concentrations below 1.0 mg/L and often below 0.5 mg/L, particularly in the last three sampling events. In contrast, DO values during the first year of operation (2000) were generally greater than 1.0 mg/L. The observed drop in DO in some of the deep wells can be attributed to reconfiguration of airflow in the area to focus on areas of higher contamination. However, the low DO in shallow and intermediate wells that continue to have higher contamination (CEF-46-1S, CEF-46-2S, and CEF-46-7I) is more likely due to the fact that injected air has not been effectively diffusing into the more shallow portions of the aquifer. As a result, much of the shallow zone remains anaerobic. The major implication of the anaerobic environment is lowered degradation rates because petroleum constituents such as BTEX, MTBE, and Naphthalene are reduced much more gradually under such conditions. Often, DO diffusive pathways in the subsurface change during remediation and this could also be one of the reasons for the observed decrease in DO over time in the shallow zone.

- Carbon Dioxide: Field test results indicate that carbon dioxide levels are highly variable and do not show a specific pattern or trend. In the shallow groundwater, carbon dioxide does appear to have decreased since remediation began, reflecting reduced biological activity. However, concentrations fluctuate considerably in the shallow and deep wells, indicating no discernible change in microbial activity since remediation began.

- Alkalinity: Table 3-4 indicates a general trend of decreasing alkalinity in the sampled groundwater.

- Ferrous Iron: Overall, Ferrous Iron concentrations appear to be increasing in the aquifer since remediation inception, particularly in the deeper zone. Ferrous Iron generally tends to increase in anaerobic conditions. Once again, this observation correlates with DO trends and indicates that anaerobic conditions prevail in much of the aquifer.

- Hydrogen Sulfide: Hydrogen Sulfide increased in monitoring wells CEF-46-1S, CEF-46-2S, and CEF-46-14D, and remained relatively constant in all other wells. This may indicate that sulfate-based anaerobic degradation may be occurring at specific locales in the groundwater following DO depletion.

TABLE 3-1
SOIL ANALYTICAL RESULTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Soil Boring Number	Sample Date	Benzene	Ethyl Benzene	Toluene	Xylene	BETX	Methyl tert-butyl ether	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Benzo (g,h,i) perylene	TRPH (mg/kg)
SB-1	01/04/01	<0.9	65	14	390	469	3.1	73	<0.18	<1.8	1.235	0.67	<0.18	0.179	0.039	<.018	0.48	0.02	0.0243	0.0102	0.0063	<0.018	<0.018	9900
	06/27/01	0.61	34	9.1	110	153.71	<0.0012	1.4	<0.18	0.16	0.15	0.15	<0.18	0.051	0.012	0.022	0.19	0.012	0.013	0.0056	0.0073	<0.018	0.0049	150
	09/20/01	0.65	6.1	0.69	40	47.44	<0.15	8.8	<0.2	<0.2	<0.2	0.28	<0.2	0.11	0.019	<0.02	0.15	0.034	0.026	0.018	0.011	0.026	0.024	1500
	12/12/01	0.069	0.13	0.013	0.55	0.762	0.0084	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	19
	03/07/02	3	67	7.1	200	277.1	<1.2	23	<0.19	<0.19	<0.19	0.27	<0.19	0.057	0.0057	0.023	0.26	<0.019	<0.19	0.0053	<0.019	<0.019	<0.019	1600
	06/20/02	0.15	7.9	0.82	27	35.87	<.11	5.2	<0.18	<0.18	0.92 J	0.086 J	<0.18	0.024 J	<0.018	<0.018	0.04	<0.018	<0.018	.0035 J	.0038 J	<0.018	<0.018	180
	09/26/02	2.17	97.7	10.7	532	642.57	<1.19	21.1	<0.20	<0.20	<0.20	0.27 J	<0.20	0.054 J	0.017 J	0.032 J	<0.020	0.015 J	0.022 J	<0.020	<0.020	0.017 J	0.012 J	800
	12/13/02	0.153	4.17	0.406	27.8	32.5	<0.166	2.84	<0.68	<0.68	<0.143	<0.0436	<0.0449	0.0517	0.0251	<0.00885	<0.0102	<0.0122	<0.0116	<0.0068	<0.0292	<0.0204	<0.0517	151
	03/15/03	<0.034	0.155	<0.034	0.794	0.949	<0.169	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	65.3
	06/09/03	0.1869	1.526	0.2224	3.082	5.017	<0.252	0.0805	0.00432	0.00864	0.0755	0.0502	0.0176	0.00943	0.0118	<0.00393	<0.00393	<0.00393	<0.00393	<0.00393	<0.00393	<0.00393	<0.00393	27.7
	09/04/03	0.0226	1.8	0.043	1.48	3.346	0.011	0.231	<0.0033	0.00561	0.0531	0.0182	0.00528	0.00561	0.0066	<0.0033	<0.0033	0.00462	0.00363	0.0066	0.00825	0.0033	0.00924	34.6
	12/11/03	0.486	1.11	0.572	12	14.168	0.228	2.11	<0.0033	0.0099	0.0356	0.0238	0.0191	0.0158	0.0122	<0.0033	<0.0033	0.0102	0.00726	0.0142	0.0116	<0.0033	<0.00957	154
SB-2	01/04/01	7.1	120	10	610	747.1	3.8	38.5	<0.18	<0.18	0.515	0.66	<0.18	0.173	0.044	0.0425	<0.018	0.01685	0.02945	0.0215	<0.018	<0.018	0.0255	3900
	06/27/01	1.4	57	47	420	525.4	<0.0011	0.84	0.17	1	0.46	0.59	0.086	0.21	0.046	0.077	0.071	0.026	0.037	0.019	0.0072	<0.019	0.0091	1300
	09/20/01	0.51	32	6	290	328.51	<0.12	7.4	<0.2	2.1	<0.20	0.58	<0.2	0.2	0.049	0.076	0.16	0.026	<0.020	0.02	<0.020	<0.020	<0.020	430
	12/12/01	<11	99	110	620	829	<11	34	<0.2	0.12	0.38	0.23	<0.2	0.043	0.018	0.017	0.15	0.01	0.0066	0.007	<0.020	0.0081	0.015	1800
	03/07/02	1.7	38	24	430	493.7	<1	24	<0.19	<0.19	<0.19	0.47	<0.19	0.085	0.012	0.049	<0.019	0.027	0.051	0.026	0.051	<0.019	0.015	2000
	06/20/02	0.14	2.8	6	72	80.94	<.12	11	<0.17	<0.17	<0.17	0.2	0.1 J	0.065 J	0.015 J	0.028 J	0.075	0.013 J	0.018 J	0.010 J	<0.017	<0.017	<0.017	550
	09/26/02	0.746 J	9.15	22	274	305.15	<1.2	20.5	<0.19	<0.19	<0.19	0.99	<0.19	0.17 J	0.060 J	0.12 J	<0.019	0.030 J	0.042 J	0.029	0.0079 J	0.032 J	0.016 J	970
	12/13/02	<0.611	8.01	12.8	80.7	101.51	<3.06	9.98	<0.661	<0.661	<0.139	0.0582	<0.0436	<0.0139	0.0906	<0.00859	<0.00991	<0.0119	<0.0112	<0.00661	<0.0284	<0.0198	<0.0502	428
	03/15/03	1.32	43.1	31.1	322	398	<0.532	10.7	<0.066	0.079	<0.066	0.317	0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	997
	06/09/03	0.4545	11.07	0.4463	75.58	88	<0.413	11.2	0.033	0.0632	0.136	0.206	0.058	0.0333	0.0425	0.00953	0.0123	0.0107	0.00556	0.0111	0.0107	<0.00397	0.0115	288
	09/04/03	0.717	18.6	3.05	115	137	<0.466	10.7	0.0304	0.0544	0.108	0.141	0.0403	0.0188	0.0224	0.00825	0.00528	<0.0033	<0.0033	0.00627	<0.0033	<0.0033	0.00528	453
	12/11/03	0.0442	14.9	10.4	192	217	0.008	39.2	0.109	0.17	0.311	0.414	0.117	0.0696	0.101	0.0459	0.0221	0.0191	0.0122	0.0284	0.0158	<0.0033	0.0188	1010
SB-3	01/04/01	0.00038	<0.0011	<0.0011	<0.0033	0.00038	<0.0011	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.018	<0.018	<0.018	0.0305	0.00805	0.0035	0.00745	<0.018	<0.018	<0.018	16
	06/27/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/20/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/12/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/07/02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	06/20/02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/26/02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-13	01/04/01	0.0011	<0.0012	<0.0012	<0.0036	0.0011	<0.0012	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	0.075	0.0715	0.078	0.13	0.145	0.0665	0.11	0.055	0.0815	0.1025	25
	06/27/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/20/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/12/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/07/02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	06/20/02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/26/02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-14	01/04/01	<0.001	<0.001	0.011	0.0077	0.0187	0.0081	0.23	<0.18	<0.18	<0.18	<0.18	<0.18	<0.018	<0.018	<0.018	0.785	0.0145	0.008	0.0115	0.0075	0.0101	0.016	43
	06/27/01	0.1	0.16	<0.0011	0.15	0.41	0.015	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	0.014	<0.019	<0.019	0.44	0.0059	0.0072	0.019	<0.019	0.023	<0.019	270
	09/20/01	0.0025	0.0025	0.002	0.0024	0.0094	<0.0012	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.020	<0.020	<0.020	0.32	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	55
	12/12/01	0.11	0.18	0.014	0.71	1.014	0.012	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.019	<0.019	<0.019	0.058	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	65
	03/07/02	0.054	0.045	<0.0011	0.032	0.131	0.0021	0.56	<0.19	<0.19	<0.19	<0.19	<0.19	0.011	<0.019	<0.019	1.2	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	120
	06/20/02	<0.11	110 J	<0.11	110 J	220	<0.11	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.018	<0.018	<0.018	1.4 J	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	23
	09/26/02	<0.001	0.0288	<0.001	0.0321	0.0609	0.00268	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	0.011 J	0.0099 J	<0.019	0.38 J	0.03	0.018 J	0.062 J	<0.019	0.059 J	<0.019	117
	12/13/02	<0.125	0.402	0.602	0.602	1.606	<0.314	<2.08	<2.08	<2.08	<0.439	<1.34	<1.38	<0.439	<0.565	<0.271	<0.314	<0.376	<0.355	<0.208	<0.898	<0.627	<1.59	192
	03/15/03	0.138	0.823	0.087	0.966	2.01	<0.140	0.185	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	51.2
	06/09/03	0.0099	0.1241	0.02	0.1563	0.31	0.006	6.2	0.0334	0.0645	0.137	0.154	0.0523	0.0556	0.0499	0.0277	0.0265	0.0319	0.0242	0.0292	0.0292	0.013	0.0299	413
	09/04/03	0.0046	0.0045	0.0061	0.0083	0.0235	<0.005	0.553	<0.0033	<0.0033	0.00627	0.00594	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	0.00627	54.5
	12/11/03	0.0147	0.0016	0.0011	0.0055	0.0229	<0.005	1.01	0.0155	<0.0033	0.00891	0.00759	0.0132	0.0287	0.0337	0.0234	0.0191	0.0241	0.0241	0.0419	0.0333	0.0162	0.0376	126
Direct Exposure Residential[1]		1.1	1100	380	5900	n/a	3200	40	1100	1900	2200	2000	18000	2900	2200	1.4	140	1.4	15	0.1	1.5	0.1	2300	340
Leachability from GW Criteria[1]		0.0007	0.6	0.5	0.2	n/a	0.2	1.7	27	2.1	160	250	2500	1200	880	3.2	77	10	25	8	28	30	32000	340

All values reported in mg/kg
1 = Ch 62-777 F.A.C Soil Cleanup Target Levels (SCTL) reported in mg/kg
Highlighted values indicate compounds that exceed the SCTL or the Leachability Criteria

TABLE 3-2
GROUNDWATER ANALYTICAL RESULTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	Benzene	Ethyl Benzene	Toluene	Xylene	BETX	Methyl tert-butyl ether	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Benzo (g,h,i) perylene	Nitrate (mg/L)	Nitrite (mg/L)	Phosphate (mg/L)	TRPH (ug/L)
CEF-46-1S	12/21/00	13000	2900	40000	19000	74900	NA	550	N/A	N/A	1.4	<1.1	0.98	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	0.085 J	0.15	<1	23000
	01/25/01	0.28	0.44	1.4	3.2	5.32	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	0.20	0.25	290
	02/01/01	9900	2300	33000	18000	63200	300	490	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	0.20	<1.0	40000
	02/08/01	10000	2900	42000	21000	75900	<500	510	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	0.11	<1.0	55000
	02/15/01	9000	2400	34000	18000	63400	<1000	430	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	0.11	<1	74000
	02/22/01	8900	2300	34000	17000	62200	<1000	600	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	0.19	<1.0	5000
	03/08/01	11000	2900	41000	20000	74900	<500	450	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	56000
	03/21/01	11000	2600	40000	19000	72600	<1000	440	120	150	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	37000
	04/03/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/18/01	9500	2500	39000	20000	71000	<1000	470	41	130	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	53000
	05/02/01	9900	2800	39000	21000	72700	<1000	420	38	130	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	0.076	<1.0	44000
	06/29/01	2700	930	15000	12000	30630	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	26000
	07/25/01	210	150	1300	1600	3260	<10	36	5.9	21	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.61	<0.40	<1.0	2900
	08/20/01	1200	590	6900	6300	14990	520	340	43	120	<1.0	62	17	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	0.17	<0.40	<1.0	32000
	09/18/01	2100	1200	13000	11000	27300	230	400	61	130	<1.1	<1.1	1.3	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	55000
	10/24/01	2000	1500	16000	15000	34500	190	510	68	110	<1.0	<1.1	1.5	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.60	0.41	<1.0	63000
	11/15/01	2000	1600	17000	17000	37600	160	490	60	100	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	48000
	12/17/01	2000	1600	18000	13000	34600	190	490	48	170	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	51000
	03/19/02	1480	1460	14500	16400	33840	564	637	54.6	201	<1.1	95.7	28.1	<1.1	<1.1	<0.21	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	47500
	06/06/02	970	1300	10000	12000	24270	720	180	65	190	<1.0	25	18	0.3 J	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.11 J	0.12 J	<1.0	46000
	09/18/02	262	541	1170	5760	7733	542	180	19	52	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	15300
	12/13/02	534	994	1840	6940	10308	726	781	<100	233	<100	<100	<50.0	<50.0	<1.00	<0.40	<0.40	<0.20	<0.20	<0.20	<0.28	<0.20	<0.40	<0.40	<0.40	<0.10	<0.10	<0.1000	69300
	03/14/03	592	1160	1190	4580	7522	619	496	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<0.100	0.15	<0.100	77000
	06/09/03	262	626	318	1070	2276	511	947	136	162	<0.10	0.29	0.22	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	33200
	09/03/03	350	735	575	2920	4580	365	661	133	126	<0.10	0.45	0.26	0.48	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	38300
	12/11/03	430	982	1410	3540	6362	432	501	89	117	<0.10	0.26	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.100	39600
CEF-46-2S	12/21/00	300	72	51	200	623	NA	230	N/A	N/A	<1.1	5.5	3.1	0.35	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.60	<0.4	0.22	3100
	01/25/01	7.3	0.96	1.5	3.3	13.06	7.1	11	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.083	<0.40	<1.0	540
	02/01/01	93	28	150	71	342	9.9	18	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	860
	02/08/01	230	67	390	180	867	<5.0	13	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	1400
	02/15/01	360	88	630	270	1348	7.5	32	N/A	N/A	<1.1	26	3.1	2.0	2.3	0.51	0.6	0.68	0.65	0.58	0.33	0.63	0.53	0.55	0.73	<0.60	<0.40	<1.0	2100
	02/22/01	340	88	610	260	1298	10	19	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	1900
	03/08/01	390	76	440	160	1066	10	37	N/A	N/A	<1.0	29	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	1700
	03/21/01	49	5.4	16	8.4	78.8	<1.0	<1.0	<1.0	<1.0	4.4	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<520
	04/03/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/18/01	90	12	19	9.5	130.5	12	72	2.9	4.7	<1.0	34	3.7	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	1400
	05/02/01	760	180	730	520	2190	23	78	3.8	8.3	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<6.0	<4.0	<10	1900
	06/29/01	1600	170	23	160	1953	39	<1.0	<1.0	<1.0	4.4	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	NS	NS	NS	1100
	07/25/01	1100	310	40	520	1970	54	27	2.3	5.7	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.61	<0.40	<1.0	980
	08/20/01	730	160	12	220	1122	56	17	1	1.8	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	1300
	09/18/01	21	7.6	2.4	2.7	33.7	32	0.94	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	360
	10/24/01	120	110	4.4	40	274.4	50	3.4	<1.1	<1.1	<1.0	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.60	<0.40	1.2	1000
	11/15/01	8.2	4.1	<1.0	5.1	17.4	60	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	550
	12/17/01	39	82	<1.0	21	142	51	1.5	<1.1	<1.1	<1.1	<1.1	<1.0	<1.1	<1.1	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	920
	03/19/02	2.95	3.13	<1.0	3.11	9.19	104	0.544	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.0	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	404
	06/06/02	7.1	9.1	<1.0	12	28.2	200	4.8	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.0	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	500
	09/17/02	<0.5	<0.5	<0.5	<0.5	0	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	0.074	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	0.29	488
	12/13/02	<1.0	<1.0	<1.0	<1.0	<1.0	91.7	<1.04	<1.04	<1.04	<1.04	<1.04	<0.52	<0.52	<0.52	<0.21	<0.21	<0.10	<0.10	<0.10	<0.15	<0.10	<0.21	<0.21	<0.21	<0.10	<0.10	<0.1000	952
	03/14/03	<1.0	<1.0	<1.0	<1.0	<1.0	156	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.100	0.100	<0.100	1370
	06/05/03	<1.00	<1.0	<1.0	<1.0	<1.0	54.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	339
	09/03/03	<1.00	<1.0	<1.0	<1.0	<1.0	21.3	0.24	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.11	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	339
	12/11/03	<1.00	<1.0	<1.0	<3.0	<1.0	21.7	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.100	796

TABLE 3-2
GROUNDWATER ANALYTICAL RESULTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	Benzene	Ethyl Benzene	Toluene	Xylene	BETX	Methyl tert-butyl ether	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Benzo (g,h,i) perylene	Nitrate (mg/L)	Nitrite (mg/L)	Phosphate (mg/L)	TRPH (ug/L)
CEF-46-5I	12/21/00	850	38	13	150	1051	NA	1.6	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.6	<0.4	<1.0	<550
	01/25/01	180	7.4	3.1	31	221.5	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<520
	02/01/01	240	12	5.3	64	321.3	5.2	0.43	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.60	<0.40	<1.0	<530
	02/08/01	48	2.3	0.82	12	63.12	<1.0	<1.1	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	300
	02/15/01	37	<1.0	0.59	7.3	44.89	<1.0	6.5	N/A	N/A	<1.0	2.7	2.2	3.3	3.7	0.66	0.59	0.73	0.86	0.60	0.34	0.64	0.52	0.50	0.67	<0.60	<0.40	<1.0	210
	02/22/01	53	2.7	0.94	7.7	64.34	2.1	0.52	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.60	<0.40	<1.0	330
	03/08/01	64	2.9	0.53	5.5	72.93	<1.0	0.45	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	400
	03/21/01	0.13	<1.0	<1.0	<1.0	0.13	<1.0	0.52	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<520
	04/03/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/18/01	32	1.2	<1.0	4.8	38	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<530
	05/02/01	14	0.66	0.64	2.2	17.5	1.4	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.60	<0.40	<1.0	<530
	06/28/01	<1.0	<1.0	1.5	9.5	11	<1.0	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	0.8	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	0.16	<0.40	<1.0	310
	07/25/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/21/01	<1.0	1.6	3.9	20	25.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	0.74	<540
	09/18/01	1.2	2.3	5.7	30	39.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<530
	10/23/01	0.91	2.2	4.3	22	29.41	<1.0	<1.2	<1.2	<1.2	<1.0	<1.2	<1.2	<1.2	<1.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.89	<0.40	<1.0	750
	11/15/01	3.4	7.8	19	66	96.2	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<6.0	<4.0	<10.0	<510
	12/18/01	2.9	8.5	19	74	104.4	1.1	<1.0	<1.0	<1.1	<1.0	<1.1	<1.1	<1.1	<1.1	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	3.4	<1.0	<520
	03/19/02	<1.0	2.37	2.06	51.3	55.73	1.71	<1.1	<1.0	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.661	7.71	<1.0	<540
	06/06/02	<1.0	2.1	2.4	43	47.5	<1.0	<1.1	<1.0	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.661	7.71	<1.0	<500
	09/18/02	<0.5	<0.5	<0.5	13.2	13.2	<0.5	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<12	<8	<20	776
	12/13/02	<1.0	<1.0	<1.0	6.0	6.0	<1.0	<1.11	<1.11	<1.11	<1.11	<1.11	<0.56	<0.56	<0.56	<0.22	<0.22	<0.11	<0.11	<0.11	<0.16	<0.11	<0.22	<0.22	<0.22	<0.50	<0.50	0.1320	<200
	03/14/03	<1.0	<1.0	<1.0	9.0	9.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.100	0.35	3.92	<200
	06/05/03	<1.00	<1.0	<1.0	5.2	5.2	4.6	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.282	<106
	09/03/03	<1.00	<1.0	<1.0	6.6	6.6	66.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.30	0.965	333
	12/11/03	<1.00	<1.0	<1.0	4.1	4.1	70.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.30	1.31	456
CEF-46-6D	12/21/00	2.8	9.9	6	18	36.7	NA	3.5	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.6	<0.4	0.22	<560
	02/08/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.1	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<500
	02/15/01	<1.0	0.41	0.59	5.0	6	<1.0	0.55	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<540
	02/22/01	<1.0	<1.0	<1.0	1.9	1.9	<1.0	0.46	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<500
	03/07/01	<1.0	0.55	0.39	2.8	3.7	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.60	<0.60	<520
	03/21/01	69	2.3	0.62	4.2	76.1	<1.0	1.7	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.60	<0.40	<1.0	<520
	04/03/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/18/01	<1.0	0.26	<1.0	0.85	1.1	<1.0	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<520
	05/02/01	0.27	<1.0	0.43	1.3	2.0	<1.0	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.60	<0.40	<1.0	<520
	06/28/01	<1.0	<1.0	<1.0	3.1	3.1	<1.0	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<500
	07/25/01	<1.0	<1.0	2.1	7.8	9.9	<1.0	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.61	<0.40	<1.0	<520
	08/21/01	<1.0	1.2	1.6	11	13.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<540
	09/18/01	0.82	1.4	2.3	12	16.5	<1.0	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	NA	NA	NA	<520
	10/23/01	0.54	0.89	1.7	7.7	10.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<530
	11/15/01	1.7	3.2	6.9	24	35.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	<0.21	<0.20	<0.20	<0.21	<6.0	<4.0	<10.0	<520
	12/18/01	<1.0	<1.0	0.84	4.1	4.94	<1.0	<1.1	<1.0	<1.1	<1.1	<1.0	<1.1	<1.1	<1.1	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<540
	03/19/02	0.982	2.6	2.18	31.7	37.5	<1.0	0.886	<1.0	<1.0	<1.0	<1.0	<1.0	0.955	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<550
	06/06/02	<1.0	<1.0	<1.0	4.5	4.5	<1.0	0.92 J	<1.0	<1.0	<1.0	<1.0	<1.0	0.955	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.60	<0.40	<1.0	<500
	09/18/02	<0.5	0.907	<0.5	9.05	10.0	0.961	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<12	<8	<20	840
	12/13/02	<1.0	<1.0	<1.0	2.8	2.8	<1.0	<1.11	<1.11	<1.11	<1.11	<1.11	<0.56	<0.56	<0.56	<0.22	<0.22	<0.11	<0.11	<0.11	<0.16	<0.11	<0.22	<0.22	<0.22	<0.50	<0.50	4.9900	<200
	03/14/03	<1.0	<1.0	<1.0	6.0	6.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.100	0.270	4.61	274
	06/09/03	<1.00	<1.0	<1.0	8.7	8.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.674	<200
	09/03/03	<1.00	<1.0	<1.0	3.3	3.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.31	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.300	<0.30	5.81	<225
	12/10/03	<1.00	<1.0	<1.0	<3.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.100	0.33	1.34	<200

TABLE 3-2
GROUNDWATER ANALYTICAL RESULTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	Benzene	Ethyl Benzene	Toluene	Xylene	BETX	Methyl tert-butyl ether	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Benzo (g,h,i) perylene	Nitrate (mg/L)	Nitrite (mg/L)	Phosphate (mg/L)	TRPH (ug/L)
CEF-46-7I	12/21/00	9100	2800	17000	15000	43900	NA	260	N/A	N/A	0.86	<1.1	0.7	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.6	<0.4	<1.0	13000
	02/22/01	6500	1400	10000	7900	25800	6100	120	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.6	<0.4	<1.0	17000
	03/07/01	7500	1900	12000	10000	31400	5000	170	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.6	<0.4	<1.0	16000
	03/21/01	4400	1100	7300	6200	19000	3100	180	5.4	39	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.6	<0.4	<1.0	15000
	04/03/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/18/01	3400	730	3900	4400	12430	6100	200	6.1	22	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.6	<0.4	<1.0	6400
	05/02/01	5900	1200	7300	6700	21100	17000	78	1.7	14	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<120	<80	<200	5500
	06/29/01	1100	190	590	1200	3080	5000	24	<1.0	<1.0	<1.0	2.4	0.6	<1.0	<1.0	<0.20	0.74	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NS	NS	NS	3000
	07/25/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/20/01	3900	780	6000	5300	15980	6700	68	1.5	20	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.6	<0.4	<1.0	5400
	09/18/01	4600	1100	7700	4600	18000	4200	96	2.8	23	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	NA	NA	NA	10000
	10/24/01	1100	240	1600	1600	4540	3700	14	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	3.7	3000
	11/15/01	3900	860	2800	5000	12560	3100	160	<1.0	11	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.6	<0.4	<1.0	5600
	12/18/01	500	96	540	680	1816	2600	9.7	<1.1	0.53	<1.0	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.6	<0.4	<1.0	1900
	03/19/02	592	116	535	841	2084	4700	9.67	<1.0	3.36	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.15	<0.4	<1.0	1060
	06/06/02	95	<50	53	140	288	4300	5.1	<1.0	3.36	<1.0	<1.0	<1.0	<1.0	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.15	<0.4	<1.0	650
	09/17/02	432	86.6	90.2	484	1092.8	3640	9.8	<1.0	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	950
	12/13/02	1330	218	232	1010.0	2790.0	3380	52.0	6.97	11.5	<1.05	1.26	<0.53	<0.53	<0.53	<0.21	<0.21	<0.11	<0.11	<0.11	<0.15	<0.11	<0.21	<0.21	<0.21	<0.10	<0.10	<0.1000	2550
	03/14/03	945	150	86.5	904	2086	4380	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.100	<0.100	<0.100	5480
	06/09/03	678	123	51.6	752	1604.6	4190	32.4	0.42	0.24	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.50	<0.100	4080
	09/03/03	832	158	<10.0	697	1687.0	5140	123	6.12	7.92	<0.10	<0.10	0.14	0.47	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.10	<0.100	2530
	12/11/03	734	111	5	290	1140.0	5820	96.2	4.76	6.28	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.30	<0.100	5410
CEF-46-9I	12/20/00	<1.0	<1.0	<1.0	<1.0	<4.0	NA	<1.1	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.6	<0.4	<1.0	<570
	01/25/01	<1.0	<1.0	<1.0	<1.0	<4.0	1.3	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<500
	02/01/01	<1.0	<1.0	<1.0	0.15	0.15	<1.0	0.45	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	0.088	<0.21	0.084	0.13	0.15	0.081	0.19	0.099	<0.60	<0.40	<1.0	<520
	02/07/01	<1.0	<1.0	<1.0	<1.0	<4.0	0.87	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<500
	02/14/01	<1.0	0.17	<1.0	0.57	0.74	1.1	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<500
	02/21/01	<1.0	<1.0	<1.0	<1.0	<4.0	0.93	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<540
	03/08/01	<1.0	<1.0	<1.0	<1.0	<4.0	0.87	0.75	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	210
	03/21/01	<1.0	<1.0	<1.0	<1.0	<4.0	0.94	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<520
	04/03/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/17/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<510
	05/02/01	<1.0	<1.0	<1.0	<1.0	<4.0	0.82	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.6	<0.4	<1.0	<530
	06/28/01	<1.0	<1.0	<1.0	<1.0	<4.0	1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.6	<0.4	0.37	<500
	07/25/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.61	<0.40	<1.0	<520
	08/20/01	<1.0	<1.0	<1.0	<1.0	<4.0	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.6	<0.4	<1.0	330
	09/18/01	<1.0	<1.0	<1.0	<1.0	<4.0	3.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	NA	NA	NA	<520
	10/23/01	<1.0	<1.0	<1.0	<1.0	<4.0	0.59	<1.1	<1.1	<1.1	<1.0	<1.0	<1.1	<1.1	<1.1	<0.20	<0.20	<0.20	<0.20	<0.20	<0.22	<0.20	<0.20	<0.20	<0.20	0.9	<0.40	<1.0	<540
	11/15/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.6	<0.4	<1.0	<520
	12/18/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.21	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<500
	03/19/02	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.1	<1.1	<1.1	<1.0	<1.0	<1.1	<1.1	<1.1	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	0.155	<0.40	<1.0	<530
	06/06/02	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.21	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<500
	09/17/02	<0.5	<0.5	<0.5	<0.5	0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	623
	12/13/02	<1.0	<1.0	<1.0	<1.0	0.0	<1.0	<1.05	<1.05	<1.05	<1.05	<1.05	<0.53	<0.53	<0.53	<0.21	<0.21	<0.11	<0.11	<0.11	<0.15	<0.11	<0.21	<0.21	<0.21	<0.10	<0.10	<0.1000	<200
	03/14/03	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.100	0.170	<0.100	<200
	06/04/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.30	0.411	<211
	09/03/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	0.22	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.100	<0.30	<0.100	<225
	12/10/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	0.22	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.100	0.180	0.308	<200

TABLE 3-2
GROUNDWATER ANALYTICAL RESULTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	Benzene	Ethyl Benzene	Toluene	Xylene	BETX	Methyl tert-butyl ether	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Benzo (g,h,i) perylene	Nitrate (mg/L)	Nitrite (mg/L)	Phosphate (mg/L)	TRPH (ug/L)
CEF-46-12I	12/20/00	<1.0	<1.0	<1.0	<1.0	<4.0	NA	<1.1	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.6	<0.4	<1.0	<530
	01/24/01	<1.0	<1.0	<1.0	<1.0	<4.0	14	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<520
	02/01/01	<1.0	<1.0	<1.0	<1.0	<4.0	13	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<530
	02/07/01	<1.0	0.13	<1.0	0.41	0.54	19	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<500
	02/14/01	<1.0	<1.0	<1.0	<1.0	<4.0	14	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<520
	02/21/01	0.15	0.14	0.3	0.55	1.14	15	<1.1	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<500
	03/08/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<520
	03/21/01	<1.0	<1.0	<1.0	<1.0	<4.0	21	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<520
	04/03/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/17/01	<1.0	<1.0	<1.0	<1.0	<4.0	14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<540
	05/01/01	<1.0	<1.0	<1.0	<1.0	<4.0	15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<540
	06/28/01	<1.0	<1.0	<1.0	<1.0	<4.0	12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<500
	07/25/01	<1.0	<1.0	<1.0	<1.0	<4.0	11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	2	<0.40	<1.0	320
	08/20/01	<1.0	<1.0	<1.0	<1.0	<4.0	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<520
	09/17/01	<1.0	<1.0	<1.0	<1.0	<4.0	7.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<520
	10/23/01	<1.0	<1.0	<1.0	<1.0	<4.0	13	<1.1	<1.1	<1.1	<1.0	<1.1	<1.1	<1.1	<1.1	<0.20	<0.22	<0.20	<0.20	<0.20	<0.22	<0.20	<0.20	<0.20	<0.20	0.21	<0.40	<1.0	<530
	11/15/01	<1.0	<1.0	<1.0	<1.0	<4.0	17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<500
	12/18/01	<1.0	<1.0	<1.0	<1.0	<4.0	12	<1.1	<1.1	<1.1	<1.0	<1.1	<1.1	<1.1	<1.1	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<560
	03/18/02	<1.0	<1.0	<1.0	<1.0	<4.0	5.78	<1.1	<1.0	<1.1	<1.0	<1.0	<1.1	<1.1	<1.1	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<540
	06/06/02	<1.0	<1.0	<1.0	<1.0	<4.0	2.8	<1.1	<1.0	<1.1	<1.0	<1.1	<1.1	0.59 J	<1.1	0.84	0.77	0.32	0.3	0.32	0.14 J	0.3	.15 J	.18 J	0.1 J	<0.60	<0.40	<1.0	<500
	09/17/02	<0.5	<0.5	<0.5	<0.5	0	<0.5	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	0.11	<0.40	<1.0	564
	12/13/02	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.00	<2.00	<2.00	<2.00	<2.00	<1.00	<1.00	<1.00	<0.40	<0.40	<0.20	<0.20	<0.20	<0.28	<0.20	<0.40	<0.40	<0.40	<0.10	<0.10	<0.1000	<200
	03/14/03	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.100	<0.100	<0.100	<200
	06/05/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<100
	09/03/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.30	<0.100	<225
	12/11/03	<1.00	<1.0	<1.0	<3.0	<1.0	2.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.30	<0.100	<200
CEF-46-13I	12/20/00	<1.0	<1.0	<1.0	0.45	0.45	NA	0.89	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.6	<0.4	<1.0	<540
	01/24/01	<1.0	<1.0	1.5	0.62	2.12	280	0.60	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	320
	02/01/01	1.0	0.24	<1.0	0.41	1.65	190	0.39	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<530
	02/07/01	0.59	<1.0	<1.0	0.95	1.54	300	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	250
	02/14/01	<1.0	2	<1.0	8.4	10.4	200	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	230
	02/21/01	<1.0	<1.0	<1.0	4	4	260	<1.1	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	290
	03/08/01	1.5	0.73	<1.0	<1.0	2.23	250	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	510
	03/21/01	<1.0	<1.0	<1.0	7.7	7.7	250	0.73	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<520
	04/03/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/17/01	<1.0	<1.0	0.92	<1.0	0.92	210	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<530
	05/01/01	<5.0	<5.0	<5.0	2	2	260	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<600
	06/28/01	<1.0	0.2	0.99	1.4	2.59	210	<1.0	<1.0	<1.0	<1.0	0.83	<1.0	<1.0	<1.0	<0.20	0.35	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	350
	07/25/01	<1.0	<1.0	<1.0	<1.0	<4.0	180	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.61	<0.40	<1.0	410
	08/20/01	<1.0	<1.0	<1.0	<1.0	<4.0	190	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.61	<0.40	0.56	320
	09/17/01	<1.0	<1.0	0.68	0.53	1.21	160	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	NA	NA	NA	310
	10/23/01	<1.0	<1.0	<1.0	<1.0	<4.0	130	<1.1	<1.0	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<530
	11/15/01	<1.0	<1.0	<1.0	<1.0	<4.0	170	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<530
	12/18/01	<1.0	<1.0	<1.0	<1.0	<4.0	140	<1.1	<1.0	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.20	<0.21	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<540
	03/19/02	<1.0	<1.0	<1.0	<1.0	<4.0	136	<1.1	<1.0	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<530
	06/06/02	<1.0	<1.0	<1.0	<1.0	<4.0	160	<1.1	<1.0	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<500
	09/17/02	<0.5	<0.5	<0.5	<0.5	0	174	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	0.077	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	745
	12/13/02	1.0	<1.0	<1.0	<1.0	1.0	201	<1.04	<1.04	<1.04	<1.04	<1.04	<0.52	<0.52	<0.52	<0.21	<0.21	<0.10	<0.10	<0.10	<0.15	<0.10	<0.21	<0.21	<0.21	<0.10	<0.10	<0.1000	204
	03/14/03	<1.0	<1.0	<1.0	<1.0	<1.0	318	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.100	<0.100	<0.100	276
	06/05/03	1.10	<1.0	<1.0	<1.0	1.1	254	0.19	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<100
	09/03/03	<1.00	<1.0	<1.0	<1.0	<1.0	240	0.12	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.30	<0.100	<225
	12/11/03	<1.00	<1.0	<1.0	<0.30	<1.0	114	0.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.60	<0.100	208

TABLE 3-2
GROUNDWATER ANALYTICAL RESULTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	Benzene	Ethyl Benzene	Toluene	Xylene	BETX	Methyl tert-butyl ether	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Benzo (g,h,i) perylene	Nitrate (mg/L)	Nitrite (mg/L)	Phosphate (mg/L)	TRPH (ug/L)
CEF-46-14D	12/20/00	<1.0	<1.0	0.42	0.37	0.79	NA	<1.1	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	0.088	<0.4	0.26	<550
	01/24/01	<1.0	<1.0	<1.0	0.23	0.23	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	0.17	<530
	02/01/01	<1.0	<1.0	<1.0	0.33	0.33	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	0.24	<520
	02/07/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	470
	02/14/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	400
	02/21/01	0.11	<1.0	<1.0	0.35	0.46	0.41	<1.1	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	0.28	230
	03/08/01	0.21	<1.0	<1.0	<1.0	0.21	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<520
	03/21/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<500
	04/03/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/17/01	<1.0	<1.0	<1.0	<1.0	<4.0	0.75	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<510
	05/01/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	0.24	<530
	06/28/01	<1.0	<1.0	0.63	0.5	1.13	<1.0	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	0.33	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	0.16	<0.40	0.44	<500
	07/25/01	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	0.18	<0.40	<1.0	300
	08/20/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	0.65	<520
	09/17/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.60	<0.40	<1.0	<520
	10/23/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<0.20	<0.23	<0.20	<0.20	<0.23	<0.20	<0.20	<0.20	<0.20	<0.23	<0.60	<0.40	<1.0	<520
	11/15/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.21	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<500
	12/18/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.20	<0.22	<0.20	<0.22	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<540
	03/19/02	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	0.391	<520
	06/06/02	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	0.391	<500
	09/17/02	<0.5	<0.5	<0.5	<0.5	0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	0.36	554
	12/13/02	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.05	<1.05	<1.05	<1.05	<1.05	<0.53	<0.53	<0.53	<0.21	<0.21	<0.11	<0.11	<0.11	<0.15	<0.11	<0.21	<0.21	<0.21	<0.10	<0.10	0.1070	204
	03/14/03	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.100	<0.100	0.102	248
	06/04/03	<1.00	<1.0	<1.0	<1.0	<1.0	1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.102	<211
	09/03/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.30	0.188	<225
	12/10/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.100	0.176	<200
CEF-46-15I	12/20/00	<1.0	<1.0	<1.0	<1.0	<4.0	NA	<1.1	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.6	<0.4	<1.0	<550
	01/24/01	0.17	<1.0	<1.0	<1.0	0.17	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<530
	02/01/01	0.21	<1.0	<1.0	<1.0	0.21	0.68	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<520
	02/07/01	0.21	<1.0	<1.0	<1.0	0.21	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<500
	02/14/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<520
	02/21/01	0.11	<1.0	<1.0	0.25	0.36	0.27	<1.1	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<500
	03/07/01	<1.0	<1.0	<1.0	0.38	0.38	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<530
	03/21/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<530
	04/03/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/17/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<530
	05/01/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<520
	06/28/01	<1.0	<1.0	1.1	<1.0	1.1	4.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	0.58	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	0.38	<0.40	<1.0	270
	07/25/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	0.17	<0.40	<1.0	<520
	08/20/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<530
	09/17/01	<1.0	<1.0	<1.0	<1.0	<4.0	3.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<500
	10/23/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.1	<1.1	<1.1	<1.0	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<530
	11/15/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<530
	12/18/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.1	<1.1	<1.1	<1.0	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<550
	03/18/02	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.169	<0.40	<1.0	<530
	06/06/02	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<540
	09/17/02	<0.5	<0.5	<0.5	<0.5	0	<0.5	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	668
	12/13/02	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.04	<1.04	<1.04	<1.04	<1.04	<0.52	<0.52	<0.52	<0.21	<0.21	<0.10	<0.10	<0.10	<0.15	<0.10	<0.21	<0.21	<0.21	<0.10	<0.10	<0.1000	<200
	03/13/03	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<0.100	<0.100	<0.100	<200
	06/04/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<222
	09/03/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.42	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.10	<0.100	<225
	12/10/03	<1.00	<1.0	<1.0	<3.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.42	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.100	<0.100	<200

TABLE 3-2
GROUNDWATER ANALYTICAL RESULTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	Benzene	Ethyl Benzene	Toluene	Xylene	BETX	Methyl tert-butyl ether	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Benzo (g,h,i) perylene	Nitrate (mg/L)	Nitrite (mg/L)	Phosphate (mg/L)	TRPH (ug/L)
CEF-46-21I	12/20/00	<1.0	<1.0	<1.0	<1.0	<4.0	NA	<1.1	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.6	<0.4	<1.0	<550
	01/25/01	0.25	<1.0	0.70	<1.0	0.95	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	300
	02/02/01	0.45	<1.0	0.99	0.27	1.71	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<500
	02/08/01	0.91	<1.0	<1.0	<1.0	0.91	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	200
	02/16/01	0.19	0.14	0.97	0.55	1.85	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	200
	02/22/01	<1.0	0.18	0.68	<1.0	0.86	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<500
	03/08/01	<1.0	<1.0	0.32	<1.0	0.32	<1.0	<1.1	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	230
	04/03/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/18/01	0.26	<1.0	0.42	<1.0	0.68	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<520
	05/02/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	06/29/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	0.064	<0.21	<0.21	<0.21	NS	NS	NS	<550
	07/25/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/21/01	1.3	<1.0	0.73	3.1	5.13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	0.59	0.7	<520
	09/18/01	<1.0	<1.0	<1.0	1.6	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	NA	NA	NA	<520
	10/24/01	<1.0	<1.0	<1.0	0.58	0.58	<1.0	<1.1	<1.1	<1.1	<1.0	<1.1	<1.1	<1.1	<1.1	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.16	<0.40	<1.0	<530
	11/16/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<520
	12/18/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20	<0.60	<0.40	<1.0	<530
	03/19/02	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.1	<1.0	<1.1	<1.0	<1.1	<1.1	<1.0	<1.0	<0.20	<0.21	<0.20	<0.20	<0.21	<0.20	<0.21	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<520
	06/07/02	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.1	<1.0	<1.1	<1.0	<1.1	<1.1	<1.0	<1.0	<0.20	<0.21	<0.20	<0.20	<0.21	<0.20	<0.21	<0.20	<0.20	<0.20	<0.60	0.15 J	<1.0	<500
	09/18/02	<0.5	<0.5	<0.5	<0.5	0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<1.2	<0.80	<2.0	834
	12/13/02	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.00	<2.00	<2.00	<2.00	<2.00	<1.00	<1.00	<1.00	<0.40	<0.40	<0.20	<0.20	<0.20	<0.28	<0.20	<0.40	<0.40	<0.40	<0.10	<0.10	<0.1000	<200
	03/13/03	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<0.100	<0.100	<0.100	<200
	06/05/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<100
	09/03/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	0.18	0.27	0.2	<0.10	0.5	0.67	2.82	0.16	0.35	0.16	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.16	<0.10	<0.100	308
	12/11/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.10	<0.100	<200
CEF-46-24D	12/20/00	<1.0	<1.0	0.47	0.41	0.88	NA	<1.1	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.6	<0.4	0.18	<500
	01/25/01	8.3	0.81	1.0	2.0	12.11	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	0.19	<510
	02/02/01	0.25	<1.0	<1.0	0.40	0.65	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	0.30	<500
	02/08/01	0.28	0.13	<1.0	0.45	0.86	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	0.18	340
	02/15/01	0.16	0.11	0.60	0.54	1.41	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	460
	02/24/01	0.18	0.11	0.40	0.54	1.23	<1.0	<1.1	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.60	<0.40	<1.0	<500
	03/08/01	0.24	<1.0	<1.0	0.4	0.64	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	430
	03/21/01	0.47	0.34	0.38	0.97	2.16	0.82	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<520
	04/03/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.60	<0.40	0.26	<510
	04/18/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<520
	05/02/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	0.24	650
	06/29/01	<1.0	<1.0	<1.0	0.7	0.7	19	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	NS	NS	NS	<520
	07/25/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.61	<0.40	<1.0	380
	08/21/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.60	<0.40	<1.0	<540
	09/18/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	NA	NA	NA	<550
	10/24/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<530
	11/16/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<520
	12/18/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.1	<1.1	<1.0	<0.20	<0.22	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<500
	03/19/02	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<530
	06/07/02	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<500
	09/18/02	<0.5	<0.5	<0.5	<0.5	0	2.19	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	779
	12/13/02	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.00	<2.00	<2.00	<2.00	<2.00	<1.00	<1.00	<1.00	<0.40	<0.40	<0.20	<0.20	<0.20	<0.28	<0.20	<0.40	<0.40	<0.40	<0.10	<0.10	3.6100	<200
	03/14/03	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.100	0.21	0.841	<200
	06/05/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.438	<100
	09/03/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.30	0.212	<225
	12/10/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	0.16	0.119	<200

TABLE 3-2
GROUNDWATER ANALYTICAL RESULTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	Benzene	Ethyl Benzene	Toluene	Xylene	BETX	Methyl tert-butyl ether	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Benzo (g,h,i) perylene	Nitrate (mg/L)	Nitrite (mg/L)	Phosphate (mg/L)	TRPH (ug/L)
CEF-46-25I	12/20/00	<1.0	<1.0	<1.0	<1.0	<4.0	NA	<1.1	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.6	<0.4	<1.0	<560
	01/25/01	0.25	<1.0	<1.0	0.42	0.67	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	320
	02/02/01	0.27	<1.0	<1.0	<1.0	0.27	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	<500
	02/08/01	0.21	0.15	<1.0	0.43	0.79	<1.0	<1.1	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.60	<0.40	<1.0	390
	02/15/01	0.22	<1.0	0.58	0.46	1.26	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	1000
	02/22/01	0.46	<1.0	<1.0	<1.0	0.46	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	610
	03/21/01	0.42	<1.0	<1.0	<1.0	0.42	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	<500
	04/03/01	0.28	<1.0	<1.0	<1.0	0.28	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.4	<1.0	380
	04/18/01	0.32	<1.0	0.29	<1.0	0.61	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.4	<1.0	<530
	05/02/01	0.19	<1.0	<1.0	<1.0	0.19	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.4	<1.0	1000
	06/29/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	0.33	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	NS	NS	NS	<530
	07/25/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.61	<0.40	<1.0	<520
	08/21/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.4	<1.0	<520
	09/18/01	<1.0	<1.0	1.3	0.81	2.11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	NA	NA	NA	<510
	10/24/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.20	<0.21	<0.20	<0.21	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	0.16	<0.40	<1.0	<530
	11/16/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.4	<1.0	<510
	12/18/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.1	<1.0	<1.0	<0.20	<0.22	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.16	<0.40	<1.0	<540
	03/19/02	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.4	<1.0	<520
	06/07/02	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.4	<1.0	<520
	09/18/02	<0.5	<0.5	<0.5	<0.5	0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<1.2	<0.80	<2.0	810
	12/13/02	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.04	<1.04	<1.04	<1.04	<1.04	<0.52	<0.52	<0.52	<0.21	<0.21	<0.10	<0.10	<0.10	<0.15	<0.10	<0.21	<0.21	<0.21	<0.10	<0.10	<0.1000	<200
	03/13/03	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<0.100	0.15	<0.100	<200
	06/04/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<200
	09/03/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.300	<0.30	<0.100	<225
	12/10/03	<1.00	<1.0	<1.0	<3.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.100	<0.100	<200
CEF-46-26I	12/20/00	1300	78	41	310	1729	NA	<1.1	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.6	<0.4	<1.0	<530
	01/25/01	2400	270	100	820	3590	<5.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	890
	02/02/01	2000	150	77	600	2827	<1.0	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	590
	02/08/01	2100	120	83	460	2763	18	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	730
	02/16/01	2300	150	94	600	3144	10	<1.1	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.60	<0.40	<1.0	960
	02/22/01	1800	140	240	620	2800	<100	<1.1	N/A	N/A	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.60	<0.40	<1.0	610
	03/08/01	2100	160	85	620	2965	<50	<1.0	N/A	N/A	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	1000
	03/21/01	2400	190	110	750	3450	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	630
	04/03/01	2400	190	99	810	3499	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.6	<0.4	<1.0	1200
	04/18/01	2300	190	110	750	3350	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.6	<0.4	<1.0	810
	05/02/01	1100	100	46	390	1636	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<30	<20	<50	410
	06/29/01	3400	260	180	1200	5040	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	NS	NS	NS	1200
	07/25/01	2100	180	87	790	3157	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.61	<0.40	<1.0	850
	08/21/01	2000	160	49	700	2909	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.6	<0.4	<1.0	930
	09/18/01	2100	180	110	730	3120	<20	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	NA	NA	NA	720
	10/24/01	1300	97	22	390	1809	<20	<1.1	<1.0	<1.1	<1.0	<1.1	<1.1	<1.1	<1.1	<0.20	<0.22	<0.20	<0.22	<0.20	<0.22	<0.20	<0.20	<0.20	<0.20	0.16	<0.40	<1.0	720
	11/16/01	1700	120	10	430	2260	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.12	0.15	<1.0	590
	12/18/01	1300	68	<10	370	1738	11	<1.1	<1.0	<1.1	<1.0	<1.0	<1.1	<1.1	<1.0	<0.20	<0.22	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.6	<0.4	<1.0	720
	03/19/02	1510	63.4	14	424	2011.4	14.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.148	<0.40	<1.0	360
	06/06/02	1500	46	5	430	1981	14	<1.1	<1.0	<1.1	<1.1	<1.1	<1.1	<1.1	<1.0	<0.20	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	290 J
	09/18/02	1390	37.7	6.32	513	1947.02	13.5	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<6.0	<4.0	<10	1350
	12/13/02	1100	34.0	<20.0	400	1534	<20.0	7.74	<1.05	<1.05	<1.05	<1.05	<0.53	<0.53	<0.52	<0.21	<0.21	<0.11	0.31	<0.11	<0.15	0.11	<0.21	<0.21	<0.21	<0.10	<0.10	<0.1000	470
	03/14/03	866	23.3	5.4	199	1094	15.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.100	0.35	<0.100	628
	06/05/03	845	30	<10.0	314	1189	21	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	598
	09/03/03	902	24	<10.0	347	1273	17.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.12	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.300	<0.10	<0.100	488
	12/11/03	693	16.5	7.9	198	915	19.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.300	<0.30	<0.100	954
Groundwater Criteria [1]		1	30	40	20	n/a	50	20	20	20	210	20	280	210	2100	280	210	0.2	4.8	0.2	0.5	0.2	0.2	0.2	210	10,000	1000	n/a	5000
Natural Attenuation Default Source [1]		100	300	400	200	n/a	500	200	200	200	2100	200	2800	2100	21000	2800	2100	20	480	20	50	20	20	20	2100	100000	10000	n/a	50000

All values reported in ug/L
1 = Ch 62-777 F.A.C Groundwater Cleanup Target Levels (GCTL) reported in ug/L
Highlighted values indicate the compounds that exceed the GCTL

NS = Not Sampled
NA = Not Analyzed

TABLE 3-3
GROUNDWATER FIELD ANALYTICAL RESULTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)*	Temperature (°C)	Carbon Dioxide (mg/L)	Alkalinity as $CaCO_3$ (mg/L)	Ferrous Iron (mg/L)	Hydrogen Sulfide (mg/L)	Dissolved Oxygen (mg/L) **
CEF-46-1S	12/21/00	6.20	0.512	1.05	22.7	NM	200	1.4	1.0	NM
	01/25/01	6.56	0.128	4.63	22.1	70	80	0.1	0.0	NM
	02/01/01	6.47	0.275	1.83	20.1	>1000	>400	0.0	5.0	NM
	02/08/01	6.60	0.270	1.40	20.0	>1000	>400	0.0	1.0	NM
	02/15/01	5.20	0.240	1.50	20.0	>1000	>400	0.0	5.0	NM
	02/22/01	6.20	0.220	3.30	20.0	NM	NM	0.6	0.3	NM
	03/08/01	6.28	0.211	2.72	20.2	>1000	>400	1.0	1.0	NM
	03/21/01	6.20	0.220	2.30	20.0	500	340	0.2	2.0	NM
	04/18/01	6.30	0.280	2.80	20.0	>1000	>400	0.0	2.0	NM
	05/02/01	5.90	0.240	2.50	21.0	>1000	>400	0.4	2.0	NM
	06/29/01	5.97	0.190	NM	24.6	120	80	1.0	2.0	NM
	07/25/01	4.31	2.540	2.63	27.2	>1000	20	6.0	0.1	NM
	08/20/01	7.27	0.686	0.06	26.7	>1000	40	1.2	5.0	NM
	09/18/01	6.62	0.817	1.84	25.8	260	400	0.8	0.5	NM
	10/24/01	7.43	0.205	1.30	25.1	230	180	1.6	>5.0	NM
	11/15/01	8.00	0.241	0.66	24.3	150	120	1.6	5.0	NM
	12/17/01	6.00	0.263	1.19	23.5	180	100	2.8	0.7	NM
	03/19/02	6.55	0.201	1.21	21.7	100	80	1.2	0.5	NM
	06/06/02	6.56	0.194	0.94	25.8	100	120	2.0	0.9	NM
	09/18/02	6.42	0.218	0.15	27.0	310	20	6.0	0.7	NM
	12/13/02	6.94	NR	0.28	23.5	90	150	1.2	5.0	NM
	03/14/03	7.54	2.520	0.89	20.77	0	100	2.2	5.0	NM
	06/09/03	6.39	1.730	0.00	25.28	Interference	140	3.2	5.0	NM
	09/03/03	6.27	0.201	2.03	27.53	Interference	205	1	5.0	NM
	12/11/03	5.98	0.234	0.00	23.15	400	250	1.4	5.0	0.0
CEF-46-2S	12/21/00	6.20	0.962	1.06	23.2	352	720	1.0	0.0	NM
	01/25/01	6.55	0.511	2.15	19.9	400	200	1.0	0.3	NM
	02/01/01	6.39	0.625	1.81	20.3	>1000	>400	0.0	0.5	NM
	02/08/01	6.60	0.640	2.20	20.0	600	400	1.2	0.1	NM
	02/15/01	6.20	0.640	1.80	20.0	>1000	400	1.0	0.5	NM
	02/22/01	6.40	0.630	3.20	20.0	>1000	>400	0.8	0.5	NM
	03/08/01	6.52	0.576	1.67	20.2	80	300	0.6	1.0	NM
	03/21/01	6.50	0.580	2.00	20.0	360	420	1.0	0.5	NM
	04/18/01	6.40	0.690	2.00	20.0	440	300	1.2	0.5	NM
	05/02/01	6.30	0.670	3.30	21.0	400	380	1.0	2.0	NM
	06/29/01	6.52	0.689	NM	23.7	280	400	0.2	5.0	NM
	07/25/01	7.09	0.709	1.92	25.2	220	380	0.6	5.0	NM
	08/20/01	8.92	0.667	0.06	26.3	210	280	0.8	2.0	NM
	09/18/01	5.98	0.398	1.24	26.3	>1000	80	3.6	>5.0	NM
	10/24/01	8.13	0.530	1.89	24.9	140	220	0.2	>5.0	NM
	11/15/01	8.71	0.610	0.65	24.1	200	200	0.0	5.0	NM
	12/17/01	7.00	0.546	1.62	23.5	180	200	0.0	5.0	NM
	03/19/02	7.26	0.541	1.60	21.7	140	240	0.4	5.0	NM
	06/06/02	7.19	0.460	1.94	25.1	160	200	0.2	5.0	NM
	09/17/02	6.89	0.537	0.58	27.1	610	200	1.0	0.5	NM
	12/13/02	7.27	NR	0.28	24.5	130	260	0.4	0.1	NM
	03/14/03	7.08	1.620	1.60	20.88	310	165	2.2	0.05	NM
	06/05/03	6.44	1.860	0.00	24.66	228	195	2.2	0.3	NM
	09/03/03	6.25	1.480	0.03	27.94	245	160	2	0.3	NM
	12/11/03	6.47	1.070	0.40	23.85	218	190	1	1	0.6

TABLE 3-3
GROUNDWATER FIELD ANALYTICAL RESULTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)*	Temperature (°C)	Carbon Dioxide (mg/L)	Alkalinity as $CaCO_3$ (mg/L)	Ferrous Iron (mg/L)	Hydrogen Sulfide (mg/L)	Dissolved Oxygen (mg/L) **
CEF-46-5I	12/21/00	5.60	0.140	1.10	23.2	183	100	1.8	1.0	NM
	01/25/01	6.17	0.157	1.51	23.7	360	200	1.6	0.1	NM
	02/01/01	5.78	0.123	0.63	24.7	160	100	2.0	0.1	NM
	02/08/01	6.50	0.450	1.20	25.0	110	100	4.5	0.0	NM
	02/15/01	5.90	0.240	2.40	24.0	140	60	4.0	0.1	NM
	02/22/01	5.50	0.290	1.30	24.0	86	40	4.1	0.0	NM
	03/08/01	5.67	0.340	3.12	24.3	160	40	3.2	0.0	NM
	03/21/01	5.30	0.370	2.10	24.0	140	20	3.6	0.5	NM
	04/18/01	4.80	0.520	0.40	24.0	230	20	3.4	1.0	NM
	05/02/01	4.70	0.480	1.10	24.0	300	100	2.4	0.1	NM
	06/29/01	3.22	2.380	NM	24.6	400	100	4.0	0.0	NM
	07/25/01	NM	NM	NM	NM	NM	NM	NM	NM	NM
	08/21/01	NM	3.590	NM	27.1	340	20	7.4	0.0	NM
	09/18/01	3.02	3.440	0.47	25.6	>1000	20	7.0	0.0	NM
	10/23/01	5.05	5.930	1.34	25.7	500	20	8.0	0.1	NM
	11/15/01	3.81	6.280	0.71	25.2	>1000	20	80.0	0.0	NM
	12/18/01	2.00	6.200	1.60	25.5	NM	20	6.4	0.0	NM
	03/19/02	2.18	8.640	1.64	26.6	600	20	9.0	0.0	NM
	06/06/02	2.70	6.180	1.12	27.4	>1000	20	10.0	0.1	NM
	09/18/02	2.27	6.820	0.97	26.8	670	20	10+	0.0	NM
	12/12/02	2.69	NM	0.33	25.8	1000	0	8.0	0.1	NM
	03/14/03	3.54	5.810	2.05	25.23	0	0	4.2	0	NM
	06/05/03	2.00	4.840	0.23	26.92	Interference	0	9.9	0	NM
	09/03/03	2.74	4.450	0.04	27.29	Interference	0	10	0	NM
	12/11/03	2.84	4.480	4.01	22.90	568	0	6	0	0.0
CEF-46-6D	12/21/00	9.71	0.180	6.51	23.5	8	120	0.4	0.3	NM
	02/08/01	5.90	0.570	1.30	24.0	240	40	2.4	0.0	NM
	02/15/01	6.10	0.680	2.00	24.0	220	40	3.6	0.1	NM
	02/22/01	6.30	0.660	0.40	23.0	180	80	3.5	0.1	NM
	03/08/01	6.55	0.623	3.05	20.3	200	80	2.0	0.0	NM
	03/21/01	6.30	0.620	1.80	20.0	180	60	3.8	0.1	NM
	04/18/01	6.20	0.640	1.60	21.0	140	60	1.8	0.0	NM
	05/02/01	6.30	0.620	1.90	23.0	200	60	4.4	0.0	NM
	06/29/01	3.78	3.380	NM	25.2	400	60	4.4	0.2	NM
	07/25/01	6.83	2.430	3.19	26.7	360	20	6.0	0.0	NM
	08/21/01	NM	6.050	NM	27.3	>1000	20	8.0	0.0	NM
	09/18/01	2.74	7.040	0.19	25.4	300	20	6.5	0.0	NM
	10/23/01	4.92	5.890	0.76	26.1	500	20	6.2	0.0	NM
	11/15/01	3.80	7.770	1.76	24.8	>1000	20	10.0	0.0	NM
	12/18/01	2.00	6.510	0.07	24.6	NM	20	7.0	0.0	NM
	03/19/02	2.65	7.400	1.85	26.0	600	20	7.0	0.1	NM
	06/06/02	3.06	6.230	1.65	26.8	>1000	20	10.0	0.0	NM
	09/18/02	2.88	7.760	0.80	25.7	1000+	20	10+	0.0	NM
	12/12/02	2.81	NM	NM	24.8	NM	NM	NM	NM	NM
	03/14/03	3.23	8.600	2.64	25.71	0	0	4.2	0	NM
	06/09/03	2.69	9.740	0.09	27.97	Interference	0	7	0	NM
	09/03/03	2.70	8.759	0.37	27.71	Interference	0	10	0	NM
	12/10/03	2.62	0.790	0.00	23.95	Interference	0	5.4	0	0.8

TABLE 3-3
GROUNDWATER FIELD ANALYTICAL RESULTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)*	Temperature (°C)	Carbon Dioxide (mg/L)	Alkalinity as $CaCO_3$ (mg/L)	Ferrous Iron (mg/L)	Hydrogen Sulfide (mg/L)	Dissolved Oxygen (mg/L) **
CEF-46-7I	12/21/00	4.90	0.510	1.11	25.4	317	60	0.6	0.3	NM
	02/22/01	5.10	0.100	2.80	24.0	180	60	4.6	0.1	NM
	03/08/01	5.62	0.061	3.62	21.6	160	60	1.0	5.0	NM
	03/21/01	5.30	0.070	2.70	21.0	220	40	1.0	5.0	NM
	04/18/01	5.50	0.070	0.60	22.0	200	80	2.0	0.0	NM
	05/02/01	4.40	0.100	1.50	23.0	NM	NM	NM	NM	NM
	06/29/01	NM	NM	NM	NM	NM	NM	NM	NM	NM
	07/25/01	NM	NM	NM	NM	NM	NM	NM	NM	NM
	08/20/01	5.35	1.260	0.05	25.8	300	80	4.5	0.0	NM
	09/18/01	4.33	0.174	1.19	25.3	100	20	3.4	0.1	NM
	10/24/01	5.10	0.713	2.11	25.0	280	20	3.8	0.0	NM
	11/15/01	5.14	0.130	0.46	25.5	100	40	2.8	0.5	NM
	12/18/01	2.00	1.850	1.75	24.4	NM	20	5.0	0.0	NM
	03/19/02	2.69	2.650	1.81	26.0	>1000	20	4.0	0.0	NM
	06/06/02	2.65	2.920	2.83	25.6	>1000	20	3.6	0.0	NM
	09/17/02	2.97	1.400	0.51	26.8	>1000	20	10+	0.1	NM
	12/13/02	3.52	NM	0.15	25.4	110	0	4.0	0.1	NM
	03/14/03	3.23	0.250	5.24	23.41	121	0	1.8	0	NM
	06/09/03	3.80	0.191	1.05	26.12	233	0	2.2	0	NM
	09/03/03	4.51	0.226	0.12	27.32	143	0	4	2	NM
	12/11/03	5.19	0.180	0.67	23.07	70	25	3.7	2	0.0
CEF-46-9I	12/20/00	5.29	0.079	1.47	24.6	84.6	20	0.8	0.3	NM
	01/25/01	5.06	0.068	1.70	25.1	140	60	0.6	0.1	NM
	02/01/01	5.18	0.079	1.99	25.5	140	60	1.0	0.2	NM
	02/07/01	5.00	0.070	1.70	25.0	120	40	0.6	0.2	NM
	02/14/01	5.00	0.070	2.20	25.0	160	40	0.8	0.3	NM
	02/22/01	5.00	0.070	2.30	25.0	110	20	0.7	0.2	NM
	03/08/01	5.04	0.069	1.43	24.9	80	20	0.2	0.0	NM
	03/21/01	5.00	0.070	3.00	25.0	160	20	0.2	0.1	NM
	04/18/01	4.60	0.040	0.70	26.0	140	20	0.8	0.3	NM
	05/02/01	4.40	0.070	1.90	25.0	120	40	0.6	0.5	NM
	06/29/01	4.73	0.690	NM	25.3	90	20	0.6	0.3	NM
	07/25/01	5.12	0.068	2.18	25.5	180	20	0.0	0.3	NM
	08/20/01	4.87	0.073	0.05	26.4	80	20	0.6	0.2	NM
	09/18/01	4.84	0.095	0.77	25.2	150	20	0.6	0.5	NM
	10/23/01	6.24	0.060	0.34	25.8	120	20	0.8	0.2	NM
	11/15/01	5.50	0.060	1.08	24.9	90	20	1.0	0.5	NM
	12/18/01	5.00	0.060	1.61	24.9	120	20	1.0	0.3	NM
	03/19/02	5.01	0.720	1.73	25.3	120	20	0.2	0.2	NM
	06/06/02	4.86	0.074	0.99	26.1	100	20	0.4	0.5	NM
	09/17/02	4.32	0.279	0.55	26.5	880	20	10+	0.3	NM
	12/12/02	3.88	NM	0.18	25.5	330	80	7.0	0.3	NM
	03/14/03	5.47	0.914	1.35	25.40	0	0	2.2	1	NM
	06/04/03	4.75	1.09	0.60	25.73	Interference	0	6	1	NM
	09/03/03	3.74	1.04	0.84	26.85	Interference	0	3.8	1	NM
	12/10/03	3.64	1.01	6.21	26.29	Interference	0	5.2	0.5	0.0

TABLE 3-3
GROUNDWATER FIELD ANALYTICAL RESULTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)*	Temperature (°C)	Carbon Dioxide (mg/L)	Alkalinity as $CaCO_3$ (mg/L)	Ferrous Iron (mg/L)	Hydrogen Sulfide (mg/L)	Dissolved Oxygen (mg/L) **
CEF-46-12I	12/20/00	5.57	0.160	1.91	26.5	193.6	80	0.8	2.0	NM
	01/24/01	5.36	0.144	2.06	25.9	130	80	0.6	3.0	NM
	02/01/01	5.52	,152	2.07	25.7	260	80	0.5	1.0	NM
	02/07/01	5.30	0.152	2.82	26.0	360	60	0.6	1.0	NM
	02/14/01	5.30	0.150	2.70	26.0	120	100	0.6	0.8	NM
	02/22/01	5.20	0.150	1.90	26.0	180	80	0.4	0.5	NM
	03/08/01	5.46	0.148	1.94	25.4	300	40	0.2	0.5	NM
	03/21/01	5.30	0.150	0.70	26.0	200	40	0.2	0.7	NM
	04/18/01	5.00	0.150	1.60	26.0	220	80	0.8	2.0	NM
	05/02/01	5.00	0.150	0.80	26.0	280	40	0.6	0.3	NM
	06/29/01	4.99	0.015	NM	25.4	240	40	0.2	0.0	NM
	07/25/01	5.91	0.147	1.02	26.0	100	40	0.0	0.0	NM
	08/20/01	4.86	0.164	0.05	26.6	160	40	0.6	0.0	NM
	09/17/01	5.08	0.211	0.75	26.5	250	40	0.2	0.0	NM
	10/23/01	6.54	0.123	0.23	26.5	200	20	0.4	0.0	NM
	11/15/01	5.88	0.119	0.77	26.4	180	40	0.4	0.1	NM
	12/18/01	5.00	0.120	1.20	25.5	200	20	0.8	0.0	NM
	03/18/02	3.67	0.287	1.70	27.6	100	20	3.2	0.0	NM
	06/06/02	4.66	0.140	1.57	27.1	100	20	3.0	0.0	NM
	09/17/02	4.61	0.130	0.83	28.1	330	20	0.8	0.1	NM
	12/13/02	4.58	NM	1.02	27.5	120	40	4.0	0.1	NM
	03/14/03	3.38	0.178	3.92	26.07	96	0	2.2	0	NM
	06/05/03	4.22	0.155	1.65	26.33	168	0	1	0	NM
	09/03/03	4.71	0.308	0.00	27.88	136	5	0	0	NM
	12/11/03	4.97	0.31	0.61	23.96	84	1	2.2	0.1	0.8
CEF-46-13I	12/20/00	5.40	0.120	1.23	25.0	188	20	1.4	5.0	NM
	01/24/01	5.27	0.102	2.00	24.7	200	100	1.2	5.0	NM
	02/01/01	5.35	0.117	2.37	25.1	240	80	1.0	5.0	NM
	02/07/01	5.20	0.110	2.20	25.0	240	60	1.2	5.0	NM
	02/14/01	5.20	0.110	2.20	26.0	120	80	1.0	5.0	NM
	02/22/01	5.20	0.120	2.70	26.0	300	60	1.1	>5.0	NM
	03/08/01	5.42	0.123	1.99	25.4	220	20	0.6	0.0	NM
	03/21/01	5.20	0.110	1.80	25.0	260	40	1.2	5.0	NM
	04/18/01	5.00	0.110	0.60	26.0	340	160	0.8	2.0	NM
	05/02/01	5.00	0.120	2.50	27.0	200	40	1.4	1.0	NM
	06/29/01	4.99	0.110	NM	25.8	200	40	0.8	>5	NM
	07/25/01	5.62	0.113	2.37	25.8	220	60	1.0	5.0	NM
	08/20/01	4.29	0.110	0.05	26.4	360	40	0.6	2.0	NM
	09/17/01	4.93	0.148	6.60	26.0	220	20	0.8	2.0	NM
	10/23/01	6.33	0.093	0.89	25.9	200	40	1.0	5.0	NM
	11/15/01	5.89	0.093	2.07	25.7	200	20	0.8	5.0	NM
	12/18/01	4.00	0.093	1.16	25.3	220	20	1.0	5.0	NM
	03/19/02	5.03	0.115	1.27	25.7	200	20	0.8	5.0	NM
	06/06/02	4.15	0.330	0.66	27.4	260	20	10.0	1.5	NM
	09/17/02	4.72	0.112	0.23	27.6	730	40	1.6	2.0	NM
	12/13/02	3.96	NM	0.17	26.3	260	40	2.0	5.0	NM
	03/14/03	6.29	0.110	0.99	25.90	280	0	2.5	5	NM
	06/05/03	3.71	0.643	0.00	26.44	Interference	0	3.6	5	NM
	09/03/03	3.81	0.999	0.36	28.50	Interference	0	2.4	2	NM
	12/11/03	3.93	0.999	1.11	24.10	Interference	0	3.2	5	0.0

TABLE 3-3
GROUNDWATER FIELD ANALYTICAL RESULTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)*	Temperature (°C)	Carbon Dioxide (mg/L)	Alkalinity as $CaCO_3$ (mg/L)	Ferrous Iron (mg/L)	Hydrogen Sulfide (mg/L)	Dissolved Oxygen (mg/L) **
CEF-46-14D	12/20/00	5.87	0.109	1.52	24.9	84	540	2.4	0.3	NM
	01/24/01	5.77	0.093	1.63	23.4	70	160	2.2	0.5	NM
	02/01/01	5.78	0.099	0.58	25.8	140	100	2.4	0.7	NM
	02/07/01	5.60	0.090	0.60	NM	140	40	2.2	0.5	NM
	02/14/01	5.70	0.090	1.60	25.0	110	60	2.4	0.7	NM
	02/22/01	5.60	0.100	0.60	25.0	100	60	1.8	0.5	NM
	03/08/01	6.03	0.098	3.54	23.2	120	20	2.0	2.0	NM
	03/21/01	5.80	0.100	2.20	24.0	100	40	2.0	1.0	NM
	04/18/01	5.40	0.100	1.70	25.0	120	60	2.0	0.7	NM
	05/02/01	5.40	0.100	1.20	1.3	120	40	2.0	0.5	NM
	06/29/01	5.40	0.083	NM	26.0	80	40	2.0	4.0	NM
	07/25/01	6.79	0.092	1.91	25.1	175	80	2.4	0.1	NM
	08/20/01	9.60	0.099	3.02	25.8	70	60	3.4	0.3	NM
	09/17/01	5.40	0.137	0.80	25.2	150	100	NM	2.0	NM
	10/23/01	7.53	0.074	1.42	25.3	60	60	2.6	0.5	NM
	11/15/01	6.23	0.082	1.40	24.6	100	40	2.6	1.0	NM
	12/18/01	5.00	0.078	0.90	24.7	110	40	2.0	2.0	NM
	03/19/02	5.52	0.094	1.85	25.1	120	40	1.5	1.0	NM
	06/06/02	5.30	0.097	0.72	26.2	100	40	1.8	0.0	NM
	09/17/02	5.27	0.101	0.33	27.7	540	40	2.4	0.7	NM
	12/12/02	4.75	NM	0.36	26.0	140	80	2.5	2.0	NM
	03/14/03	6.26	0.098	0.85	25.32	180	15	2.5	5.0	NM
	06/04/03	5.77	0.106	0.17	26.14	186	20	2.3	2.0	NM
	09/03/03	4.82	0.215	0.86	27.66	155	20	2.2	5.0	NM
	12/10/03	5.36	0.282	0.07	25.92	0.136	10	2.4	1.0	0.0
CEF-46-15I	12/20/00	5.01	0.108	1.27	22.2	86.6	40	3.2	1.0	NM
	01/24/01	4.56	0.142	2.06	22.5	220	40	1.2	0.0	NM
	02/01/01	4.36	0.197	0.68	24.1	200	40	0.4	0.0	NM
	02/07/01	4.13	0.205	2.77	23.4	120	40	0.8	0.0	NM
	02/14/01	4.00	0.210	4.60	23.0	150	60	1.4	0.7	NM
	02/22/01	4.00	0.190	3.40	23.0	100	20	1.2	0.0	NM
	03/08/01	4.27	0.191	1.27	23.1	100	40	0.8	0.0	NM
	03/21/01	4.30	0.180	0.70	23.0	200	40	2.4	0.0	NM
	04/18/01	4.00	0.180	2.30	23.0	160	20	1.6	0.0	NM
	05/02/01	4.20	0.160	1.20	24.0	200	20	4.0	0.0	NM
	06/29/01	3.49	0.208	NM	23.1	140	60	1.4	0.1	NM
	07/25/01	5.80	0.184	2.30	23.5	200	20	3.2	0.0	NM
	08/20/01	2.53	0.178	0.06	26.7	360	20	4.6	0.0	NM
	09/17/01	4.22	0.229	2.40	24.1	220	20	4.6	0.0	NM
	10/23/01	5.61	0.141	0.28	24.0	200	20	3.2	0.0	NM
	11/15/01	4.75	0.139	0.41	23.6	160	20	1.6	0.0	NM
	12/18/01	4.00	0.133	1.77	23.4	170	20	3.8	0.0	NM
	03/18/02	4.06	0.163	2.80	24.2	160	20	1.8	0.0	NM
	06/06/02	4.36	0.159	0.08	24.0	200	20	4.0	0.0	NM
	09/17/02	4.44	0.164	0.22	24.6	880	20	3.0	0.1	NM
	12/12/02	3.89	NM	1.49	23.7	191	60	4.2	0.0	NM
	03/13/03	4.64	0.191	0.90	22.79	343	0	3.2	0	NM
	06/04/03	1.76	0.172	0.59	22.89	368	10	3.3	0	NM
	09/03/03	3.99	0.369	0.45	24.16	367	0	2.8	0	NM
	12/10/03	4.00	0.29	6.16	23.64	124	1	3.5	0.10	5.0

TABLE 3-3
GROUNDWATER FIELD ANALYTICAL RESULTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)*	Temperature (°C)	Carbon Dioxide (mg/L)	Alkalinity as $CaCO_3$ (mg/L)	Ferrous Iron (mg/L)	Hydrogen Sulfide (mg/L)	Dissolved Oxygen (mg/L) **
CEF-46-21I	12/20/00	4.86	0.047	1.35	23.2	9.4	60	0.8	0.0	NM
	01/25/01	4.39	0.153	4.00	24.9	100	60	2.0	0.1	NM
	02/02/01	4.09	0.131	2.25	23.3	120	100	2.6	0.1	NM
	02/08/01	4.10	0.400	2.60	24.0	400	80	5.0	0.7	NM
	02/16/01	3.70	0.320	2.10	24.0	200	60	3.6	0.5	NM
	02/22/01	3.70	0.400	2.50	24.0	120	60	3.2	0.3	NM
	03/08/01	3.21	0.490	3.87	23.2	>1000	>400	5.0	0.1	NM
	03/21/01	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/18/01	3.10	1.400	0.80	22.0	640	20	4.2	0.0	NM
	05/02/01	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/29/01	NM	NM	NM	NM	NM	NM	NM	NM	NM
	07/25/01	NM	NM	NM	NM	NM	NM	NM	NM	NM
	08/21/01	NM	0.902	NM	26.7	500	20	5.2	0.1	NM
	09/18/01	3.07	2.430	2.66	26.5	400	20	4.8	0.3	NM
	10/24/01	6.01	0.537	1.77	26.7	240	20	2.8	0.7	NM
	11/16/01	2.04	0.584	1.68	26.0	NM	20	2.6	5.0	NM
	12/18/01	2.00	0.785	1.23	25.8	NM	20	3.6	0.3	NM
	03/19/02	3.21	0.948	1.87	25.6	600	20	1.2	0.3	NM
	06/07/02	2.76	2.220	3.63	25.6	NM	20	2.8	2.0	NM
	09/18/02	3.10	1.490	0.77	26.4	1000+	20	10+	1.0	NM
	12/12/02	3.26	NM	1.17	24.9	1000	0	6.0	1.0	NM
	03/13/03	3.75	0.713	2.35	23.94	0	0	3	0	NM
	06/05/03	3.12	0.798	0.00	24.22	Interference	0	3.9	0.7	NM
	09/03/03	3.34	0.406	2.82	26.30	115	0	1.6	0	NM
	12/11/03	3.58	0.476	3.43	23.07	89	0	1.6	0	2.0
CEF-46-24D	12/20/00	6.15	0.129	0.13	21.9	16.4	60	2.3	0.1	NM
	01/25/01	5.93	0.099	0.44	22.9	160	100	2.0	0.1	NM
	02/02/01	6.07	0.104	0.70	23.1	320	60	1.4	0.1	NM
	02/08/01	6.20	0.110	0.60	24.0	96	100	1.6	0.1	NM
	02/15/01	5.80	0.120	0.50	24.0	90	40	1.4	0.0	NM
	02/22/01	5.80	0.130	1.00	24.0	90	60	1.8	0.1	NM
	03/08/01	6.05	0.154	1.65	22.9	120	40	1.2	0.0	NM
	03/21/01	5.80	0.160	1.60	23.0	140	60	NM	0.1	NM
	04/18/01	5.90	0.210	2.00	24.0	120	60	3.0	0.0	NM
	05/02/01	3.60	0.590	5.10	23.0	100	20	0.2	0.0	NM
	06/29/01	3.55	0.770	NM	23.4	160	20	0.8	0.0	NM
	07/25/01	NM	2.500	1.76	26.5	>1000	20	4.4	0.0	NM
	08/21/01	NM	1.580	NM	27.9	140	20	6.4	0.1	NM
	09/18/01	3.56	1.140	0.50	26.7	160	20	2.2	0.1	NM
	10/24/01	5.51	1.380	1.13	26.8	260	20	5.0	0.0	NM
	11/16/01	2.33	0.774	0.96	26.0	NM	20	4.6	0.0	NM
	12/18/01	3.00	0.756	1.02	25.7	NM	20	5.0	0.0	NM
	03/19/02	3.60	0.920	1.35	25.9	200	20	3.4	0.1	NM
	06/07/02	2.94	2.520	3.53	28.1	NM	20	4.4	0.0	NM
	09/18/02	2.73	2.400	0.03	27.3	1990	20	10+	0.0	NM
	12/12/02	3.27	NM	0.37	28.3	0	0	5.1	0.0	NM
	03/14/03	3.70	2.530	2.23	27.46	0	0	4	0	NM
	06/05/03	0.36	3.160	0.36	28.22	Interference	0	5.9	0	NM
	09/03/03	3.20	2.110	0.21	27.68	Interference	0	5.4	0	NM
	12/10/03	3.24	0.200	0.30	26.18	Interference	0	3.8	0	0.0

TABLE 3-3
GROUNDWATER FIELD ANALYTICAL RESULTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)*	Temperature (°C)	Carbon Dioxide (mg/L)	Alkalinity as $CaCO_3$ (mg/L)	Ferrous Iron (mg/L)	Hydrogen Sulfide (mg/L)	Dissolved Oxygen (mg/L) **
CEF-46-25I	12/20/00	5.81	0.167	2.88	24.6	20.6	120	0.6	5.0	NM
	01/25/01	4.92	0.066	0.22	26.4	200	40	1.2	>5.0	NM
	02/02/01	5.15	0.077	0.82	26.6	200	40	1.2	5.0	NM
	02/08/01	5.20	0.060	0.70	27.0	140	40	1.1	>5.0	NM
	02/15/01	4.70	0.070	0.50	27.0	150	20	1.6	>5.0	NM
	02/22/01	5.00	0.070	1.50	27.0	140	40	1.5	>5.0	NM
	03/08/01	5.14	0.063	3.41	26.2	200	20	1.4	5.0	NM
	03/21/01	4.90	0.070	1.90	26.0	120	20	1.4	5.0	NM
	04/18/01	4.90	0.070	1.00	26.0	140	2	108.0	>5	NM
	05/02/01	4.60	0.070	1.60	27.0	160	20	1.4	5.0	NM
	06/29/01	4.58	0.066	NM	26.7	80	20	1.4	5.0	NM
	07/25/01	NM	0.447	2.45	26.7	>1000	20	3.6	5.0	NM
	08/21/01	NM	0.088	NM	27.7	180	20	2.6	5.0	NM
	09/18/01	4.53	0.195	1.70	26.5	120	20	4.0	5.0	NM
	10/24/01	6.11	0.214	0.98	26.6	60	20	2.5	5.0	NM
	11/16/01	3.39	0.288	2.08	25.9	NM	20	4.0	>5.0	NM
	12/18/01	4.00	0.449	1.32	26.0	NM	20	4.0	5.0	NM
	03/19/02	3.84	1.370	2.15	26.4	240	20	4.0	5.0	NM
	06/07/02	3.79	1.400	0.89	26.5	NM	20	4.0	5.0	NM
	09/18/02	3.71	0.999	0.63	26.6	780	20	10+	5.0	NM
	12/12/02	3.97	NM	0.34	25.7	0	40	10.0	5.0	NM
	03/13/03	6.16	1.420	1.03	25.35	0	0	4.5	5	NM
	06/04/03	5.98	1.440	0.00	25.76	0	0	6	5	NM
	09/03/03	3.77	0.910	0.53	26.43	Interference	0	3.8	5	NM
	12/10/03	3.95	0.860	5.82	24.15	Interference	0	3.5	5	0.0
CEF-46-26I	12/20/00	8.53	0.099	0.03	23.1	24.2	NR	1.4	NR	NM
	01/25/01	5.13	0.049	0.37	24.8	220	100	1.0	5.0	NM
	02/02/01	5.20	0.042	0.46	24.3	200	60	1.0	5.0	NM
	02/08/01	5.30	0.040	0.80	24.0	250	140	0.8	>5.0	NM
	02/16/01	5.00	0.040	2.10	24.0	160	40	1.0	5.0	NM
	02/22/01	5.10	0.040	0.80	25.0	200	60	1.2	>5.0	NM
	03/08/01	5.17	0.040	1.22	24.0	240	40	1.0	2.0	NM
	03/21/01	5.1	0.04	2.3	24.0	240	60	NR	5.0	NM
	04/18/01	4.9	0.04	1.2	24.0	180	40	0.2	>5	NM
	05/02/01	5.07	0.043	0.99	24.5	160	60	1.0	5.0	NM
	06/29/01	4.63	0.098	NM	24.1	20	20	3.8	5.0	NM
	07/25/01	NM	0.383	2.01	24.4	>1000	40	5.0	5.0	NM
	08/21/01	NM	0.505	NM	25.7	200	20	7.2	5.0	NM
	09/18/01	3.97	1.13	0.93	24.4	260	20	6.0	3.0	NM
	10/24/01	6.47	1.84	0.55	24.7	260	20	8.0	2.0	NM
	11/16/01	3.31	2.12	2.86	24.2	NM	20	4.6	>5.0	NM
	12/18/01	3	2.15	1.87	24.3	NM	20	8.0	5.0	NM
	03/19/02	3.58	2.750	1.29	25.0	700	20	5.0	5.0	NM
	06/06/02	3.54	2.44	1.04	25.8	NR	20	6.0	5.0	NM
	09/18/02	3.29	2.39	0.25	25.6	1590	20	10+	5.0	NM
	12/13/02	3.79	NM	0.75	24.6	1000	0	10.0	5.0	NM
	03/14/03	6.34	0.063	4.66	26.88	0	0	4.6	5	NM
	06/05/03	3.31	2.88	0.00	24.60	Interference	0	9	5	NM
	09/03/03	3.40	1.99	0.12	25.14	Interference	0	7.8	5	NM
	12/11/03	3.52	0.224	0.00	22.18	Interference	0	3	5	0.0

* Horiba Multimeter
**Dissolved Oxygen Hach Test Kit
NM = Not Measured
NR = No Reading Taken

4.0 Conclusions and Recommendations

4.1. Conclusions

The soil-screening results performed in the soil-contamination area indicate that BTEX, MTBE, naphthalene, and TRPH levels have decreased from the baseline soil-sampling event; however, contaminant concentrations are still considerably higher than the SCTLs.

Seven of the fourteen groundwater monitoring wells at the site exhibited groundwater-contaminant concentrations greater than the GCTLs during the baseline-sampling event. At the end of the third year of operation, groundwater sampled from five monitoring wells (CEF-46-1S, CEF-46-5I, CEF-46-7I, CEF-46-26I, and CEF-46-13I) continued to exhibit contaminant-concentrations considerably greater than the GCTLs. In general, the contaminant-concentrations in monitoring wells CEF-46-7I and CEF-46-13I have decreased from the baseline sampling-event. LNAPL was not noted in any monitoring well during the monitoring period.

4.2 Recommendations

Continued monitoring of the system to enhance aerobic activity and increase biodegradation in the aquifer is recommended. Airflow rates should be optimized to ensure that it is effectively impacting the areas where it is required in order to gradually make the groundwater more aerobic. Current nutrient (TEP and nitrous oxide) feed rates should be optimized to bring pH closer to neutral levels that could maximize biodegradation.

5.0 References

CH2M HILL Constructors, Inc. September 2000. Work Plan Addendum No. 08 Nutrient Injection System Installations at Building 9, former Tanks 9L1 and 9L2 and building 46, Former Tanks 46R, 46D, 46SUL, and 46UL; Naval Air Station Cecil Field, Jacksonville, Florida.

Harding Lawson Associates. 1998. Site Assessment Report, NAS Cecil Field, Jacksonville, Florida.

Priester and Associates. September 2000. PHA-ER Remediation System Design Specifications, Building 46 Site, Remedial Action Plan Addendum.

Tetra Tech NUS, Inc. June 2000. Remedial Action Plan Addendum; Building 46, Former Tanks 46R, 46D, 46SUL and 46UL; Naval Air Station Cecil Field, Jacksonville, Florida.

Appendix A

Map: Injection Well, Monitor Well and Soil Boring Site Map

MAP SHOWING SPECIFIC PURPOSE SURVEY OF

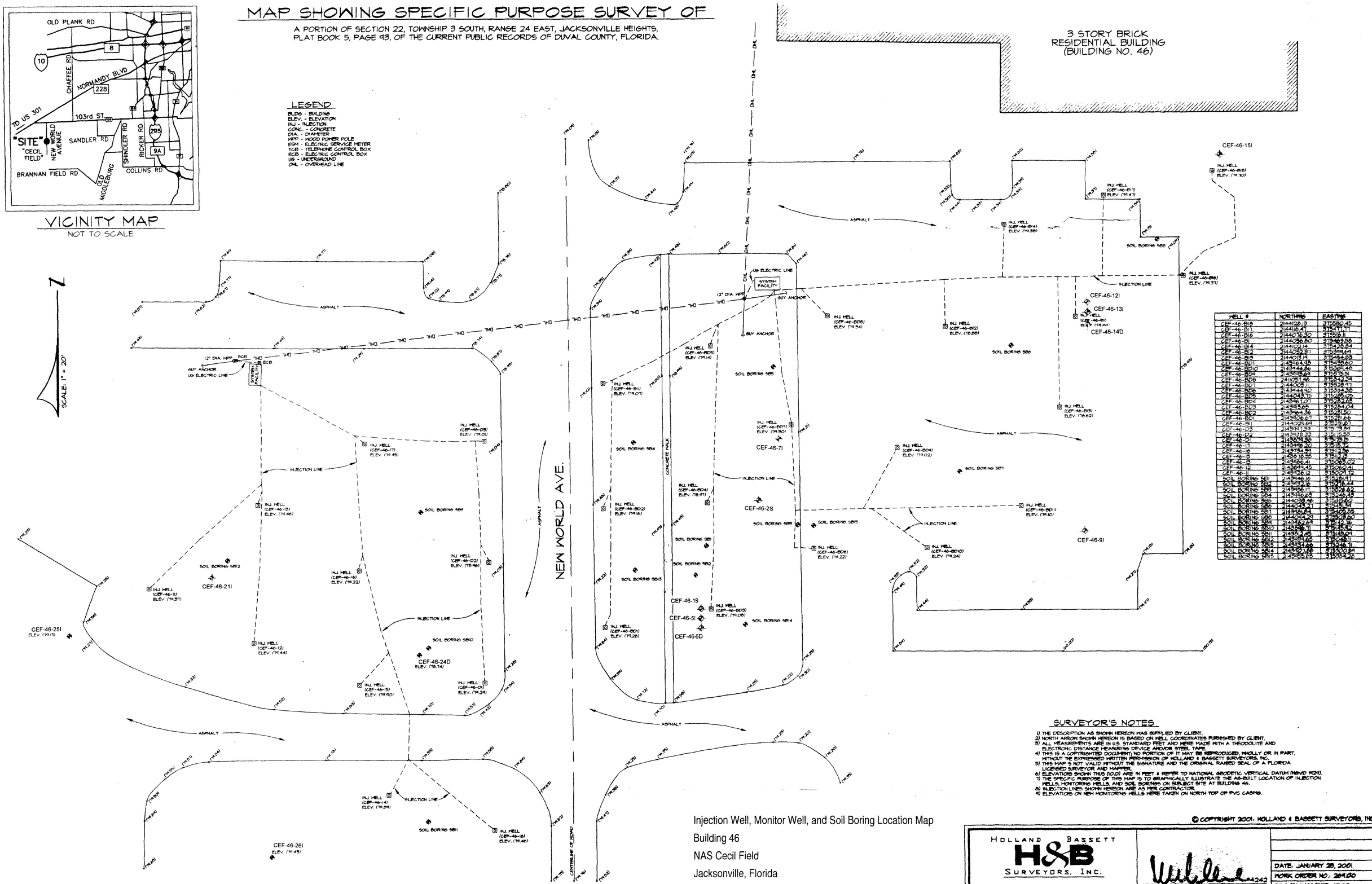
A PORTION OF SECTION 22, TOWNSHIP 3 SOUTH, RANGE 24 EAST, JACKSONVILLE HEIGHTS, PLAT BOOK 5, PAGE 93, OF THE CURRENT PUBLIC RECORDS OF DUVAL COUNTY, FLORIDA.

VICINITY MAP

NOT TO SCALE

LEGEND

BLDG - BUILDING
ELEV. - ELEVATION
INJ - INJECTION
CONC. - CONCRETE
DIA. - DIAMETER
WPP - WOOD POWER POLE
ESM - ELECTRIC SERVICE METER
TCB - TELEPHONE CONTROL BOX
ECB - ELECTRIC CONTROL BOX
UG - UNDERGROUND
OHL - OVERHEAD LINE



WELL #	NORTHING	EASTING
CEF-46-B18	2144128.13	375580.45
CEF-46-B17	2144116.47	375477.17
CEF-46-B16	2144016.30	375518.11
CEF-46-B1	2144298.80	375463.56
CEF-46-B14	2144129.14	375428.84
CEF-46-B12	2144092.57	375348.64
CEF-46-B13	2144013.19	375454.83
CEF-46-B21	2143964.36	375490.60
CEF-46-B10	2143944.86	375391.46
CEF-46-B24	2143918.49	375418.51
CEF-46-B28	2143857.46	375342.54
CEF-46-B31	2144005.11	375328.47
CEF-46-B06	2143944.90	375332.36
CEF-46-B25	2144043.75	375286.02
CEF-46-B04	2143967.07	375282.08
CEF-46-B23	2143915.65	375284.04
CEF-46-B02	2143964.36	375241.50
CEF-46-B01	2143906.67	375231.66
CEF-46-B11	2144022.09	375231.87
CEF-46-D3	2143947.38	375175.84
CEF-46-D2	2143938.93	375175.53
CEF-46-D7	2143978.36	375119.76
CEF-46-17	2143988.40	375116.46
CEF-46-16	2143984.93	375112.56
CEF-46-13	2143978.55	375112.13
CEF-46-13	2143966.41	375063.02
CEF-46-12	2143949.45	375020.41
CEF-46-11	2143926.12	375021.12
SOIL BORING 581	2143946.16	375261.47
SOIL BORING 582	2143939.16	375218.44
SOIL BORING 583	2143956.13	375182.22
SOIL BORING 584	2143966.65	375149.48
SOIL BORING 585	2144028.46	375310.62
SOIL BORING 586	2144047.47	375415.81
SOIL BORING 587	2143981.24	375425.02
SOIL BORING 588	2144014.24	375508.80
SOIL BORING 589	2143962.69	375529.36
SOIL BORING 590	2143958.71	375582.62
SOIL BORING 591	2143914.49	375145.04
SOIL BORING 592	2143884.42	375048.11
SOIL BORING 593	2143911.48	375038.11
SOIL BORING 594	2143902.28	375040.84
SOIL BORING 595	2143936.83	375054.32

SURVEYOR'S NOTES

1) THE DESCRIPTION AS SHOWN HEREON WAS SUPPLIED BY CLIENT.
2) NORTH ARROW SHOWN HEREON IS BASED ON WELL COORDINATES FURNISHED BY CLIENT.
3) ALL MEASUREMENTS ARE IN U.S. STANDARD FEET AND WERE MADE WITH A THEODOLITE AND ELECTRONIC DISTANCE MEASURING DEVICE AND/OR STEEL TAPE.
4) THIS IS A COPYRIGHTED DOCUMENT, NO PORTION OF IT MAY BE REPRODUCED, WHOLLY OR IN PART, WITHOUT THE EXPRESSED WRITTEN PERMISSION OF HOLLAND & BASSETT SURVEYORS, INC.
5) THIS MAP IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
6) ELEVATIONS SHOWN THUS (10.0) ARE IN FEET & REFER TO NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929).
7) THE SPECIFIC PURPOSE OF THIS MAP IS TO GRAPHICALLY ILLUSTRATE THE AS-BUILT LOCATION OF INJECTION WELLS, MONITORING WELLS, AND SOIL BORINGS ON SUBJECT SITE AT BUILDING 46.
8) INJECTION LINES SHOWN HEREON ARE AS PER CONTRACTOR.
9) ELEVATIONS ON NEW MONITORING WELLS WERE TAKEN ON NORTH TOP OF PVC CASING.

Injection Well, Monitor Well, and Soil Boring Location Map
Building 46
NAS Cecil Field
Jacksonville, Florida

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H&B
SURVEYORS, INC.
7801 ALTON AVENUE TEL(904) 805-9846
JACKSONVILLE, FLORIDA 32211 FAX(904) 805-9847
FLORIDA CERTIFICATE OF AUTHORIZATION NO. LB 6788

#4242
ROBERT E. HOLLAND
FL REGISTRATION NO. 4242
CHARLES R. BASSETT, JR.
FL REGISTRATION NO. 4841

DATE: JANUARY 28, 2001
WORK ORDER NO.: 264.00
PROJECT NUMBER: 17100
SHEET 1 OF 1
DRAWING NO.: D-17100

Appendix B

Laboratory Analytical Reports for Soil Samples

TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division

COOLER RECEIPT FORM BC# 357518

Client: Terraine, Inc.

Cooler Received On: 12/12/03 And Opened On: 12/12/03 By: Mike McBride

(Signature)

1. Temperature of Cooler when opened 34 Degrees Celsius
2. Were custody seals on outside of cooler?.....YES...NO...NA
   a. If yes, how many, what kind and where:_____
3. Were custody seals on containers and intact?.....NO...YES...NA
4. Were the seals intact, signed, and dated correctly?.....YES...NO...NA
5. Were custody papers inside cooler?.....YES...NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....YES...NO...NA
7. Did you sign the custody papers in the appropriate place?.....YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Cooling process: Ice Ice pack Ice(direct contact) Dry ice Other None
10. Did all containers arrive in good condition(unbroken)?.....YES...NO...NA
11. Were all container labels complete (#,date,signed,pres,etc)?.....YES...NO...NA
12. Did all container labels and tags agree with custody papers?.....YES...NO...NA
13. Were correct containers used for the analysis requested?.....YES...NO...NA
14. a. Were VOA vials received?.....YES...NO...NA
    b. Was there any observable head space present in any VOA vial?.....NO...YES...NA
15. Was sufficient amount of sample sent in each container?.....YES...NO...NA
16. Were correct preservatives used?.....YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?.....NO...YES...NA
18. See attached for resolution of non-conformance:

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

357518

TestAmerica ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

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

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
Address: 2622 NW 97th Ave
City/State/Zip Code: Miami FL 33172
Project Manager: James Young
Telephone Number: 305-513-4901 Fax: 305-513-4902
Sampler Name: (Print Name) Karen Baer / Larry Wolski
Sampler Signature: Karen Baer

Project Name: Cecil Field ~~Test~~ Building 46
Project #: 04-41001/3
Site/Location ID: ~~Test~~ State: FL
Report To: James Young
Invoice To: James Young
Quote #: 0423021 0902 PO#: 04-41001/3

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

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: BTEX MTBE 8021B; PAH 8270; TRPH FL-PRO; Nitrate/Nitrite Orthophosphate

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	HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	BTEX MTBE 8021B	PAH 8270	TRPH FL-PRO	Nitrate/Nitrite Orthophosphate	REMARKS
CEF-46-2S	12/11/03	1038			GW		5				3		X	X	X	X	193302
CEF-46-5I	12/11/03	0740			GW		5				3		X	X	X	X	03
CEF-46-7I	12/11/03	1159			GW		5				3		X	X	X	X	04
CEF-46-12I	12/11/03	0857			GW		5				3		X	X	X	X	05
SB-14 4'	12/11/03	1329			S					1	2	2	X	X	X		03A 193299
SB-1 6'	12/11/03	1430			S					1	2	3	X	X	X		1300
SB-2 2'	12/11/03	1415			S					1	2	2	X	X	X		193301
CEF-46-1S	12/11/03	1130			GW		5				3		X	X	X	X	06
CEF-46-13I	12/11/03	0848			GW		5				3		X	X	X	X	07
CEF-46-21F	12/11/03	0939			GW		5				3		X	X	X	X	08
CEF-46-26I	12/11/03	1000			GW		5				3		X	X	X	X	09
FB-BLDG46	12/11/03	1020			DI		4				2		X	X	X	X	10
Trip Blank	12/11/03				DI								X				193311

Special Instructions:

Relinquished By	Date	Time	Received By	Date	Time
Karen Baer	12/11/03	1600			
			Received By: [signature]	12-12-03	0805

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp: 34c
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

* 48 hour hold - report nitrate, nitrite separately.

TestAmerica
ANALYTICAL TESTING CORPORATION

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800-765-0980 • 615-726-3404 Fax

12/20/03 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 BUILDING 46
Project Number: 04-41001/3.
Laboratory Project Number: 357518.

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
SB-14 (4')	03-A193299	12/11/03
SB-1 (6')	03-A193300	12/11/03
SB-2 (2')	03-A193301	12/11/03
CEF-46-2S	03-A193302	12/11/03
CEF-46-5I	03-A193303	12/11/03
CEF-46-7I	03-A193304	12/11/03
CEF-46-12I	03-A193305	12/11/03
CEF-46-1S	03-A193306	12/11/03
CEF-46-13I	03-A193307	12/11/03
CEF-46-21I	03-A193308	12/11/03
CEF-46-26I	03-A193309	12/11/03
EB-BLDG46	03-A193310	12/11/03
Trip Blank	03-A193311	12/11/03

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Sample Identification	Lab Number	Collection Date

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

Report Approved By: Roxanne L Connor Report Date: 12/20/03

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

Project: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Sampler: K.BAER/L.WOLSKI

Lab Number: 03-A193299
Sample ID: SB-14 (4')
Sample Type: Soil
Site ID:

Date Collected: 12/11/03
Time Collected: 14:30
Date Received: 12/12/03
Time Received: 8:05
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	85.0	%		1	12/12/03	18:25	M. Ricke	CLP	3465
ORGANIC PARAMETERS									
Benzene	0.0147	mg/kg	0.0009	1	12/15/03	11:53	H. Wagner	8021B	4983
Ethylbenzene	0.0016	mg/kg	0.0009	1	12/15/03	11:53	H. Wagner	8021B	4983
Toluene	0.0011	mg/kg	0.0009	1	12/15/03	11:53	H. Wagner	8021B	4983
Xylenes, total	0.0055	mg/kg	0.0009	1	12/15/03	11:53	H. Wagner	8021B	4983
MTBE	ND	mg/kg	0.004	1	12/15/03	11:53	H. Wagner	8021B	4983
TRPH	126	mg/kg	20	2	12/20/03	9:18	M.Jarrett	FPRO	557
EXTRACTABLE ORGANICS									
Acenaphthene	ND	mg/kg	0.0033	1	12/16/03	10:54	D. Harris	8270C-SIM	5470
Acenaphthylene	0.0155	mg/kg	0.0033	1	12/16/03	10:54	D. Harris	8270C-SIM	5470
Anthracene	0.0132	mg/kg	0.0033	1	12/16/03	10:54	D. Harris	8270C-SIM	5470
Benzo(a)anthracene	0.0234	mg/kg	0.0033	1	12/16/03	10:54	D. Harris	8270C-SIM	5470
Benzo(a)pyrene	0.0419	mg/kg	0.0033	1	12/16/03	10:54	D. Harris	8270C-SIM	5470
Benzo(b)fluoranthene	0.0343	mg/kg	0.0033	1	12/16/03	10:54	D. Harris	8270C-SIM	5470
Benzo(g,h,i)perylene	0.0376	mg/kg	0.0033	1	12/16/03	10:54	D. Harris	8270C-SIM	5470
Benzo(k)fluoranthene	0.0241	mg/kg	0.0033	1	12/16/03	10:54	D. Harris	8270C-SIM	5470
Chrysene	0.0191	mg/kg	0.0033	1	12/16/03	10:54	D. Harris	8270C-SIM	5470
Dibenz(a,h)anthracene	0.0162	mg/kg	0.0033	1	12/16/03	10:54	D. Harris	8270C-SIM	5470
Fluoranthene	0.0287	mg/kg	0.0033	1	12/16/03	10:54	D. Harris	8270C-SIM	5470
Fluorene	0.00891	mg/kg	0.0033	1	12/16/03	10:54	D. Harris	8270C-SIM	5470
Indeno(1,2,3-cd)pyrene	0.0333	mg/kg	0.0033	1	12/16/03	10:54	D. Harris	8270C-SIM	5470
2-Methylnaphthalene	0.795	mg/kg	0.0132	4	12/16/03	23:19	D. Harris	8270C-SIM	5470

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A193299
Sample ID: SB-14 (4')
Project: 04-41001/3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Naphthalene	1.01	mg/kg	0.0132	4	12/16/03	23:19	D. Harris	8270C-SIM	5470
Phenanthrene	0.00759	mg/kg	0.0033	1	12/16/03	10:54	D. Harris	8270C-SIM	5470
Pyrene	0.0337	mg/kg	0.0033	1	12/16/03	10:54	D. Harris	8270C-SIM	5470
1-Methylnapthalene	0.49	mg/kg	0.0132	4	12/16/03	23:19	D. Harris	8270C-SIM	5470

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
FL-PRO	25. g	2.0 ml	12/16/03		K. Turner	FDEP
PAH-SIM	29.7 gm	1.0 ml	12/13/03		M. Ricke	SW3550
BTX Prep	5.68 g	5.0 ml	12/11/03	14:30	H. Wagner	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	116.	65. - 119.
TPH sur, o-Terphenyl	110. #	62. - 109.
TPH Surr, C-35	114.	60. - 118.
BNA Surr-Nitrobenzene-d5	76.	44. - 99.
BNA Surr-2-Fluorobiphenyl	55.	45. - 94.
BNA Surr-Terphenyl-d14	62.	53. - 104.

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.
All results reported on a wet weight basis.

End of Sample Report.

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ANALYTICAL REPORT

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

Project: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Sampler: K.BAER/L.WOLSKI

Lab Number: 03-A193300
Sample ID: SB-1 (6')
Sample Type: Soil
Site ID:

Date Collected: 12/11/03
Time Collected: 14:30
Date Received: 12/12/03
Time Received: 8:05
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	77.8	%		1	12/12/03	18:25	M. Ricke	CLP	3465
ORGANIC PARAMETERS									
Benzene	0.486	mg/kg	0.043	50	12/14/03	19:19	H. Wagner	8021B	4969
Ethylbenzene	1.11	mg/kg	0.043	50	12/14/03	19:19	H. Wagner	8021B	4969
Toluene	0.572	mg/kg	0.043	50	12/14/03	19:19	H. Wagner	8021B	4969
Xylenes, total	12	mg/kg	0.0861	100	12/15/03	14:31	H. Wagner	8021B	4983
MTBE	0.228	mg/kg	0.215	50	12/14/03	19:19	H. Wagner	8021B	4969
TRPH	154	mg/kg	50	5	12/19/03	19:06	M.Jarrett	FPRO	557
EXTRACTABLE ORGANICS									
Acenaphthene	0.0099	mg/kg	0.0033	1	12/16/03	11:28	D. Harris	8270C-SIM	5470
Acenaphthylene	ND	mg/kg	0.0033	1	12/16/03	11:28	D. Harris	8270C-SIM	5470
Anthracene	0.0191	mg/kg	0.0033	1	12/16/03	11:28	D. Harris	8270C-SIM	5470
Benzo(a)anthracene	ND	mg/kg	0.0033	1	12/16/03	11:28	D. Harris	8270C-SIM	5470
Benzo(a)pyrene	0.0142	mg/kg	0.0033	1	12/16/03	11:28	D. Harris	8270C-SIM	5470
Benzo(b)fluoranthene	0.0102	mg/kg	0.0033	1	12/16/03	11:28	D. Harris	8270C-SIM	5470
Benzo(g,h,i)perylene	0.00957	mg/kg	0.0033	1	12/16/03	11:28	D. Harris	8270C-SIM	5470
Benzo(k)fluoranthene	0.00726	mg/kg	0.0033	1	12/16/03	11:28	D. Harris	8270C-SIM	5470
Chrysene	ND	mg/kg	0.0033	1	12/16/03	11:28	D. Harris	8270C-SIM	5470
Dibenz(a,h)anthracene	ND	mg/kg	0.0033	1	12/16/03	11:28	D. Harris	8270C-SIM	5470
Fluoranthene	0.0158	mg/kg	0.0033	1	12/16/03	11:28	D. Harris	8270C-SIM	5470
Fluorene	0.0356	mg/kg	0.0033	1	12/16/03	11:28	D. Harris	8270C-SIM	5470
Indeno(1,2,3-cd)pyrene	0.0116	mg/kg	0.0033	1	12/16/03	11:28	D. Harris	8270C-SIM	5470
2-Methylnaphthalene	2.9	mg/kg	0.066	20	12/17/03	9:28	D. Harris	8270C-SIM	5470

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A193300
Sample ID: SB-1 (6')
Project: 04-41001/3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Naphthalene	2.11	mg/kg	0.066	20	12/17/03	9:28	D. Harris	8270C-SIM	5470
Phenanthrene	0.0238	mg/kg	0.0033	1	12/16/03	11:28	D. Harris	8270C-SIM	5470
Pyrene	0.0122	mg/kg	0.0033	1	12/16/03	11:28	D. Harris	8270C-SIM	5470
1-Methylnapthalene	1.72	mg/kg	0.066	20	12/17/03	9:28	D. Harris	8270C-SIM	5470

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
FL-PRO	25. g	2.0 ml	12/16/03		K. Turner	FDEP
PAH-SIM	30.5 gm	1.0 ml	12/13/03		M. Ricke	SW3550
BTX Prep	5.81 g	5.0 ml	12/11/03	14:30	H. Wagner	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	105.	65. - 119.
BNA Surr-Nitrobenzene-d5	70.	44. - 99.
BNA Surr-2-Fluorobiphenyl	54.	45. - 94.
BNA Surr-Terphenyl-d14	63.	53. - 104.

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.
All results reported on a wet weight basis.
FLAPRO surrogate recovery diluted out due to sample matrix

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

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ANALYTICAL REPORT

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

Project: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Sampler: K.BAER/L.WOLSKI

Lab Number: 03-A193301
Sample ID: SB-2 (2')
Sample Type: Soil
Site ID:

Date Collected: 12/11/03
Time Collected: 14:15
Date Received: 12/12/03
Time Received: 8:05
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	87.1	%		1	12/12/03	18:25	M. Ricke	CLP	3465
ORGANIC PARAMETERS									
Benzene	0.0442	mg/kg	0.001	1	12/14/03	19:50	H. Wagner	8021B	4969
Ethylbenzene	14.9	mg/kg	0.104	100	12/15/03	15:03	H. Wagner	8021B	4983
Toluene	10.4	mg/kg	0.104	100	12/15/03	15:03	H. Wagner	8021B	4983
Xylenes, total	192	mg/kg	1.04	1000	12/15/03	17:10	H. Wagner	8021B	6098
MTBE	0.008	mg/kg	0.005	1	12/14/03	19:50	H. Wagner	8021B	4969
TRPH	1010	mg/kg	100	10	12/19/03	19:26	M.Jarrett	FPRO	557
EXTRACTABLE ORGANICS									
Acenaphthene	0.17	mg/kg	0.0033	1	12/16/03	12:02	D. Harris	8270C-SIM	5470
Acenaphthylene	0.109	mg/kg	0.0033	1	12/16/03	12:02	D. Harris	8270C-SIM	5470
Anthracene	0.117	mg/kg	0.0033	1	12/16/03	12:02	D. Harris	8270C-SIM	5470
Benzo(a)anthracene	0.0459	mg/kg	0.0033	1	12/16/03	12:02	D. Harris	8270C-SIM	5470
Benzo(a)pyrene	0.0284	mg/kg	0.0033	1	12/16/03	12:02	D. Harris	8270C-SIM	5470
Benzo(b)fluoranthene	0.0191	mg/kg	0.0033	1	12/16/03	12:02	D. Harris	8270C-SIM	5470
Benzo(g,h,i)perylene	0.0188	mg/kg	0.0033	1	12/16/03	12:02	D. Harris	8270C-SIM	5470
Benzo(k)fluoranthene	0.0122	mg/kg	0.0033	1	12/16/03	12:02	D. Harris	8270C-SIM	5470
Chrysene	0.0221	mg/kg	0.0033	1	12/16/03	12:02	D. Harris	8270C-SIM	5470
Dibenz(a,h)anthracene	ND	mg/kg	0.0033	1	12/16/03	12:02	D. Harris	8270C-SIM	5470
Fluoranthene	0.0696	mg/kg	0.0033	1	12/16/03	12:02	D. Harris	8270C-SIM	5470
Fluorene	0.311	mg/kg	0.0033	1	12/16/03	12:02	D. Harris	8270C-SIM	5470
Indeno(1,2,3-cd)pyrene	0.0158	mg/kg	0.0033	1	12/16/03	12:02	D. Harris	8270C-SIM	5470
2-Methylnaphthalene	39.5	mg/kg	0.66	200	12/17/03	1:01	D. Harris	8270C-SIM	5470

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A193301
Sample ID: SB-2 (2')
Project: 04-41001/3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Naphthalene	39.2	mg/kg	0.66	200	12/17/03	1:01	D. Harris	8270C-SIM	5470
Phenanthrene	0.414	mg/kg	0.0066	2	12/17/03	0:27	D. Harris	8270C-SIM	5470
Pyrene	0.101	mg/kg	0.0033	1	12/16/03	12:02	D. Harris	8270C-SIM	5470
1-Methylnapthalene	21.1	mg/kg	0.66	200	12/17/03	1:01	D. Harris	8270C-SIM	5470

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
FL-PRO	25. g	2.0 ml	12/16/03		K. Turner	FDEP
PAH-SIM	30.2 gm	1.0 ml	12/13/03		M. Ricke	SW3550
BTX Prep	4.79 g	5.0 ml	12/11/03	14:15	H. Wagner	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	133. #	65. - 119.
BNA Surr-Nitrobenzene-d5	1060 #	44. - 99.
BNA Surr-2-Fluorobiphenyl	54.	45. - 94.
BNA Surr-Terphenyl-d14	64.	53. - 104.

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.
All results reported on a wet weight basis.
SIMS 8270 surrogates outside QC range due to sample matrix.
FLARPRO surrogate recovery diluted out due to sample matrix

End of Sample Report.

Appendix C

Laboratory Analytical Reports for Groundwater Samples

TestAmerica
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Nashville Division

COOLER RECEIPT FORM BC# 357518

Client: Terraine, Inc.

Cooler Received On: 12/12/03 And Opened On: 12/12/03 By: Mike McBride

(Signature)

1. Temperature of Cooler when opened 34 Degrees Celsius
2. Were custody seals on outside of cooler?.....YES...NO...NA
   a. If yes, how many, what kind and where:_____
3. Were custody seals on containers and intact?.....NO...YES...NA
4. Were the seals intact, signed, and dated correctly?.....YES...NO...NA
5. Were custody papers inside cooler?.....YES...NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....YES...NO...NA
7. Did you sign the custody papers in the appropriate place?.....YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Cooling process: Ice Ice pack Ice(direct contact) Dry ice Other None
10. Did all containers arrive in good condition(unbroken)?.....YES...NO...NA
11. Were all container labels complete (#,date,signed,pres,etc)?.....YES...NO...NA
12. Did all container labels and tags agree with custody papers?.....YES...NO...NA
13. Were correct containers used for the analysis requested?.....YES...NO...NA
14. a. Were VOA vials received?.....YES...NO...NA
    b. Was there any observable head space present in any VOA vial?.....NO...YES...NA
15. Was sufficient amount of sample sent in each container?.....YES...NO...NA
16. Were correct preservatives used?.....YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?.....NO...YES...NA
18. See attached for resolution of non-conformance:

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

357518

TestAmerica ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

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

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
Address: 2622 NW 97th Ave
City/State/Zip Code: Miami FL 33172
Project Manager: James Young
Telephone Number: 305-513-4901 Fax: 305-513-4902
Sampler Name: (Print Name) Karen Baer / Larry Wolski
Sampler Signature: Karen Baer

Project Name: Cecil Field ~~Test~~ Building 46
Project #: 04-41001/3
Site/Location ID: ~~Test~~ State: FL
Report To: James Young
Invoice To: James Young
Quote #: 0423021 0902 PO#: 04-41001/3

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

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: BTEX MTBE 8021B; PAH 8270; TRPH FL-PRO; Nitrate/Nitrite Orthophosphate

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	HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	BTEX MTBE 8021B	PAH 8270	TRPH FL-PRO	Nitrate/Nitrite Orthophosphate	REMARKS
CEF-46-2S	12/11/03	1038			GW		5				3		X	X	X	X	193302
CEF-46-5I	12/11/03	0740			GW		5				3		X	X	X	X	03
CEF-46-7I	12/11/03	1159			GW		5				3		X	X	X	X	04
CEF-46-12I	12/11/03	0857			GW		5				3		X	X	X	X	05
SB-14 4'	12/11/03	1329			S					1	2	2	X	X	X		03A 193299
SB-1 6'	12/11/03	1430			S					1	2	3	X	X	X		1300
SB-2 2'	12/11/03	1415			S					1	2	2	X	X	X		193301
CEF-46-1S	12/11/03	1130			GW		5				3		X	X	X	X	06
CEF-46-13I	12/11/03	0848			GW		5				3		X	X	X	X	07
CEF-46-21F	12/11/03	0939			GW		5				3		X	X	X	X	08
CEF-46-26I	12/11/03	1000			GW		5				3		X	X	X	X	09
FB-BLDG46	12/11/03	1020			DI		4				2		X	X	X	X	10
Trip Blank	12/11/03				DI								X				193311

Special Instructions:

Relinquished By	Date	Time	Received By	Date	Time
Karen Baer	12/11/03	1600			
			Received By: [signature]	12-12-03	0805

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp: 34c
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

* 48 hour hold - report nitrate, nitrite separately.

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12/20/03 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 BUILDING 46
Project Number: 04-41001/3.
Laboratory Project Number: 357518.

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
SB-14 (4')	03-A193299	12/11/03
SB-1 (6')	03-A193300	12/11/03
SB-2 (2')	03-A193301	12/11/03
CEF-46-2S	03-A193302	12/11/03
CEF-46-5I	03-A193303	12/11/03
CEF-46-7I	03-A193304	12/11/03
CEF-46-12I	03-A193305	12/11/03
CEF-46-1S	03-A193306	12/11/03
CEF-46-13I	03-A193307	12/11/03
CEF-46-21I	03-A193308	12/11/03
CEF-46-26I	03-A193309	12/11/03
EB-BLDG46	03-A193310	12/11/03
Trip Blank	03-A193311	12/11/03

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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: Roxanne L Connor Report Date: 12/20/03

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

Project: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Sampler: K.BAER/L.WOLSKI

Lab Number: 03-A193302
Sample ID: CEF-46-2S
Sample Type: Water
Site ID:

Date Collected: 12/11/03
Time Collected: 10:38
Date Received: 12/12/03
Time Received: 8:05
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	12/14/03	17:40	I. Ahmed	8021B	3704
Ethylbenzene	ND	ug/L	1.0	1.0	12/14/03	17:40	I. Ahmed	8021B	3704
Toluene	ND	ug/L	1.0	1.0	12/14/03	17:40	I. Ahmed	8021B	3704
Xylenes (Total)	ND	ug/L	3.0	1.0	12/15/03	12:58	I. Ahmed	8021B	6634
Methyl-t-butylether	21.7	ug/L	1.0	1.0	12/14/03	17:40	I. Ahmed	8021B	3704
TRPH	796.	ug/L	200.	1.0	12/15/03	18:44	L. Watson	FPRO	5501
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	12/14/03	20:05	D. Harris	8270C-SIM	4351
Acenaphthylene	ND	ug/L	0.10	1.0	12/14/03	20:05	D. Harris	8270C-SIM	4351
Anthracene	ND	ug/L	0.10	1.0	12/14/03	20:05	D. Harris	8270C-SIM	4351
Benzo(a)anthracene	ND	ug/L	0.10	1.0	12/14/03	20:05	D. Harris	8270C-SIM	4351
Benzo(a)pyrene	ND	ug/L	0.10	1.0	12/14/03	20:05	D. Harris	8270C-SIM	4351
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	12/14/03	20:05	D. Harris	8270C-SIM	4351
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	12/14/03	20:05	D. Harris	8270C-SIM	4351
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	12/14/03	20:05	D. Harris	8270C-SIM	4351
Chrysene	ND	ug/L	0.10	1.0	12/14/03	20:05	D. Harris	8270C-SIM	4351
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	12/14/03	20:05	D. Harris	8270C-SIM	4351
Fluoranthene	ND	ug/L	0.10	1.0	12/14/03	20:05	D. Harris	8270C-SIM	4351
Fluorene	ND	ug/L	0.10	1.0	12/14/03	20:05	D. Harris	8270C-SIM	4351
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	12/14/03	20:05	D. Harris	8270C-SIM	4351
2-Methylnaphthalene	ND	ug/L	0.10	1.0	12/14/03	20:05	D. Harris	8270C-SIM	4351
Naphthalene	ND	ug/L	0.10	1.0	12/14/03	20:05	D. Harris	8270C-SIM	4351
Phenanthrene	ND	ug/L	0.10	1.0	12/14/03	20:05	D. Harris	8270C-SIM	4351
Pyrene	ND	ug/L	0.10	1.0	12/14/03	20:05	D. Harris	8270C-SIM	4351
1-Methylnaphthalene	ND	ug/L	0.10	1.0	12/14/03	20:05	D. Harris	8270C-SIM	4351

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A193302
Sample ID: CEF-46-2S
Project: 04-41001/3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/L	0.100	1.0	12/12/03	15:28	S. Overton	300	3043
Nitrite-N as N	ND	mg/L	0.30	3.0	12/12/03	15:28	S. Overton	300	3043
Ortho Phosphate as P	ND	mg/L	0.100	1.0	12/12/03	14:06	T. Beverly	365.2	2833

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	12/13/03		K. Turner	3510C
Fla Pro	1000 ml	2.0 ml	12/13/03		M. Ricke	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	149. #	82. - 142.
TPH Surr, C-35	108.	42. - 193.
BTEX/GRO Surr., a,a,a-TFT	95.	69. - 129.
BNA Surr-Nitrobenzene-d5	84.	34. - 107.
BNA Surr-2-Fluorobiphenyl	51.	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.

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ANALYTICAL REPORT

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

Project: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Sampler: K.BAER/L.WOLSKI

Lab Number: 03-A193303
Sample ID: CEF-46-5I
Sample Type: Water
Site ID:

Date Collected: 12/11/03
Time Collected: 7:40
Date Received: 12/12/03
Time Received: 8:05
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	12/14/03	18:11	I. Ahmed	8021B	3704
Ethylbenzene	ND	ug/L	1.0	1.0	12/14/03	18:11	I. Ahmed	8021B	3704
Toluene	ND	ug/L	1.0	1.0	12/14/03	18:11	I. Ahmed	8021B	3704
Xylenes (Total)	4.1	ug/L	3.0	1.0	12/15/03	13:30	I. Ahmed	8021B	6634
Methyl-t-butylether	70.0	ug/L	1.0	1.0	12/14/03	18:11	I. Ahmed	8021B	3704
TRPH	456.	ug/L	200.	1.0	12/15/03	19:03	L. Watson	FPRO	5501
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	12/14/03	20:39	D. Harris	8270C-SIM	4351
Acenaphthylene	ND	ug/L	0.10	1.0	12/14/03	20:39	D. Harris	8270C-SIM	4351
Anthracene	ND	ug/L	0.10	1.0	12/14/03	20:39	D. Harris	8270C-SIM	4351
Benzo(a)anthracene	ND	ug/L	0.10	1.0	12/14/03	20:39	D. Harris	8270C-SIM	4351
Benzo(a)pyrene	ND	ug/L	0.10	1.0	12/14/03	20:39	D. Harris	8270C-SIM	4351
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	12/14/03	20:39	D. Harris	8270C-SIM	4351
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	12/14/03	20:39	D. Harris	8270C-SIM	4351
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	12/14/03	20:39	D. Harris	8270C-SIM	4351
Chrysene	ND	ug/L	0.10	1.0	12/14/03	20:39	D. Harris	8270C-SIM	4351
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	12/14/03	20:39	D. Harris	8270C-SIM	4351
Fluoranthene	ND	ug/L	0.10	1.0	12/14/03	20:39	D. Harris	8270C-SIM	4351
Fluorene	ND	ug/L	0.10	1.0	12/14/03	20:39	D. Harris	8270C-SIM	4351
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	12/14/03	20:39	D. Harris	8270C-SIM	4351
2-Methylnaphthalene	ND	ug/L	0.10	1.0	12/14/03	20:39	D. Harris	8270C-SIM	4351
Naphthalene	ND	ug/L	0.10	1.0	12/14/03	20:39	D. Harris	8270C-SIM	4351
Phenanthrene	ND	ug/L	0.10	1.0	12/14/03	20:39	D. Harris	8270C-SIM	4351
Pyrene	ND	ug/L	0.10	1.0	12/14/03	20:39	D. Harris	8270C-SIM	4351
1-Methylnaphthalene	ND	ug/L	0.10	1.0	12/14/03	20:39	D. Harris	8270C-SIM	4351

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A193303
Sample ID: CEF-46-5I
Project: 04-41001/3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/L	0.100	1.0	12/12/03	15:28	S. Overton	300	3043
Nitrite-N as N	ND	mg/L	0.30	3.0	12/12/03	15:28	S. Overton	300	3043
Ortho Phosphate as P	1.31	mg/L	0.100	1.0	12/12/03	14:06	T. Beverly	365.2	2833

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	12/13/03		K. Turner	3510C
Fla Pro	1000 ml	2.0 ml	12/13/03		M. Ricke	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	178. #	82. - 142.
TPH Surr, C-35	140.	42. - 193.
BTEX/GRO Surr., a,a,a-TFT	97.	69. - 129.
BNA Surr-Nitrobenzene-d5	124. #	34. - 107.
BNA Surr-2-Fluorobiphenyl	57.	40. - 96.
BNA Surr-Terphenyl-d14	57.	26. - 106.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A193303
Sample ID: CEF-46-5I
Project: 04-41001/3

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.
FLPRP surrogate recovery elevated due to sample matrix.

End of Sample Report.

TestAmerica
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ANALYTICAL REPORT

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

Project: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Sampler: K.BAER/L.WOLSKI

Lab Number: 03-A193304
Sample ID: CEF-46-7I
Sample Type: Water
Site ID:

Date Collected: 12/11/03
Time Collected: 11:59
Date Received: 12/12/03
Time Received: 8:05
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	734.	ug/L	20.0	20.0	12/15/03	14:01	I. Ahmed	8021B	6634
Ethylbenzene	111.	ug/L	1.0	1.0	12/14/03	18:43	I. Ahmed	8021B	3704
Toluene	5.0	ug/L	1.0	1.0	12/14/03	18:43	I. Ahmed	8021B	3704
Xylenes (Total)	290.	ug/L	3.0	1.0	12/14/03	18:43	I. Ahmed	8021B	3704
Methyl-t-butylether	5820	ug/L	50.0	50.0	12/15/03	17:41	I. Ahmed	8021B	6645
TRPH	5410	ug/L	1000	5.0	12/16/03	8:45	L. Watson	FPRO	5501
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	12/14/03	22:16	D. Harris	8270C-SIM	4351
Acenaphthylene	ND	ug/L	0.10	1.0	12/14/03	22:16	D. Harris	8270C-SIM	4351
Anthracene	ND	ug/L	0.10	1.0	12/14/03	22:16	D. Harris	8270C-SIM	4351
Benzo(a)anthracene	ND	ug/L	0.10	1.0	12/14/03	22:16	D. Harris	8270C-SIM	4351
Benzo(a)pyrene	ND	ug/L	0.10	1.0	12/14/03	22:16	D. Harris	8270C-SIM	4351
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	12/14/03	22:16	D. Harris	8270C-SIM	4351
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	12/14/03	22:16	D. Harris	8270C-SIM	4351
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	12/14/03	22:16	D. Harris	8270C-SIM	4351
Chrysene	ND	ug/L	0.10	1.0	12/14/03	22:16	D. Harris	8270C-SIM	4351
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	12/14/03	22:16	D. Harris	8270C-SIM	4351
Fluoranthene	ND	ug/L	0.10	1.0	12/14/03	22:16	D. Harris	8270C-SIM	4351
Fluorene	ND	ug/L	0.10	1.0	12/14/03	22:16	D. Harris	8270C-SIM	4351
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	12/14/03	22:16	D. Harris	8270C-SIM	4351
2-Methylnaphthalene	6.28	ug/L	0.10	1.0	12/14/03	22:16	D. Harris	8270C-SIM	4351
Naphthalene	96.2	ug/L	2.00	20.0	12/15/03	8:48	D. Harris	8270C-SIM	4351
Phenanthrene	ND	ug/L	0.10	1.0	12/14/03	22:16	D. Harris	8270C-SIM	4351
Pyrene	ND	ug/L	0.10	1.0	12/14/03	22:16	D. Harris	8270C-SIM	4351
1-Methylnaphthalene	4.76	ug/L	0.10	1.0	12/14/03	22:16	D. Harris	8270C-SIM	4351

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A193304
Sample ID: CEF-46-7I
Project: 04-41001/3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/L	0.100	1.0	12/12/03	15:28	S. Overton	300	3043
Nitrite-N as N	ND	mg/L	0.30	3.0	12/12/03	15:28	S. Overton	300	3043
Ortho Phosphate as P	ND	mg/L	0.100	1.0	12/12/03	14:06	T. Beverly	365.2	2833

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	12/13/03		K. Turner	3510C
Fla Pro	1000 ml	2.0 ml	12/13/03		M. Ricke	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	125.	82. - 142.
TPH Surr, C-35	130.	42. - 193.
BTEX/GRO Surr., a,a,a-TFT	91.	69. - 129.
BNA Surr-Nitrobenzene-d5	88.	34. - 107.
BNA Surr-2-Fluorobiphenyl	54.	40. - 96.
BNA Surr-Terphenyl-d14	51.	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: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Sampler: K.BAER/L.WOLSKI

Lab Number: 03-A193305
Sample ID: CEF-46-12I
Sample Type: Water
Site ID:

Date Collected: 12/11/03
Time Collected: 8:57
Date Received: 12/12/03
Time Received: 8:05
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	12/14/03	19:14	I. Ahmed	8021B	3704
Ethylbenzene	ND	ug/L	1.0	1.0	12/14/03	19:14	I. Ahmed	8021B	3704
Toluene	ND	ug/L	1.0	1.0	12/14/03	19:14	I. Ahmed	8021B	3704
Xylenes (Total)	ND	ug/L	3.0	1.0	12/14/03	19:14	I. Ahmed	8021B	3704
Methyl-t-butylether	2.2	ug/L	1.0	1.0	12/15/03	14:32	I. Ahmed	8021B	6634
TRPH	ND	ug/L	200.	1.0	12/15/03	19:43	L. Watson	FPRO	5501
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	12/14/03	22:50	D. Harris	8270C-SIM	4351
Acenaphthylene	ND	ug/L	0.10	1.0	12/14/03	22:50	D. Harris	8270C-SIM	4351
Anthracene	ND	ug/L	0.10	1.0	12/14/03	22:50	D. Harris	8270C-SIM	4351
Benzo(a)anthracene	ND	ug/L	0.10	1.0	12/14/03	22:50	D. Harris	8270C-SIM	4351
Benzo(a)pyrene	ND	ug/L	0.10	1.0	12/14/03	22:50	D. Harris	8270C-SIM	4351
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	12/14/03	22:50	D. Harris	8270C-SIM	4351
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	12/14/03	22:50	D. Harris	8270C-SIM	4351
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	12/14/03	22:50	D. Harris	8270C-SIM	4351
Chrysene	ND	ug/L	0.10	1.0	12/14/03	22:50	D. Harris	8270C-SIM	4351
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	12/14/03	22:50	D. Harris	8270C-SIM	4351
Fluoranthene	ND	ug/L	0.10	1.0	12/14/03	22:50	D. Harris	8270C-SIM	4351
Fluorene	ND	ug/L	0.10	1.0	12/14/03	22:50	D. Harris	8270C-SIM	4351
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	12/14/03	22:50	D. Harris	8270C-SIM	4351
2-Methylnaphthalene	ND	ug/L	0.10	1.0	12/14/03	22:50	D. Harris	8270C-SIM	4351
Naphthalene	ND	ug/L	0.10	1.0	12/14/03	22:50	D. Harris	8270C-SIM	4351
Phenanthrene	ND	ug/L	0.10	1.0	12/14/03	22:50	D. Harris	8270C-SIM	4351
Pyrene	ND	ug/L	0.10	1.0	12/14/03	22:50	D. Harris	8270C-SIM	4351
1-Methylnaphthalene	ND	ug/L	0.10	1.0	12/14/03	22:50	D. Harris	8270C-SIM	4351

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A193305
Sample ID: CEF-46-12I
Project: 04-41001/3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/L	0.100	1.0	12/12/03	15:28	S. Overton	300	3043
Nitrite-N as N	ND	mg/L	0.30	3.0	12/12/03	15:28	S. Overton	300	3043
Ortho Phosphate as P	ND	mg/L	0.100	1.0	12/12/03	14:06	T. Beverly	365.2	2833

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	12/13/03		K. Turner	3510C
Fla Pro	1000 ml	2.0 ml	12/13/03		M. Ricke	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	155. #	82. - 142.
TPH Surr, C-35	115.	42. - 193.
BTEX/GRO Surr., a,a,a-TFT	89.	69. - 129.
BNA Surr-Nitrobenzene-d5	77.	34. - 107.
BNA Surr-2-Fluorobiphenyl	54.	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.

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ANALYTICAL REPORT

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

Project: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Sampler: K.BAER/L.WOLSKI

Lab Number: 03-A193306
Sample ID: CEF-46-1S
Sample Type: Water
Site ID:

Date Collected: 12/11/03
Time Collected: 11:30
Date Received: 12/12/03
Time Received: 8:05
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	430.	ug/L	20.0	20.0	12/15/03	15:04	I. Ahmed	8021B	6634
Ethylbenzene	982.	ug/L	20.0	20.0	12/15/03	15:04	I. Ahmed	8021B	6634
Toluene	1410	ug/L	20.0	20.0	12/15/03	15:04	I. Ahmed	8021B	6634
Xylenes (Total)	3540	ug/L	60.0	20.0	12/15/03	15:04	I. Ahmed	8021B	6634
Methyl-t-butylether	432.	ug/L	20.0	20.0	12/15/03	15:04	I. Ahmed	8021B	6634
TRPH	39600	ug/L	4000	20.0	12/16/03	10:50	L. Watson	FPRO	5501
EXTRACTABLE ORGANICS									
Acenaphthene	0.26	ug/L	0.10	1.0	12/14/03	23:24	D. Harris	8270C-SIM	4351
Acenaphthylene	ND	ug/L	0.10	1.0	12/14/03	23:24	D. Harris	8270C-SIM	4351
Anthracene	ND	ug/L	0.10	1.0	12/14/03	23:24	D. Harris	8270C-SIM	4351
Benzo(a)anthracene	ND	ug/L	0.10	1.0	12/14/03	23:24	D. Harris	8270C-SIM	4351
Benzo(a)pyrene	ND	ug/L	0.10	1.0	12/14/03	23:24	D. Harris	8270C-SIM	4351
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	12/14/03	23:24	D. Harris	8270C-SIM	4351
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	12/14/03	23:24	D. Harris	8270C-SIM	4351
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	12/14/03	23:24	D. Harris	8270C-SIM	4351
Chrysene	ND	ug/L	0.10	1.0	12/14/03	23:24	D. Harris	8270C-SIM	4351
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	12/14/03	23:24	D. Harris	8270C-SIM	4351
Fluoranthene	ND	ug/L	0.10	1.0	12/14/03	23:24	D. Harris	8270C-SIM	4351
Fluorene	ND	ug/L	0.10	1.0	12/14/03	23:24	D. Harris	8270C-SIM	4351
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	12/14/03	23:24	D. Harris	8270C-SIM	4351
2-Methylnaphthalene	117.	ug/L	10.0	100.	12/15/03	8:14	D. Harris	8270C-SIM	4351
Naphthalene	501.	ug/L	10.0	100.	12/15/03	8:14	D. Harris	8270C-SIM	4351
Phenanthrene	ND	ug/L	0.10	1.0	12/14/03	23:24	D. Harris	8270C-SIM	4351
Pyrene	ND	ug/L	0.10	1.0	12/14/03	23:24	D. Harris	8270C-SIM	4351
1-Methylnaphthalene	89.0	ug/L	10.0	100.	12/15/03	8:14	D. Harris	8270C-SIM	4351

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A193306
Sample ID: CEF-46-1S
Project: 04-41001/3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/L	0.100	1.0	12/12/03	15:28	S. Overton	300	3043
Nitrite-N as N	ND	mg/L	0.30	3.0	12/12/03	15:28	S. Overton	300	3043
Ortho Phosphate as P	ND	mg/L	0.100	1.0	12/12/03	14:06	T. Beverly	365.2	2833

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	12/13/03		K. Turner	3510C
Fla Pro	1000 ml	2.0 ml	12/13/03		M. Ricke	FDEP

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	102.	69. - 129.
BNA Surr-Nitrobenzene-d5	94.	34. - 107.
BNA Surr-2-Fluorobiphenyl	45.	40. - 96.
BNA Surr-Terphenyl-d14	36.	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.
trph- The surrogate recovery was diluted out due to sample matrix.

End of Sample Report.

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ANALYTICAL REPORT

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

Project: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Sampler: K.BAER/L.WOLSKI

Lab Number: 03-A193307
Sample ID: CEF-46-13I
Sample Type: Water
Site ID:

Date Collected: 12/11/03
Time Collected: 8:48
Date Received: 12/12/03
Time Received: 8:05
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	12/14/03	20:17	I. Ahmed	8021B	3704
Ethylbenzene	ND	ug/L	1.0	1.0	12/14/03	20:17	I. Ahmed	8021B	3704
Toluene	ND	ug/L	1.0	1.0	12/14/03	20:17	I. Ahmed	8021B	3704
Xylenes (Total)	ND	ug/L	3.0	1.0	12/14/03	20:17	I. Ahmed	8021B	3704
Methyl-t-butylether	114.	ug/L	1.0	1.0	12/14/03	20:17	I. Ahmed	8021B	3704
TRPH	208.	ug/L	200.	1.0	12/15/03	21:02	L. Watson	FPRO	5501
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	12/14/03	23:58	D. Harris	8270C-SIM	4351
Acenaphthylene	ND	ug/L	0.10	1.0	12/14/03	23:58	D. Harris	8270C-SIM	4351
Anthracene	ND	ug/L	0.10	1.0	12/14/03	23:58	D. Harris	8270C-SIM	4351
Benzo(a)anthracene	ND	ug/L	0.10	1.0	12/14/03	23:58	D. Harris	8270C-SIM	4351
Benzo(a)pyrene	ND	ug/L	0.10	1.0	12/14/03	23:58	D. Harris	8270C-SIM	4351
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	12/14/03	23:58	D. Harris	8270C-SIM	4351
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	12/14/03	23:58	D. Harris	8270C-SIM	4351
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	12/14/03	23:58	D. Harris	8270C-SIM	4351
Chrysene	ND	ug/L	0.10	1.0	12/14/03	23:58	D. Harris	8270C-SIM	4351
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	12/14/03	23:58	D. Harris	8270C-SIM	4351
Fluoranthene	ND	ug/L	0.10	1.0	12/14/03	23:58	D. Harris	8270C-SIM	4351
Fluorene	ND	ug/L	0.10	1.0	12/14/03	23:58	D. Harris	8270C-SIM	4351
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	12/14/03	23:58	D. Harris	8270C-SIM	4351
2-Methylnaphthalene	ND	ug/L	0.10	1.0	12/14/03	23:58	D. Harris	8270C-SIM	4351
Naphthalene	0.50	ug/L	0.10	1.0	12/14/03	23:58	D. Harris	8270C-SIM	4351
Phenanthrene	ND	ug/L	0.10	1.0	12/14/03	23:58	D. Harris	8270C-SIM	4351
Pyrene	ND	ug/L	0.10	1.0	12/14/03	23:58	D. Harris	8270C-SIM	4351
1-Methylnaphthalene	ND	ug/L	0.10	1.0	12/14/03	23:58	D. Harris	8270C-SIM	4351

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A193307
Sample ID: CEF-46-13I
Project: 04-41001/3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/L	0.100	1.0	12/12/03	15:28	S. Overton	300	3043
Nitrite-N as N	ND	mg/L	0.60	6.0	12/12/03	15:28	S. Overton	300	3043
Ortho Phosphate as P	ND	mg/L	0.100	1.0	12/12/03	14:06	T. Beverly	365.2	2833

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	12/13/03		K. Turner	3510C
Fla Pro	1000 ml	2.0 ml	12/13/03		M. Ricke	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	148. #	82. - 142.
TPH Surr, C-35	111.	42. - 193.
BTEX/GRO Surr., a,a,a-TFT	86.	69. - 129.
BNA Surr-Nitrobenzene-d5	50.	34. - 107.
BNA Surr-2-Fluorobiphenyl	56.	40. - 96.
BNA Surr-Terphenyl-d14	61.	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: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Sampler: K.BAER/L.WOLSKI

Lab Number: 03-A193308
Sample ID: CEF-46-21I
Sample Type: Water
Site ID:

Date Collected: 12/11/03
Time Collected: 10:39
Date Received: 12/12/03
Time Received: 8:05
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	12/14/03	20:48	I. Ahmed	8021B	3704
Ethylbenzene	ND	ug/L	1.0	1.0	12/14/03	20:48	I. Ahmed	8021B	3704
Toluene	ND	ug/L	1.0	1.0	12/14/03	20:48	I. Ahmed	8021B	3704
Xylenes (Total)	ND	ug/L	3.0	1.0	12/14/03	20:48	I. Ahmed	8021B	3704
Methyl-t-butylether	ND	ug/L	1.0	1.0	12/14/03	20:48	I. Ahmed	8021B	3704
TRPH	ND	ug/L	200.	1.0	12/15/03	21:22	L. Watson	FPRO	5501
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	12/15/03	0:31	D. Harris	8270C-SIM	4351
Acenaphthylene	ND	ug/L	0.10	1.0	12/15/03	0:31	D. Harris	8270C-SIM	4351
Anthracene	ND	ug/L	0.10	1.0	12/15/03	0:31	D. Harris	8270C-SIM	4351
Benzo(a)anthracene	ND	ug/L	0.10	1.0	12/15/03	0:31	D. Harris	8270C-SIM	4351
Benzo(a)pyrene	ND	ug/L	0.10	1.0	12/15/03	0:31	D. Harris	8270C-SIM	4351
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	12/15/03	0:31	D. Harris	8270C-SIM	4351
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	12/15/03	0:31	D. Harris	8270C-SIM	4351
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	12/15/03	0:31	D. Harris	8270C-SIM	4351
Chrysene	ND	ug/L	0.10	1.0	12/15/03	0:31	D. Harris	8270C-SIM	4351
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	12/15/03	0:31	D. Harris	8270C-SIM	4351
Fluoranthene	ND	ug/L	0.10	1.0	12/15/03	0:31	D. Harris	8270C-SIM	4351
Fluorene	ND	ug/L	0.10	1.0	12/15/03	0:31	D. Harris	8270C-SIM	4351
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	12/15/03	0:31	D. Harris	8270C-SIM	4351
2-Methylnaphthalene	ND	ug/L	0.10	1.0	12/15/03	0:31	D. Harris	8270C-SIM	4351
Naphthalene	ND	ug/L	0.10	1.0	12/15/03	0:31	D. Harris	8270C-SIM	4351
Phenanthrene	ND	ug/L	0.10	1.0	12/15/03	0:31	D. Harris	8270C-SIM	4351
Pyrene	ND	ug/L	0.10	1.0	12/15/03	0:31	D. Harris	8270C-SIM	4351
1-Methylnaphthalene	ND	ug/L	0.10	1.0	12/15/03	0:31	D. Harris	8270C-SIM	4351

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A193308
Sample ID: CEF-46-21I
Project: 04-41001/3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/L	0.100	1.0	12/12/03	15:28	S. Overton	300	3043
Nitrite-N as N	ND	mg/L	0.10	1.0	12/12/03	15:28	S. Overton	300	3043
Ortho Phosphate as P	ND	mg/L	0.100	1.0	12/12/03	14:06	T. Beverly	365.2	2833

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	12/13/03		K. Turner	3510C
Fla Pro	1000 ml	2.0 ml	12/13/03		M. Ricke	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	183. #	82. - 142.
TPH Surr, C-35	137.	42. - 193.
BTEX/GRO Surr., a,a,a-TFT	87.	69. - 129.
BNA Surr-Nitrobenzene-d5	80.	34. - 107.
BNA Surr-2-Fluorobiphenyl	59.	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.

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ANALYTICAL REPORT

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

Project: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Sampler: K.BAER/L.WOLSKI

Lab Number: 03-A193309
Sample ID: CEF-46-26I
Sample Type: Water
Site ID:

Date Collected: 12/11/03
Time Collected: 10:06
Date Received: 12/12/03
Time Received: 8:05
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	693.	ug/L	5.00	5.0	12/15/03	16:07	I. Ahmed	8021B	6634
Ethylbenzene	16.5	ug/L	1.0	1.0	12/14/03	21:19	I. Ahmed	8021B	3704
Toluene	7.9	ug/L	1.0	1.0	12/14/03	21:19	I. Ahmed	8021B	3704
Xylenes (Total)	198.	ug/L	3.0	1.0	12/14/03	21:19	I. Ahmed	8021B	3704
Methyl-t-butylether	19.4	ug/L	1.0	1.0	12/14/03	21:19	I. Ahmed	8021B	3704
TRPH	954.	ug/L	200.	1.0	12/15/03	21:42	L. Watson	FPRO	5501
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	12/15/03	1:05	D. Harris	8270C-SIM	4351
Acenaphthylene	ND	ug/L	0.10	1.0	12/15/03	1:05	D. Harris	8270C-SIM	4351
Anthracene	ND	ug/L	0.10	1.0	12/15/03	1:05	D. Harris	8270C-SIM	4351
Benzo(a)anthracene	ND	ug/L	0.10	1.0	12/15/03	1:05	D. Harris	8270C-SIM	4351
Benzo(a)pyrene	ND	ug/L	0.10	1.0	12/15/03	1:05	D. Harris	8270C-SIM	4351
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	12/15/03	1:05	D. Harris	8270C-SIM	4351
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	12/15/03	1:05	D. Harris	8270C-SIM	4351
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	12/15/03	1:05	D. Harris	8270C-SIM	4351
Chrysene	ND	ug/L	0.10	1.0	12/15/03	1:05	D. Harris	8270C-SIM	4351
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	12/15/03	1:05	D. Harris	8270C-SIM	4351
Fluoranthene	ND	ug/L	0.10	1.0	12/15/03	1:05	D. Harris	8270C-SIM	4351
Fluorene	ND	ug/L	0.10	1.0	12/15/03	1:05	D. Harris	8270C-SIM	4351
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	12/15/03	1:05	D. Harris	8270C-SIM	4351
2-Methylnaphthalene	ND	ug/L	0.10	1.0	12/15/03	1:05	D. Harris	8270C-SIM	4351
Naphthalene	ND	ug/L	0.10	1.0	12/15/03	1:05	D. Harris	8270C-SIM	4351
Phenanthrene	ND	ug/L	0.10	1.0	12/15/03	1:05	D. Harris	8270C-SIM	4351
Pyrene	ND	ug/L	0.10	1.0	12/15/03	1:05	D. Harris	8270C-SIM	4351
1-Methylnaphthalene	ND	ug/L	0.10	1.0	12/15/03	1:05	D. Harris	8270C-SIM	4351

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A193309
Sample ID: CEF-46-26I
Project: 04-41001/3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/L	0.100	1.0	12/12/03	15:28	S. Overton	300	3043
Nitrite-N as N	ND	mg/L	0.30	3.0	12/12/03	15:28	S. Overton	300	3043
Ortho Phosphate as P	ND	mg/L	0.100	1.0	12/12/03	14:06	T. Beverly	365.2	2833

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	12/13/03		K. Turner	3510C
Fla Pro	1000 ml	2.0 ml	12/13/03		M. Ricke	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	176. #	82. - 142.
TPH Surr, C-35	112.	42. - 193.
BTEX/GRO Surr., a,a,a-TFT	92.	69. - 129.
BNA Surr-Nitrobenzene-d5	90.	34. - 107.
BNA Surr-2-Fluorobiphenyl	64.	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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ANALYTICAL REPORT

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

Project: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Sampler: K.BAER/L.WOLSKI

Lab Number: 03-A193310
Sample ID: EB-BLDG46
Sample Type: Water
Site ID:

Date Collected: 12/11/03
Time Collected: 12:26
Date Received: 12/12/03
Time Received: 8:05
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	12/14/03	21:50	I. Ahmed	8021B	3704
Ethylbenzene	ND	ug/L	1.0	1.0	12/14/03	21:50	I. Ahmed	8021B	3704
Toluene	ND	ug/L	1.0	1.0	12/14/03	21:50	I. Ahmed	8021B	3704
Xylenes (Total)	ND	ug/L	3.0	1.0	12/14/03	21:50	I. Ahmed	8021B	3704
Methyl-t-butylether	ND	ug/L	1.0	1.0	12/14/03	21:50	I. Ahmed	8021B	3704
TRPH	ND	ug/L	200.	1.0	12/15/03	22:01	L. Watson	FPRO	5501
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	12/15/03	1:39	D. Harris	8270C-SIM	4351
Acenaphthylene	ND	ug/L	0.10	1.0	12/15/03	1:39	D. Harris	8270C-SIM	4351
Anthracene	ND	ug/L	0.10	1.0	12/15/03	1:39	D. Harris	8270C-SIM	4351
Benzo(a)anthracene	ND	ug/L	0.10	1.0	12/15/03	1:39	D. Harris	8270C-SIM	4351
Benzo(a)pyrene	ND	ug/L	0.10	1.0	12/15/03	1:39	D. Harris	8270C-SIM	4351
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	12/15/03	1:39	D. Harris	8270C-SIM	4351
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	12/15/03	1:39	D. Harris	8270C-SIM	4351
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	12/15/03	1:39	D. Harris	8270C-SIM	4351
Chrysene	ND	ug/L	0.10	1.0	12/15/03	1:39	D. Harris	8270C-SIM	4351
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	12/15/03	1:39	D. Harris	8270C-SIM	4351
Fluoranthene	ND	ug/L	0.10	1.0	12/15/03	1:39	D. Harris	8270C-SIM	4351
Fluorene	ND	ug/L	0.10	1.0	12/15/03	1:39	D. Harris	8270C-SIM	4351
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	12/15/03	1:39	D. Harris	8270C-SIM	4351
2-Methylnaphthalene	ND	ug/L	0.10	1.0	12/15/03	1:39	D. Harris	8270C-SIM	4351
Naphthalene	0.35	ug/L	0.10	1.0	12/15/03	1:39	D. Harris	8270C-SIM	4351
Phenanthrene	ND	ug/L	0.10	1.0	12/15/03	1:39	D. Harris	8270C-SIM	4351
Pyrene	ND	ug/L	0.10	1.0	12/15/03	1:39	D. Harris	8270C-SIM	4351
1-Methylnaphthalene	ND	ug/L	0.10	1.0	12/15/03	1:39	D. Harris	8270C-SIM	4351

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A193310
Sample ID: EB-BLDG46
Project: 04-41001/3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/L	0.100	1.0	12/12/03	15:28	S. Overton	300	3043
Nitrite-N as N	ND	mg/L	0.10	1.0	12/12/03	15:28	S. Overton	300	3043
Ortho Phosphate as P	ND	mg/L	0.100	1.0	12/12/03	14:06	T. Beverly	365.2	2833

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	12/13/03		K. Turner	3510C
Fla Pro	1000 ml	2.0 ml	12/13/03		M. Ricke	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	139.	82. - 142.
TPH Surr, C-35	114.	42. - 193.
BTEX/GRO Surr., a,a,a-TFT	89.	69. - 129.
BNA Surr-Nitrobenzene-d5	81.	34. - 107.
BNA Surr-2-Fluorobiphenyl	60.	40. - 96.
BNA Surr-Terphenyl-d14	62.	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: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Sampler: K.BAER/L.WOLSKI

Lab Number: 03-A193311
Sample ID: Trip Blank
Sample Type: Water
Site ID:

Date Collected: 12/11/03
Time Collected:
Date Received: 12/12/03
Time Received: 8:05
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	12/14/03	14:57	A. Cobbs	8021B	3705
Ethylbenzene	ND	ug/L	1.0	1.0	12/14/03	14:57	A. Cobbs	8021B	3705
Toluene	ND	ug/L	1.0	1.0	12/14/03	14:57	A. Cobbs	8021B	3705
Xylenes (Total)	ND	ug/L	3.0	1.0	12/14/03	14:57	A. Cobbs	8021B	3705
Methyl-t-butylether	ND	ug/L	1.0	1.0	12/14/03	14:57	A. Cobbs	8021B	3705

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	98.	69. - 129.

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: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 1
Laboratory Receipt Date: 12/12/03

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
UST ANALYSIS								
Benzene	mg/kg	0.0149	0.0299	0.0500	30#	42. - 150.	4969	03-A192898
Toluene	mg/kg	0.0463	0.0622	0.0500	32#	34. - 149.	4969	03-A192898
Ethylbenzene	mg/kg	0.144	0.139	0.0500	-10#	31. - 154.	4969	03-A192898
MTBE	mg/kg	< 0.005	0.017	0.050	34#	36. - 151.	4969	03-A192898
TRPH	mg/kg	< 5.00	21.8	17.0	128	62. - 163.	557	blank
Benzene	mg/l	< 0.00100	0.0491	0.0500	98	60. - 143.	3704	03-A193310
Benzene	mg/l	< 0.00100	0.0510	0.0500	102	60. - 143.	3705	03-A193568
Toluene	mg/l	< 0.0010	0.0479	0.0500	96	62. - 139.	3704	03-A193310
Toluene	mg/l	< 0.0010	0.0504	0.0500	101	62. - 139.	3705	03-A193568
Ethylbenzene	mg/l	< 0.0010	0.0461	0.0500	92	61. - 138.	3704	03-A193310
Ethylbenzene	mg/l	< 0.0010	0.0487	0.0500	97	61. - 138.	3705	03-A193568
Xylenes (Total)	mg/l	< 0.0030	0.0934	0.100	93	59. - 137.	3704	03-A193310
Xylenes (Total)	mg/l	< 0.0030	0.0959	0.100	96	59. - 137.	3705	03-A193568
Methyl-t-butylether	mg/l	< 0.0010	0.0588	0.0500	118	60. - 138.	3704	03-A193310
Methyl-t-butylether	mg/l	< 0.0010	0.0423	0.0500	85	60. - 138.	3705	03-A193568
TRPH	mg/l	< 0.100	0.560	0.430	130#	44. - 101.	5501	blank
BTEX/GRO Surr., a,a,a-TFT	% Recovery				93	69 - 129	3704	
BTEX/GRO Surr., a,a,a-TFT	% Recovery				87	69 - 129	3705	
EXTRACTABLE PARAMETERS								
Acenaphthene	mg/l	< 0.00010	0.00065	0.00100	65	28 - 106	4351	Blank
Pyrene	mg/l	< 0.00010	0.00086	0.00100	86	35 - 118	4351	Blank
BNA Surr-Nitrobenzene-d5	% Rec				74	34 - 107	4351	
BNA Surr-Nitrobenzene-d5	% Rec				67	44 - 99	5470	
BNA Surr-2-Fluorobiphenyl	% Rec				51	40 - 96	4351	
BNA Surr-2-Fluorobiphenyl	% Rec				53	45 - 94	5470	
BNA Surr-Terphenyl-d14	% Rec				66	26 - 106	4351	

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 2
Laboratory Receipt Date: 12/12/03

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
BNA Surr-Terphenyl-d14	% Rec				58	53 - 104	5470	
MISC PARAMETERS								
Nitrate-N as N	mg/l	< 0.100	3.01	3.00	100	80 - 120	3043	03-A193302
Nitrite-N as N	mg/l	< 0.30	8.31	9.00	92	80 - 120	3043	03-A193302
Ortho Phosphate as P	mg/l	< 0.100	0.273	0.250	109	80 - 120	2833	03-A193310

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
Benzene	mg/kg	0.0299	0.0436	37.28#	30.	4969
Toluene	mg/kg	0.0622	0.0560	10.49	35.	4969
Ethylbenzene	mg/kg	0.139	0.124	11.41	37.	4969
MTBE	mg/kg	0.017	0.016	6.06	46.	4969
TRPH	mg/kg	21.8	16.9	25.32#	25.	557
Benzene	mg/l	0.0491	0.0507	3.21	23.	3704
Benzene	mg/l	0.0510	0.0510	0.00	23.	3705
Toluene	mg/l	0.0479	0.0510	6.27	24.	3704
Toluene	mg/l	0.0504	0.0497	1.40	24.	3705
Ethylbenzene	mg/l	0.0461	0.0503	8.71	24.	3704
Ethylbenzene	mg/l	0.0487	0.0478	1.87	24.	3705
Xylenes (Total)	mg/l	0.0934	0.102	8.80	25.	3704
Xylenes (Total)	mg/l	0.0959	0.0928	3.29	25.	3705
Methyl-t-butylether	mg/l	0.0588	0.0607	3.18	24.	3704
Methyl-t-butylether	mg/l	0.0423	0.0425	0.47	24.	3705
TRPH	mg/l	0.560	0.445	22.89	41.	5501

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 3
Laboratory Receipt Date: 12/12/03

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
BTEX/GRO Surr., a,a,a-TFT	% Recovery		94.			3704
BTEX/GRO Surr., a,a,a-TFT	% Recovery		88.			3705
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00065	0.00071	8.82	33.	4351
Pyrene	mg/l	0.00086	0.00084	2.35	32.	4351
BNA Surr-Nitrobenzene-d5	% Rec		82.			4351
BNA Surr-Nitrobenzene-d5	% Rec		74.			5470
BNA Surr-2-Fluorobiphenyl	% Rec		58.			4351
BNA Surr-2-Fluorobiphenyl	% Rec		57.			5470
BNA Surr-Terphenyl-d14	% Rec		64.			4351
BNA Surr-Terphenyl-d14	% Rec		61.			5470
Nitrate-N as N	mg/l	3.01	3.02	0.33	20	3043
Nitrite-N as N	mg/l	8.31	8.31	0.00	20	3043
Ortho Phosphate as P	mg/l	0.273	0.273	0.00	20	2833

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Benzene	mg/kg	0.100	0.0994	99	71 - 132	4969
Benzene	mg/kg	0.100	0.0941	94	71 - 132	4983
Toluene	mg/kg	0.100	0.110	110	68 - 129	4969
Toluene	mg/kg	0.100	0.0920	92	68 - 129	4983
Ethylbenzene	mg/kg	0.100	0.0965	96	71 - 131	4969
Ethylbenzene	mg/kg	0.100	0.0828	83	71 - 131	4983
Xylenes, total	mg/kg	0.200	0.162	81	66 - 131	4983
Xylenes, total	mg/kg	0.200	0.162	81	66 - 131	6098

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 4
Laboratory Receipt Date: 12/12/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
MTBE	mg/kg	0.100	0.090	90	56 - 140	4969
MTBE	mg/kg	0.100	0.078	78	56 - 140	4983
TRPH	mg/kg	17.0	19.1	112	63 - 153	557
Benzene	mg/l	0.100	0.0990	99	74 - 120	3704
Benzene	mg/l	0.100	0.0867	87	74 - 120	3705
Benzene	mg/l	0.100	0.0859	86	74 - 120	6634
Toluene	mg/l	0.100	0.0916	92	73 - 118	3704
Toluene	mg/l	0.100	0.0845	84	73 - 118	3705
Toluene	mg/l	0.100	0.0865	86	73 - 118	6634
Ethylbenzene	mg/l	0.100	0.0899	90	72 - 118	3704
Ethylbenzene	mg/l	0.100	0.0810	81	72 - 118	3705
Ethylbenzene	mg/l	0.100	0.0869	87	72 - 118	6634
Xylenes (Total)	mg/l	0.200	0.181	90	72 - 116	3704
Xylenes (Total)	mg/l	0.200	0.156	78	72 - 116	3705
Xylenes (Total)	mg/l	0.200	0.180	90	72 - 116	6634
Methyl-t-butylether	mg/l	0.100	0.108	108	64 - 124	3704
Methyl-t-butylether	mg/l	0.100	0.0746	75	64 - 124	3705
Methyl-t-butylether	mg/l	0.100	0.100	100	64 - 124	6634
Methyl-t-butylether	mg/l	0.100	0.100	100	64 - 124	6645
TRPH	mg/l	0.430	0.491	114	55 - 118	5501
BTEX/GRO Surr., a,a,a-TFT	% Recovery			98	69 - 129	3704
BTEX/GRO Surr., a,a,a-TFT	% Recovery			86	69 - 129	3705
BTEX/GRO Surr., a,a,a-TFT	% Recovery			87	69 - 129	6634
BTEX/GRO Surr., a,a,a-TFT	% Recovery			87	69 - 129	6645
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00100	0.00056	56	28 - 106	4351
Acenaphthene	mg/kg	0.0330	0.0198	60	26 - 106	5470
Acenaphthylene	mg/l	0.00100	0.00071	71	26 - 106	4351
Acenaphthylene	mg/kg	0.0330	0.0221	67	23 - 113	5470
Anthracene	mg/l	0.00100	0.00079	79	30 - 116	4351
Anthracene	mg/kg	0.0330	0.0218	66	33 - 108	5470

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 5
Laboratory Receipt Date: 12/12/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Benzo(a)anthracene	mg/l	0.00100	0.00097	97	38 - 128	4351
Benzo(a)anthracene	mg/kg	0.0330	0.0231	70	47 - 119	5470
Benzo(a)pyrene	mg/l	0.00100	0.00095	95	34 - 117	4351
Benzo(a)pyrene	mg/kg	0.0330	0.0238	72	37 - 106	5470
Benzo(b)fluoranthene	mg/l	0.00100	0.00090	90	37 - 132	4351
Benzo(b)fluoranthene	mg/kg	0.0330	0.0271	82	43 - 121	5470
Benzo(g,h,i)perylene	mg/l	0.00100	0.00069	69	28 - 122	4351
Benzo(g,h,i)perylene	mg/kg	0.0330	0.0224	68	23 - 124	5470
Benzo(k)fluoranthene	mg/l	0.00100	0.00078	78	35 - 128	4351
Benzo(k)fluoranthene	mg/kg	0.0330	0.0241	73	40 - 112	5470
Chrysene	mg/l	0.00100	0.00061	61	42 - 126	4351
Chrysene	mg/kg	0.0330	0.0165	50	48 - 117	5470
Dibenz(a,h)anthracene	mg/l	0.00100	0.00067	67	35 - 124	4351
Dibenz(a,h)anthracene	mg/kg	0.0330	0.0221	67	30 - 129	5470
Fluoranthene	mg/l	0.00100	0.00083	83	35 - 125	4351
Fluoranthene	mg/kg	0.0330	0.0238	72	40 - 119	5470
Fluorene	mg/l	0.00100	0.00066	66	30 - 112	4351
Fluorene	mg/kg	0.0330	0.0221	67	29 - 112	5470
Indeno(1,2,3-cd)pyrene	mg/l	0.00100	0.00076	76	34 - 121	4351
Indeno(1,2,3-cd)pyrene	mg/kg	0.0330	0.0238	72	30 - 125	5470
2-Methylnaphthalene	mg/l	0.00100	0.00052	52	31 - 108	4351
2-Methylnaphthalene	mg/kg	0.0330	0.0185	56	31 - 115	5470
Naphthalene	mg/l	0.00100	0.00053	53	9 - 120	4351
Naphthalene	mg/kg	0.0330	0.0188	57	23 - 105	5470
Phenanthrene	mg/l	0.00100	0.00063	63	34 - 116	4351
Phenanthrene	mg/kg	0.0330	0.0211	64	36 - 107	5470
Pyrene	mg/l	0.00100	0.00079	79	35 - 118	4351
Pyrene	mg/kg	0.0330	0.0221	67	38 - 113	5470
1-Methylnaphthalene	mg/l	0.00100	0.00054	54	31 - 112	4351
1-Methylnapthalene	mg/kg	0.0330	0.0188	57	35 - 113	5470

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
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BNA Surr-Nitrobenzene-d5	% Rec			68	34 - 107	4351
BNA Surr-Nitrobenzene-d5	% Rec			68	44 - 99	5470
BNA Surr-2-Fluorobiphenyl	% Rec			46	40 - 96	4351
BNA Surr-2-Fluorobiphenyl	% Rec			55	45 - 94	5470
BNA Surr-Terphenyl-d14	% Rec			61	26 - 106	4351
BNA Surr-Terphenyl-d14	% Rec			53	53 - 104	5470
MISC PARAMETERS						
Nitrate-N as N	mg/l	3.00	2.94	98	90 - 110	3043
Nitrite-N as N	mg/l	3.00	3.08	103	90 - 110	3043
Ortho Phosphate as P	mg/l	0.250	0.266	106	88 - 107	2833

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Nitrate-N as N	mg/l	< 0.100	< 0.100	N/A	15.	3043	03-A193310
Nitrite-N as N	mg/l	< 0.10	< 0.10	N/A	15.	3043	03-A193310

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
Benzene	< 0.0010	mg/kg	4969	12/14/03	11:47
Benzene	< 0.0010	mg/kg	4983	12/15/03	7:24
Toluene	< 0.0010	mg/kg	4969	12/14/03	11:47
Toluene	< 0.0010	mg/kg	4983	12/15/03	7:24
Ethylbenzene	< 0.0010	mg/kg	4969	12/14/03	11:47
Ethylbenzene	< 0.0010	mg/kg	4983	12/15/03	7:24
Xylenes, total	< 0.0010	mg/kg	4983	12/15/03	7:24

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
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Laboratory Receipt Date: 12/12/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Xylenes, total	< 0.0010	mg/kg	6098	12/15/03	7:24
MTBE	< 0.005	mg/kg	4969	12/14/03	11:47
MTBE	< 0.005	mg/kg	4983	12/15/03	7:24
TRPH	< 5.00	mg/kg	557	12/17/03	15:49
Benzene	< 0.00071	mg/l	3704	12/14/03	10:21
Benzene	< 0.00071	mg/l	3705	12/14/03	14:26
Benzene	< 0.00071	mg/l	6634	12/15/03	0:27
Toluene	< 0.0007	mg/l	3704	12/14/03	10:21
Toluene	< 0.0007	mg/l	3705	12/14/03	14:26
Toluene	< 0.0007	mg/l	6634	12/15/03	0:27
Ethylbenzene	< 0.0008	mg/l	3704	12/14/03	10:21
Ethylbenzene	< 0.0008	mg/l	3705	12/14/03	14:26
Ethylbenzene	< 0.0008	mg/l	6634	12/15/03	0:27
Xylenes (Total)	< 0.0018	mg/l	3704	12/14/03	10:21
Xylenes (Total)	< 0.0018	mg/l	3705	12/14/03	14:26
Xylenes (Total)	< 0.0018	mg/l	6634	12/15/03	0:27
Methyl-t-butylether	< 0.0008	mg/l	3704	12/14/03	10:21
Methyl-t-butylether	< 0.0008	mg/l	3705	12/14/03	14:26
Methyl-t-butylether	< 0.0008	mg/l	6634	12/15/03	0:27
Methyl-t-butylether	< 0.0008	mg/l	6645	12/15/03	0:27
TRPH	< 0.100	mg/l	5501	12/15/03	17:04
TPH Surr., O-Terphenyl	133.	% Recovery	5501	12/15/03	17:04
TPH Surr, C-35	56.	% Recovery	5501	12/15/03	17:04
UST surr-Trifluorotoluene	181.	% Recovery	4969	12/14/03	11:47
UST surr-Trifluorotoluene	134.	% Recovery	4983	12/15/03	7:24
BTEX/GRO Surr., a,a,a-TFT	93.	% Recovery	3704	12/14/03	10:21
BTEX/GRO Surr., a,a,a-TFT	98.	% Recovery	3705	12/14/03	14:26
BTEX/GRO Surr., a,a,a-TFT	91.	% Recovery	6634	12/15/03	0:27
BTEX/GRO Surr., a,a,a-TFT	91.	% Recovery	6645	12/15/03	0:27

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
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Page: 8
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EXTRACTABLE PARAMETERS

Acenaphthene	< 0.00010	mg/l	4351	12/14/03	17:16
Acenaphthene	< 0.00330	mg/kg	5470	12/16/03	4:28
Acenaphthylene	< 0.00010	mg/l	4351	12/14/03	17:16
Acenaphthylene	< 0.00330	mg/kg	5470	12/16/03	4:28
Anthracene	< 0.00010	mg/l	4351	12/14/03	17:16
Anthracene	< 0.00330	mg/kg	5470	12/16/03	4:28
Benzo(a)anthracene	< 0.00010	mg/l	4351	12/14/03	17:16
Benzo(a)anthracene	< 0.00330	mg/kg	5470	12/16/03	4:28
Benzo(a)pyrene	< 0.00010	mg/l	4351	12/14/03	17:16
Benzo(a)pyrene	< 0.00330	mg/kg	5470	12/16/03	4:28
Benzo(b)fluoranthene	< 0.00010	mg/l	4351	12/14/03	17:16
Benzo(b)fluoranthene	< 0.00330	mg/kg	5470	12/16/03	4:28
Benzo(g,h,i)perylene	< 0.00010	mg/l	4351	12/14/03	17:16
Benzo(g,h,i)perylene	< 0.00330	mg/kg	5470	12/16/03	4:28
Benzo(k)fluoranthene	< 0.00010	mg/l	4351	12/14/03	17:16
Benzo(k)fluoranthene	< 0.00330	mg/kg	5470	12/16/03	4:28
Chrysene	< 0.00010	mg/l	4351	12/14/03	17:16
Chrysene	< 0.00330	mg/kg	5470	12/16/03	4:28
Dibenz(a,h)anthracene	< 0.00010	mg/l	4351	12/14/03	17:16
Dibenz(a,h)anthracene	< 0.00330	mg/kg	5470	12/16/03	4:28
Fluoranthene	< 0.00010	mg/l	4351	12/14/03	17:16
Fluoranthene	< 0.00330	mg/kg	5470	12/16/03	4:28
Fluorene	< 0.00010	mg/l	4351	12/14/03	17:16
Fluorene	< 0.00330	mg/kg	5470	12/16/03	4:28
Indeno(1,2,3-cd)pyrene	< 0.00010	mg/l	4351	12/14/03	17:16
Indeno(1,2,3-cd)pyrene	< 0.00330	mg/kg	5470	12/16/03	4:28
2-Methylnaphthalene	< 0.00010	mg/l	4351	12/14/03	17:16
2-Methylnaphthalene	< 0.00330	mg/kg	5470	12/16/03	4:28
Naphthalene	< 0.00010	mg/l	4351	12/14/03	17:16
Naphthalene	< 0.00330	mg/kg	5470	12/16/03	4:28
Phenanthrene	< 0.00010	mg/l	4351	12/14/03	17:16
Phenanthrene	< 0.00330	mg/kg	5470	12/16/03	4:28
Pyrene	< 0.00010	mg/l	4351	12/14/03	17:16
Pyrene	< 0.00330	mg/kg	5470	12/16/03	4:28
1-Methylnaphthalene	< 0.00010	mg/l	4351	12/14/03	17:16

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 9
Laboratory Receipt Date: 12/12/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1-Methylnapthalene	< 0.00330	mg/kg	5470	12/16/03	4:28
BNA Surr-Nitrobenzene-d5	79.	% Rec	4351	12/14/03	17:16
BNA Surr-Nitrobenzene-d5	77.	% Rec	5470	12/16/03	4:28
BNA Surr-2-Fluorobiphenyl	51.	% Rec	4351	12/14/03	17:16
BNA Surr-2-Fluorobiphenyl	64.	% Rec	5470	12/16/03	4:28
BNA Surr-Terphenyl-d14	61.	% Rec	4351	12/14/03	17:16
BNA Surr-Terphenyl-d14	65.	% Rec	5470	12/16/03	4:28
MISC PARAMETERS					
Nitrate-N as N	< 0.100	mg/l	3043	12/12/03	15:28
Nitrite-N as N	< 0.10	mg/l	3043	12/12/03	15:28
Ortho Phosphate as P	< 0.100	mg/l	2833	12/12/03	14:06

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 357518

TestAmerica
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Nashville Division

COOLER RECEIPT FORM BC# 357277

Client: Terrane, Inc.

Cooler Received On: 12/11/03 And Opened On: 12/11/03 By: Shawn Gracey

(Signature)

1. Temperature of Cooler when opened 1.6 Degrees Celsius
2. Were custody seals on outside of cooler?.....YES...NO...NA
   a. If yes, how many, what kind and where:_____
3. Were custody seals on containers and intact?.....NO...YES...NA
4. Were the seals intact, signed, and dated correctly?.....YES...NO...NA
5. Were custody papers inside cooler?.....YES...NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....YES...NO...NA
7. Did you sign the custody papers in the appropriate place?.....YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Cooling process: Ice Ice pack Ice(direct contact) Dry ice Other None
10. Did all containers arrive in good condition(unbroken)?.....YES...NO...NA
11. Were all container labels complete (#,date,signed,pres,etc)?.....YES...NO...NA
12. Did all container labels and tags agree with custody papers?.....YES...NO...NA
13. Were correct containers used for the analysis requested?.....YES...NO...NA
14. a. Were VOA vials received?.....YES...NO...NA
    b. Was there any observable head space present in any VOA vial?.....NO...YES...NA
15. Was sufficient amount of sample sent in each container?.....YES...NO...NA
16. Were correct preservatives used?.....YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?.....NO...YES...NA
18. See attached for resolution of non-conformance:

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

End of Form

357277

TestAmerica ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

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

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
Address: 21622 NW 97th Ave
City/State/Zip Code: Miami FL 33172
Project Manager: James Young
Telephone Number: 305-513-4901 Fax: 305-513-4902
Sampler Name: (Print Name) Karen Baer / Larry Wolski
Sampler Signature: [signature]

Project Name: NAS Cecil Field
Project #: 04-41001/3
Site/Location ID: Building 46 State: FL
Report To: James Young
Invoice To: James Young
Quote #: 0923021 0902 PO#: 04-41001/3

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)	HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	BTEX/MTBE 8021B	PAH 8270	TRPH FLPRO	Nitrate	Nitrite	Ortho phosphate					REMARKS
CEF-46-6D	12/10/03	1517			GW		5				3		X	X	X	X	X	X					192286
CEF-46-14D	12/10/03	1243			GW		5				3		X	X	X	X	X	X					7
CEF-46-24D	12/10/03	1355			GW		5				3		X	X	X	X	X	X					8
CEF-46-9I	12/10/03	1417			GW		5				3		X	X	X	X	X	X					9
CEF-46-25I	12/10/03	1537			GW		5				3		X	X	X	X	X	X					90
CEF-46-15I	12/10/03	1259			GW		5				3		X	X	X	X	X	X					192291
trip Blank	12/10/03	–			DI																		192292

Special Instructions:
48 hold – report nitrate/nitrite separately

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	12/10/03	12:50			
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: [signature]	12/11/03	0800

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp: 1.6
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:	Kbundy	**Phone:**		NC Closed	☑
Client Name:	TERRAINE, INC.	**Sample Range:**	[redacted]	Date Closed	12/15/2003
Client Contact:	Jim Young	**SDG:**	[redacted]		
Client Account:	9463	**Analyst:**			
Date Created:	12/15/2003	**Supervisor:**	Mark Hollingsworth		
NC #:	03-a192343	**NC Type:**			
Project Name:	NAS Cecil Field	**Terminal Manager:**			
Project Number:	04-41001/2				
Project Origin	FL				
Regulatory :	Yes				

Process: Analysis not able to be performed: See Comment Section

Action: Corrected action not chosen

Corrected By: Kenny Bundy

Closed: ☑ Kbundy

Comments:

Comment added by: Kbundy on 12/15/2003 12:20:07 PM
NC closed with out comments

****

Comment added by: Kbundy on 12/15/2003 12:19:29 PM
Per Jim Young it is ok to report the Colormetric method so that we were able to keep the hold time requirements.

****

The following clients' samples were analyzed by a different method on Friday because the IC instrument went down and the holding time had to be preserved. All were analyzed within the method holding time but they were not run on the IC as originally requested. Please complete an NC documenting what the client would like for us to do (report or not?). We apologize for the late notice here, but decisions had to be made at the last minute, and we wanted to preserve the holding time. If requested to report, we will report the colormetric method. I have put an NC (44049) on the last sample of each set to hold the results until reporting criteria is determined…please let me know if you have any questions.

Kenny:

- SDG 357277 (03-A192286-291) & 357289 (03-A192338-343) – same client

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12/22/03 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: NAS CECIL FIELD
Project Number: 04-41001/3.
Laboratory Project Number: 357277.

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-46-6D	03-A192286	12/10/03
CEF-46-14D	03-A192287	12/10/03
CEF-46-24D	03-A192288	12/10/03
CEF-46-9I	03-A192289	12/10/03
CEF-46-25I	03-A192290	12/10/03
CEF-46-15I	03-A192291	12/10/03
Trip Blank	03-A192292	12/10/03

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Sample Identification	Lab Number	Collection Date

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Report Approved By: _____ Report Date: 12/22/03

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

Project: 04-41001/3
Project Name: NAS CECIL FIELD
Sampler: KAREN BAER/LARRY WOLSKI

Lab Number: 03-A192286
Sample ID: CEF-46-6D
Sample Type: Water
Site ID: BUILDING46

Date Collected: 12/10/03
Time Collected: 15:17
Date Received: 12/11/03
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	12/12/03	16:07	A. Cobbs	8021B	2458
Ethylbenzene	ND	ug/L	1.0	1.0	12/12/03	16:07	A. Cobbs	8021B	2458
Toluene	ND	ug/L	1.0	1.0	12/12/03	16:07	A. Cobbs	8021B	2458
Xylenes (Total)	ND	ug/L	3.0	1.0	12/12/03	16:07	A. Cobbs	8021B	2458
Methyl-t-butylether	ND	ug/L	1.0	1.0	12/12/03	16:07	A. Cobbs	8021B	2458
TRPH	ND	ug/L	200.	1.0	12/18/03	0:02	Weatherly	FPRO	1233
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	12/15/03	20:39	D. Harris	8270C-SIM	4350
Acenaphthylene	ND	ug/L	0.10	1.0	12/15/03	20:39	D. Harris	8270C-SIM	4350
Anthracene	ND	ug/L	0.10	1.0	12/15/03	20:39	D. Harris	8270C-SIM	4350
Benzo(a)anthracene	ND	ug/L	0.10	1.0	12/15/03	20:39	D. Harris	8270C-SIM	4350
Benzo(a)pyrene	ND	ug/L	0.10	1.0	12/15/03	20:39	D. Harris	8270C-SIM	4350
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	12/15/03	20:39	D. Harris	8270C-SIM	4350
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	12/15/03	20:39	D. Harris	8270C-SIM	4350
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	12/15/03	20:39	D. Harris	8270C-SIM	4350
Chrysene	ND	ug/L	0.10	1.0	12/15/03	20:39	D. Harris	8270C-SIM	4350
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	12/15/03	20:39	D. Harris	8270C-SIM	4350
Fluoranthene	ND	ug/L	0.10	1.0	12/15/03	20:39	D. Harris	8270C-SIM	4350
Fluorene	ND	ug/L	0.10	1.0	12/15/03	20:39	D. Harris	8270C-SIM	4350
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	12/15/03	20:39	D. Harris	8270C-SIM	4350
2-Methylnaphthalene	ND	ug/L	0.10	1.0	12/15/03	20:39	D. Harris	8270C-SIM	4350
Naphthalene	ND	ug/L	0.10	1.0	12/15/03	20:39	D. Harris	8270C-SIM	4350
Phenanthrene	ND	ug/L	0.10	1.0	12/15/03	20:39	D. Harris	8270C-SIM	4350
Pyrene	ND	ug/L	0.10	1.0	12/15/03	20:39	D. Harris	8270C-SIM	4350
1-Methylnaphthalene	ND	ug/L	0.10	1.0	12/15/03	20:39	D. Harris	8270C-SIM	4350

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ANALYTICAL REPORT

Laboratory Number: 03-A192286
Sample ID: CEF-46-6D
Project: 04-41001/3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/L	0.100	1.0	12/12/03	8:13	S. Duncan	353.2	4873
Nitrite-N as N	0.330	mg/L	0.100	1.0	12/12/03	9:06	S. Duncan	353.2	4877
Ortho Phosphate as P	1.34	mg/L	0.100	1.0	12/11/03	17:12	T. Beverly	365.2	1566

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	12/12/03		K. Turner	3510C
Fla Pro	1000 ml	2.0 ml	12/16/03		K. Turner	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	169. #	82. - 142.
TPH Surr, C-35	149.	42. - 193.
BTEX/GRO Surr., a,a,a-TFT	107.	69. - 129.
BNA Surr-Nitrobenzene-d5	152. #	34. - 107.
BNA Surr-2-Fluorobiphenyl	50.	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.

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ANALYTICAL REPORT

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

Project: 04-41001/3
Project Name: NAS CECIL FIELD
Sampler: KAREN BAER/LARRY WOLSKI

Lab Number: 03-A192287
Sample ID: CEF-46-14D
Sample Type: Water
Site ID: BUILDING46

Date Collected: 12/10/03
Time Collected: 12:43
Date Received: 12/11/03
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	12/12/03	16:38	A. Cobbs	8021B	2458
Ethylbenzene	ND	ug/L	1.0	1.0	12/12/03	16:38	A. Cobbs	8021B	2458
Toluene	ND	ug/L	1.0	1.0	12/12/03	16:38	A. Cobbs	8021B	2458
Xylenes (Total)	ND	ug/L	3.0	1.0	12/12/03	16:38	A. Cobbs	8021B	2458
Methyl-t-butylether	ND	ug/L	1.0	1.0	12/12/03	16:38	A. Cobbs	8021B	2458
TRPH	ND	ug/L	200.	1.0	12/13/03	20:34	L. Watson	FPRO	4475
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	12/15/03	21:13	D. Harris	8270C-SIM	4350
Acenaphthylene	ND	ug/L	0.10	1.0	12/15/03	21:13	D. Harris	8270C-SIM	4350
Anthracene	ND	ug/L	0.10	1.0	12/15/03	21:13	D. Harris	8270C-SIM	4350
Benzo(a)anthracene	ND	ug/L	0.10	1.0	12/15/03	21:13	D. Harris	8270C-SIM	4350
Benzo(a)pyrene	ND	ug/L	0.10	1.0	12/15/03	21:13	D. Harris	8270C-SIM	4350
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	12/15/03	21:13	D. Harris	8270C-SIM	4350
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	12/15/03	21:13	D. Harris	8270C-SIM	4350
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	12/15/03	21:13	D. Harris	8270C-SIM	4350
Chrysene	ND	ug/L	0.10	1.0	12/15/03	21:13	D. Harris	8270C-SIM	4350
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	12/15/03	21:13	D. Harris	8270C-SIM	4350
Fluoranthene	ND	ug/L	0.10	1.0	12/15/03	21:13	D. Harris	8270C-SIM	4350
Fluorene	ND	ug/L	0.10	1.0	12/15/03	21:13	D. Harris	8270C-SIM	4350
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	12/15/03	21:13	D. Harris	8270C-SIM	4350
2-Methylnaphthalene	ND	ug/L	0.10	1.0	12/15/03	21:13	D. Harris	8270C-SIM	4350
Naphthalene	ND	ug/L	0.10	1.0	12/15/03	21:13	D. Harris	8270C-SIM	4350
Phenanthrene	ND	ug/L	0.10	1.0	12/15/03	21:13	D. Harris	8270C-SIM	4350
Pyrene	ND	ug/L	0.10	1.0	12/15/03	21:13	D. Harris	8270C-SIM	4350
1-Methylnaphthalene	ND	ug/L	0.10	1.0	12/15/03	21:13	D. Harris	8270C-SIM	4350

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A192287
Sample ID: CEF-46-14D
Project: 04-41001/3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/L	0.100	1.0	12/12/03	8:16	S. Duncan	353.2	4873
Nitrite-N as N	ND	mg/L	0.100	1.0	12/12/03	9:07	S. Duncan	353.2	4877
Ortho Phosphate as P	0.176	mg/L	0.100	1.0	12/11/03	17:12	T. Beverly	365.2	1566

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	12/12/03		K. Turner	3510C
Fla Pro	1000 ml	2.0 ml	12/12/03		K. Turner	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	200. #	82. - 142.
TPH Surr, C-35	128.	42. - 193.
BTEX/GRO Surr., a,a,a-TFT	101.	69. - 129.
BNA Surr-Nitrobenzene-d5	81.	34. - 107.
BNA Surr-2-Fluorobiphenyl	60.	40. - 96.
BNA Surr-Terphenyl-d14	66.	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: 04-41001/3
Project Name: NAS CECIL FIELD
Sampler: KAREN BAER/LARRY WOLSKI

Lab Number: 03-A192288
Sample ID: CEF-46-24D
Sample Type: Water
Site ID: BUILDING46

Date Collected: 12/10/03
Time Collected: 13:55
Date Received: 12/11/03
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	12/12/03	17:09	A. Cobbs	8021B	2458
Ethylbenzene	ND	ug/L	1.0	1.0	12/12/03	17:09	A. Cobbs	8021B	2458
Toluene	ND	ug/L	1.0	1.0	12/12/03	17:09	A. Cobbs	8021B	2458
Xylenes (Total)	ND	ug/L	3.0	1.0	12/12/03	17:09	A. Cobbs	8021B	2458
Methyl-t-butylether	ND	ug/L	1.0	1.0	12/12/03	17:09	A. Cobbs	8021B	2458
TRPH	ND	ug/L	200.	1.0	12/13/03	20:54	L. Watson	FPRO	4475
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	12/17/03	3:49	D. Harris	8270C-SIM	6644
Acenaphthylene	ND	ug/L	0.10	1.0	12/17/03	3:49	D. Harris	8270C-SIM	6644
Anthracene	ND	ug/L	0.10	1.0	12/17/03	3:49	D. Harris	8270C-SIM	6644
Benzo(a)anthracene	ND	ug/L	0.10	1.0	12/17/03	3:49	D. Harris	8270C-SIM	6644
Benzo(a)pyrene	ND	ug/L	0.10	1.0	12/17/03	3:49	D. Harris	8270C-SIM	6644
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	12/17/03	3:49	D. Harris	8270C-SIM	6644
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	12/17/03	3:49	D. Harris	8270C-SIM	6644
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	12/17/03	3:49	D. Harris	8270C-SIM	6644
Chrysene	ND	ug/L	0.10	1.0	12/17/03	3:49	D. Harris	8270C-SIM	6644
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	12/17/03	3:49	D. Harris	8270C-SIM	6644
Fluoranthene	ND	ug/L	0.10	1.0	12/17/03	3:49	D. Harris	8270C-SIM	6644
Fluorene	ND	ug/L	0.10	1.0	12/17/03	3:49	D. Harris	8270C-SIM	6644
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	12/17/03	3:49	D. Harris	8270C-SIM	6644
2-Methylnaphthalene	ND	ug/L	0.10	1.0	12/17/03	3:49	D. Harris	8270C-SIM	6644
Naphthalene	ND	ug/L	0.10	1.0	12/17/03	3:49	D. Harris	8270C-SIM	6644
Phenanthrene	ND	ug/L	0.10	1.0	12/17/03	3:49	D. Harris	8270C-SIM	6644
Pyrene	ND	ug/L	0.10	1.0	12/17/03	3:49	D. Harris	8270C-SIM	6644
1-Methylnaphthalene	ND	ug/L	0.10	1.0	12/17/03	3:49	D. Harris	8270C-SIM	6644

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A192288
Sample ID: CEF-46-24D
Project: 04-41001/3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/L	0.100	1.0	12/12/03	8:17	S. Duncan	353.2	4873
Nitrite-N as N	0.160	mg/L	0.100	1.0	12/12/03	9:08	S. Duncan	353.2	4877
Ortho Phosphate as P	0.119	mg/L	0.100	1.0	12/11/03	17:12	T. Beverly	365.2	1566

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	12/16/03		K. Turner	3510C
Fla Pro	1000 ml	2.0 ml	12/12/03		K. Turner	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	186. #	82. - 142.
TPH Surr, C-35	161.	42. - 193.
BTEX/GRO Surr., a,a,a-TFT	101.	69. - 129.
BNA Surr-Nitrobenzene-d5	75.	34. - 107.
BNA Surr-2-Fluorobiphenyl	53.	40. - 96.
BNA Surr-Terphenyl-d14	57.	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-A192289
Sample ID: CEF-46-9I
Sample Type: Water
Site ID: BUILDING46

Project: 04-41001/3
Project Name: NAS CECIL FIELD
Sampler: KAREN BAER/LARRY WOLSKI

Date Collected: 12/10/03
Time Collected: 14:17
Date Received: 12/11/03
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	12/12/03	17:39	A. Cobbs	8021B	2458
Ethylbenzene	ND	ug/L	1.0	1.0	12/12/03	17:39	A. Cobbs	8021B	2458
Toluene	ND	ug/L	1.0	1.0	12/12/03	17:39	A. Cobbs	8021B	2458
Xylenes (Total)	ND	ug/L	3.0	1.0	12/12/03	17:39	A. Cobbs	8021B	2458
Methyl-t-butylether	ND	ug/L	1.0	1.0	12/12/03	17:39	A. Cobbs	8021B	2458
TRPH	ND	ug/L	200.	1.0	12/13/03	21:14	L. Watson	FPRO	4475
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	12/17/03	4:22	D. Harris	8270C-SIM	6644
Acenaphthylene	ND	ug/L	0.10	1.0	12/17/03	4:22	D. Harris	8270C-SIM	6644
Anthracene	ND	ug/L	0.10	1.0	12/17/03	4:22	D. Harris	8270C-SIM	6644
Benzo(a)anthracene	ND	ug/L	0.10	1.0	12/17/03	4:22	D. Harris	8270C-SIM	6644
Benzo(a)pyrene	ND	ug/L	0.10	1.0	12/17/03	4:22	D. Harris	8270C-SIM	6644
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	12/17/03	4:22	D. Harris	8270C-SIM	6644
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	12/17/03	4:22	D. Harris	8270C-SIM	6644
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	12/17/03	4:22	D. Harris	8270C-SIM	6644
Chrysene	ND	ug/L	0.10	1.0	12/17/03	4:22	D. Harris	8270C-SIM	6644
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	12/17/03	4:22	D. Harris	8270C-SIM	6644
Fluoranthene	ND	ug/L	0.10	1.0	12/17/03	4:22	D. Harris	8270C-SIM	6644
Fluorene	ND	ug/L	0.10	1.0	12/17/03	4:22	D. Harris	8270C-SIM	6644
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	12/17/03	4:22	D. Harris	8270C-SIM	6644
2-Methylnaphthalene	ND	ug/L	0.10	1.0	12/17/03	4:22	D. Harris	8270C-SIM	6644
Naphthalene	ND	ug/L	0.10	1.0	12/17/03	4:22	D. Harris	8270C-SIM	6644
Phenanthrene	ND	ug/L	0.10	1.0	12/17/03	4:22	D. Harris	8270C-SIM	6644
Pyrene	ND	ug/L	0.10	1.0	12/17/03	4:22	D. Harris	8270C-SIM	6644
1-Methylnaphthalene	ND	ug/L	0.10	1.0	12/17/03	4:22	D. Harris	8270C-SIM	6644

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A192289
Sample ID: CEF-46-9I
Project: 04-41001/3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/L	0.100	1.0	12/12/03	8:17	S. Duncan	353.2	4873
Nitrite-N as N	0.180	mg/L	0.100	1.0	12/12/03	9:09	S. Duncan	353.2	4877
Ortho Phosphate as P	0.308	mg/L	0.100	1.0	12/11/03	17:12	T. Beverly	365.2	1566

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	12/16/03		K. Turner	3510C
Fla Pro	1000 ml	2.0 ml	12/12/03		K. Turner	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	164. #	82. - 142.
TPH Surr, C-35	110.	42. - 193.
BTEX/GRO Surr., a,a,a-TFT	101.	69. - 129.
BNA Surr-Nitrobenzene-d5	84.	34. - 107.
BNA Surr-2-Fluorobiphenyl	57.	40. - 96.
BNA Surr-Terphenyl-d14	61.	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.

TestAmerica
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ANALYTICAL REPORT

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

Project: 04-41001/3
Project Name: NAS CECIL FIELD
Sampler: KAREN BAER/LARRY WOLSKI

Lab Number: 03-A192290
Sample ID: CEF-46-25I
Sample Type: Water
Site ID: BUILDING46

Date Collected: 12/10/03
Time Collected: 15:37
Date Received: 12/11/03
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	12/12/03	18:10	A. Cobbs	8021B	2458
Ethylbenzene	ND	ug/L	1.0	1.0	12/12/03	18:10	A. Cobbs	8021B	2458
Toluene	ND	ug/L	1.0	1.0	12/12/03	18:10	A. Cobbs	8021B	2458
Xylenes (Total)	ND	ug/L	3.0	1.0	12/12/03	18:10	A. Cobbs	8021B	2458
Methyl-t-butylether	ND	ug/L	1.0	1.0	12/12/03	18:10	A. Cobbs	8021B	2458
TRPH	ND	ug/L	200.	1.0	12/13/03	21:34	L. Watson	FPRO	4475
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	12/15/03	22:55	D. Harris	8270C-SIM	4350
Acenaphthylene	ND	ug/L	0.10	1.0	12/15/03	22:55	D. Harris	8270C-SIM	4350
Anthracene	ND	ug/L	0.10	1.0	12/15/03	22:55	D. Harris	8270C-SIM	4350
Benzo(a)anthracene	ND	ug/L	0.10	1.0	12/15/03	22:55	D. Harris	8270C-SIM	4350
Benzo(a)pyrene	ND	ug/L	0.10	1.0	12/15/03	22:55	D. Harris	8270C-SIM	4350
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	12/15/03	22:55	D. Harris	8270C-SIM	4350
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	12/15/03	22:55	D. Harris	8270C-SIM	4350
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	12/15/03	22:55	D. Harris	8270C-SIM	4350
Chrysene	ND	ug/L	0.10	1.0	12/15/03	22:55	D. Harris	8270C-SIM	4350
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	12/15/03	22:55	D. Harris	8270C-SIM	4350
Fluoranthene	ND	ug/L	0.10	1.0	12/15/03	22:55	D. Harris	8270C-SIM	4350
Fluorene	ND	ug/L	0.10	1.0	12/15/03	22:55	D. Harris	8270C-SIM	4350
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	12/15/03	22:55	D. Harris	8270C-SIM	4350
2-Methylnaphthalene	ND	ug/L	0.10	1.0	12/15/03	22:55	D. Harris	8270C-SIM	4350
Naphthalene	ND	ug/L	0.10	1.0	12/15/03	22:55	D. Harris	8270C-SIM	4350
Phenanthrene	ND	ug/L	0.10	1.0	12/15/03	22:55	D. Harris	8270C-SIM	4350
Pyrene	ND	ug/L	0.10	1.0	12/15/03	22:55	D. Harris	8270C-SIM	4350
1-Methylnaphthalene	ND	ug/L	0.10	1.0	12/15/03	22:55	D. Harris	8270C-SIM	4350

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A192290
Sample ID: CEF-46-25I
Project: 04-41001/3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/L	0.100	1.0	12/12/03	8:18	S. Duncan	353.2	4873
Nitrite-N as N	ND	mg/L	0.100	1.0	12/12/03	9:09	S. Duncan	353.2	4877
Ortho Phosphate as P	ND	mg/L	0.100	1.0	12/11/03	17:12	T. Beverly	365.2	1566

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	12/12/03		K. Turner	3510C
Fla Pro	1000 ml	2.0 ml	12/12/03		K. Turner	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	163. #	82. - 142.
TPH Surr, C-35	100.	42. - 193.
BTEX/GRO Surr., a,a,a-TFT	102.	69. - 129.
BNA Surr-Nitrobenzene-d5	77.	34. - 107.
BNA Surr-2-Fluorobiphenyl	58.	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: 04-41001/3
Project Name: NAS CECIL FIELD
Sampler: KAREN BAER/LARRY WOLSKI

Lab Number: 03-A192291
Sample ID: CEF-46-15I
Sample Type: Water
Site ID: BUILDING46

Date Collected: 12/10/03
Time Collected: 12:59
Date Received: 12/11/03
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	12/12/03	18:41	A. Cobbs	8021B	2458
Ethylbenzene	ND	ug/L	1.0	1.0	12/12/03	18:41	A. Cobbs	8021B	2458
Toluene	ND	ug/L	1.0	1.0	12/12/03	18:41	A. Cobbs	8021B	2458
Xylenes (Total)	ND	ug/L	3.0	1.0	12/12/03	18:41	A. Cobbs	8021B	2458
Methyl-t-butylether	ND	ug/L	1.0	1.0	12/12/03	18:41	A. Cobbs	8021B	2458
TRPH	ND	ug/L	200.	1.0	12/13/03	21:53	L. Watson	FPRO	4475
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	12/15/03	23:29	D. Harris	8270C-SIM	4350
Acenaphthylene	ND	ug/L	0.10	1.0	12/15/03	23:29	D. Harris	8270C-SIM	4350
Anthracene	ND	ug/L	0.10	1.0	12/15/03	23:29	D. Harris	8270C-SIM	4350
Benzo(a)anthracene	ND	ug/L	0.10	1.0	12/15/03	23:29	D. Harris	8270C-SIM	4350
Benzo(a)pyrene	ND	ug/L	0.10	1.0	12/15/03	23:29	D. Harris	8270C-SIM	4350
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	12/15/03	23:29	D. Harris	8270C-SIM	4350
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	12/15/03	23:29	D. Harris	8270C-SIM	4350
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	12/15/03	23:29	D. Harris	8270C-SIM	4350
Chrysene	ND	ug/L	0.10	1.0	12/15/03	23:29	D. Harris	8270C-SIM	4350
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	12/15/03	23:29	D. Harris	8270C-SIM	4350
Fluoranthene	ND	ug/L	0.10	1.0	12/15/03	23:29	D. Harris	8270C-SIM	4350
Fluorene	ND	ug/L	0.10	1.0	12/15/03	23:29	D. Harris	8270C-SIM	4350
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	12/15/03	23:29	D. Harris	8270C-SIM	4350
2-Methylnaphthalene	ND	ug/L	0.10	1.0	12/15/03	23:29	D. Harris	8270C-SIM	4350
Naphthalene	ND	ug/L	0.10	1.0	12/15/03	23:29	D. Harris	8270C-SIM	4350
Phenanthrene	ND	ug/L	0.10	1.0	12/15/03	23:29	D. Harris	8270C-SIM	4350
Pyrene	ND	ug/L	0.10	1.0	12/15/03	23:29	D. Harris	8270C-SIM	4350
1-Methylnaphthalene	ND	ug/L	0.10	1.0	12/15/03	23:29	D. Harris	8270C-SIM	4350

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A192291
Sample ID: CEF-46-15I
Project: 04-41001/3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/L	0.100	1.0	12/12/03	8:20	S. Duncan	353.2	4873
Nitrite-N as N	ND	mg/L	0.100	1.0	12/12/03	9:10	S. Duncan	353.2	4877
Ortho Phosphate as P	ND	mg/L	0.100	1.0	12/11/03	17:12	T. Beverly	365.2	1566

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	12/12/03		K. Turner	3510C
Fla Pro	1000 ml	2.0 ml	12/12/03		K. Turner	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	187. #	82. - 142.
TPH Surr, C-35	143.	42. - 193.
BTEX/GRO Surr., a,a,a-TFT	101.	69. - 129.
BNA Surr-Nitrobenzene-d5	83.	34. - 107.
BNA Surr-2-Fluorobiphenyl	60.	40. - 96.
BNA Surr-Terphenyl-d14	62.	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: 04-41001/3
Project Name: NAS CECIL FIELD
Sampler: KAREN BAER/LARRY WOLSKI

Lab Number: 03-A192292
Sample ID: Trip Blank
Sample Type: Water
Site ID: BUILDING46

Date Collected: 12/10/03
Time Collected:
Date Received: 12/11/03
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	12/12/03	19:11	A. Cobbs	8021B	2458
Ethylbenzene	ND	ug/L	1.0	1.0	12/12/03	19:11	A. Cobbs	8021B	2458
Toluene	ND	ug/L	1.0	1.0	12/12/03	19:11	A. Cobbs	8021B	2458
Xylenes (Total)	ND	ug/L	3.0	1.0	12/12/03	19:11	A. Cobbs	8021B	2458
Methyl-t-butylether	ND	ug/L	1.0	1.0	12/12/03	19:11	A. Cobbs	8021B	2458

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	103.	69. - 129.

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: 04-41001/3
Project Name: NAS CECIL FIELD
Page: 1
Laboratory Receipt Date: 12/11/03

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
UST ANALYSIS								
Benzene	mg/l	< 0.00100	0.0555	0.0500	111	60. - 143.	2458	03-A192291
Toluene	mg/l	< 0.0010	0.0539	0.0500	108	62. - 139.	2458	03-A192291
Ethylbenzene	mg/l	< 0.0010	0.0518	0.0500	104	61. - 138.	2458	03-A192291
Xylenes (Total)	mg/l	< 0.0030	0.0985	0.100	98	59. - 137.	2458	03-A192291
Methyl-t-butylether	mg/l	< 0.0010	0.0467	0.0500	93	60. - 138.	2458	03-A192291
TRPH	mg/l	< 0.100	0.922	0.430	214#	44. - 101.	4475	blank
TRPH	mg/l	< 0.100	0.413	0.430	96	44. - 101.	1233	blank
BTEX/GRO Surr., a,a,a-TFT	% Recovery				93	69 - 129	2458	
EXTRACTABLE PARAMETERS								
Acenaphthene	mg/l	< 0.00010	0.00060	0.00100	60	28 - 106	6644	BLANK
Pyrene	mg/l	< 0.00010	0.00069	0.00100	69	35 - 118	6644	BLANK
BNA Surr-Nitrobenzene-d5	% Rec				73	34 - 107	6644	
BNA Surr-2-Fluorobiphenyl	% Rec				50	40 - 96	6644	
BNA Surr-Terphenyl-d14	% Rec				53	26 - 106	6644	
MISC PARAMETERS								
Nitrate-N as N	mg/l	< 0.100	2.65	6.00	44#	80 - 120	4873	03-A192286
Nitrate-N as N	mg/l	< 0.100	2.60	6.00	43#	80 - 120	4873	03-A192286
Nitrite-N as N	mg/l	0.330	1.63	3.00	43#	80 - 120	4877	03-A192286
Ortho Phosphate as P	mg/l	< 0.100	0.262	0.250	105	80 - 120	1566	03-A192346

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: NAS CECIL FIELD
Page: 2
Laboratory Receipt Date: 12/11/03

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
Benzene	mg/l	0.0555	0.0561	1.08	23.	2458
Toluene	mg/l	0.0539	0.0546	1.29	24.	2458
Ethylbenzene	mg/l	0.0518	0.0525	1.34	24.	2458
Xylenes (Total)	mg/l	0.0985	0.0996	1.11	25.	2458
Methyl-t-butylether	mg/l	0.0467	0.0477	2.12	24.	2458
TRPH	mg/l	0.922	0.589	44.08#	41.	4475
TRPH	mg/l	0.413	0.509	20.82	41.	1233
BTEX/GRO Surr., a,a,a-TFT	% Recovery		91.			2458
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00060	0.00065	8.00	33.	6644
Pyrene	mg/l	0.00069	0.00070	1.44	32.	6644
BNA Surr-Nitrobenzene-d5	% Rec		78.			6644
BNA Surr-2-Fluorobiphenyl	% Rec		54.			6644
BNA Surr-Terphenyl-d14	% Rec		56.			6644
Nitrate-N as N	mg/l	2.65	2.60	1.90	20	4873
Nitrite-N as N	mg/l	1.63	1.60	1.86	20	4877
Ortho Phosphate as P	mg/l	0.262	0.262	0.00	20	1566

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Benzene	mg/l	0.100	0.0964	96	74 - 120	2458

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: NAS CECIL FIELD
Page: 3
Laboratory Receipt Date: 12/11/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Toluene	mg/l	0.100	0.0934	93	73 - 118	2458
Ethylbenzene	mg/l	0.100	0.0894	89	72 - 118	2458
Xylenes (Total)	mg/l	0.200	0.170	85	72 - 116	2458
Methyl-t-butylether	mg/l	0.100	0.0855	86	64 - 124	2458
TRPH	mg/l	0.430	0.595	138 #	55 - 118	4475
TRPH	mg/l	0.430	0.509	118 #	55 - 118	1233
BTEX/GRO Surr., a,a,a-TFT	% Recovery			88	69 - 129	2458
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00100	0.00066	66	28 - 106	4350
Acenaphthene	mg/l	0.00100	0.00069	69	28 - 106	6644
Acenaphthylene	mg/l	0.00100	0.00080	80	26 - 106	4350
Acenaphthylene	mg/l	0.00100	0.00075	75	26 - 106	6644
Anthracene	mg/l	0.00100	0.00084	84	30 - 116	4350
Anthracene	mg/l	0.00100	0.00082	82	30 - 116	6644
Benzo(a)anthracene	mg/l	0.00100	0.00092	92	38 - 128	4350
Benzo(a)anthracene	mg/l	0.00100	0.00085	85	38 - 128	6644
Benzo(a)pyrene	mg/l	0.00100	0.00089	89	34 - 117	4350
Benzo(a)pyrene	mg/l	0.00100	0.00085	85	34 - 117	6644
Benzo(b)fluoranthene	mg/l	0.00100	0.00084	84	37 - 132	4350
Benzo(b)fluoranthene	mg/l	0.00100	0.00089	89	37 - 132	6644
Benzo(g,h,i)perylene	mg/l	0.00100	0.00071	71	28 - 122	4350
Benzo(g,h,i)perylene	mg/l	0.00100	0.00075	75	28 - 122	6644
Benzo(k)fluoranthene	mg/l	0.00100	0.00071	71	35 - 128	4350
Benzo(k)fluoranthene	mg/l	0.00100	0.00077	77	35 - 128	6644
Chrysene	mg/l	0.00100	0.00055	55	42 - 126	4350
Chrysene	mg/l	0.00100	0.00059	59	42 - 126	6644
Dibenz(a,h)anthracene	mg/l	0.00100	0.00065	65	35 - 124	4350
Dibenz(a,h)anthracene	mg/l	0.00100	0.00070	70	35 - 124	6644
Fluoranthene	mg/l	0.00100	0.00081	81	35 - 125	4350
Fluoranthene	mg/l	0.00100	0.00075	75	35 - 125	6644
Fluorene	mg/l	0.00100	0.00072	72	30 - 112	4350

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: NAS CECIL FIELD
Page: 4
Laboratory Receipt Date: 12/11/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Fluorene	mg/l	0.00100	0.00073	73	30 - 112	6644
Indeno(1,2,3-cd)pyrene	mg/l	0.00100	0.00076	76	34 - 121	4350
Indeno(1,2,3-cd)pyrene	mg/l	0.00100	0.00076	76	34 - 121	6644
2-Methylnaphthalene	mg/l	0.00100	0.00063	63	31 - 108	4350
2-Methylnaphthalene	mg/l	0.00100	0.00070	70	31 - 108	6644
Naphthalene	mg/l	0.00100	0.00064	64	9 - 120	4350
Naphthalene	mg/l	0.00100	0.00071	71	9 - 120	6644
Phenanthrene	mg/l	0.00100	0.00065	65	34 - 116	4350
Phenanthrene	mg/l	0.00100	0.00067	67	34 - 116	6644
Pyrene	mg/l	0.00100	0.00077	77	35 - 118	4350
Pyrene	mg/l	0.00100	0.00073	73	35 - 118	6644
1-Methylnaphthalene	mg/l	0.00100	0.00065	65	31 - 112	4350
1-Methylnaphthalene	mg/l	0.00100	0.00072	72	31 - 112	6644
BNA Surr-Nitrobenzene-d5	% Rec			86	34 - 107	4350
BNA Surr-Nitrobenzene-d5	% Rec			81	34 - 107	6644
BNA Surr-2-Fluorobiphenyl	% Rec			56	40 - 96	4350
BNA Surr-2-Fluorobiphenyl	% Rec			58	40 - 96	6644
BNA Surr-Terphenyl-d14	% Rec			58	26 - 106	4350
BNA Surr-Terphenyl-d14	% Rec			58	26 - 106	6644
MISC PARAMETERS						
Nitrate-N as N	mg/l	6.00	6.00	100	88 - 113	4873
Nitrite-N as N	mg/l	3.00	3.00	100	83 - 111	4877
Ortho Phosphate as P	mg/l	0.250	0.260	104	88 - 107	1566

Duplicates

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

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: NAS CECIL FIELD
Page: 5
Laboratory Receipt Date: 12/11/03

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Nitrate-N as N	mg/l	15.0	14.5	3.39	15.	4873	03-A192375
Nitrite-N as N	mg/l	0.480	0.490	2.06	15.	4877	03-A192375

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
Benzene	< 0.00071	mg/l	2458	12/12/03	13:41
Toluene	< 0.0007	mg/l	2458	12/12/03	13:41
Ethylbenzene	< 0.0008	mg/l	2458	12/12/03	13:41
Xylenes (Total)	< 0.0018	mg/l	2458	12/12/03	13:41
Methyl-t-butylether	< 0.0008	mg/l	2458	12/12/03	13:41
TRPH	< 0.100	mg/l	4475	12/13/03	18:17
TRPH	0.358	mg/l	1233	12/19/03	17:24
TPH Surr., O-Terphenyl	209.	% Recovery	4475	12/13/03	18:17
TPH Surr., O-Terphenyl	108.	% Recovery	1233	12/19/03	17:24
TPH Surr, C-35	152.	% Recovery	4475	12/13/03	18:17
TPH Surr, C-35	89.	% Recovery	1233	12/19/03	17:24
BTEX/GRO Surr., a,a,a-TFT	102.	% Recovery	2458	12/12/03	13:41
EXTRACTABLE PARAMETERS					
Acenaphthene	< 0.00010	mg/l	4350	12/15/03	14:25
Acenaphthene	< 0.00010	mg/l	6644	12/17/03	1:34
Acenaphthylene	< 0.00010	mg/l	4350	12/15/03	14:25
Acenaphthylene	< 0.00010	mg/l	6644	12/17/03	1:34
Anthracene	< 0.00010	mg/l	4350	12/15/03	14:25
Anthracene	< 0.00010	mg/l	6644	12/17/03	1:34
Benzo(a)anthracene	< 0.00010	mg/l	4350	12/15/03	14:25
Benzo(a)anthracene	< 0.00010	mg/l	6644	12/17/03	1:34

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: NAS CECIL FIELD
Page: 6
Laboratory Receipt Date: 12/11/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Benzo(a)pyrene	< 0.00010	mg/l	4350	12/15/03	14:25
Benzo(a)pyrene	< 0.00010	mg/l	6644	12/17/03	1:34
Benzo(b)fluoranthene	< 0.00010	mg/l	4350	12/15/03	14:25
Benzo(b)fluoranthene	< 0.00010	mg/l	6644	12/17/03	1:34
Benzo(g,h,i)perylene	< 0.00010	mg/l	4350	12/15/03	14:25
Benzo(g,h,i)perylene	< 0.00010	mg/l	6644	12/17/03	1:34
Benzo(k)fluoranthene	< 0.00010	mg/l	4350	12/15/03	14:25
Benzo(k)fluoranthene	< 0.00010	mg/l	6644	12/17/03	1:34
Chrysene	< 0.00010	mg/l	4350	12/15/03	14:25
Chrysene	< 0.00010	mg/l	6644	12/17/03	1:34
Dibenz(a,h)anthracene	< 0.00010	mg/l	4350	12/15/03	14:25
Dibenz(a,h)anthracene	< 0.00010	mg/l	6644	12/17/03	1:34
Fluoranthene	< 0.00010	mg/l	4350	12/15/03	14:25
Fluoranthene	< 0.00010	mg/l	6644	12/17/03	1:34
Fluorene	< 0.00010	mg/l	4350	12/15/03	14:25
Fluorene	< 0.00010	mg/l	6644	12/17/03	1:34
Indeno(1,2,3-cd)pyrene	< 0.00010	mg/l	4350	12/15/03	14:25
Indeno(1,2,3-cd)pyrene	< 0.00010	mg/l	6644	12/17/03	1:34
2-Methylnaphthalene	< 0.00010	mg/l	4350	12/15/03	14:25
2-Methylnaphthalene	< 0.00010	mg/l	6644	12/17/03	1:34
Naphthalene	< 0.00010	mg/l	4350	12/15/03	14:25
Naphthalene	< 0.00010	mg/l	6644	12/17/03	1:34
Phenanthrene	< 0.00010	mg/l	4350	12/15/03	14:25
Phenanthrene	< 0.00010	mg/l	6644	12/17/03	1:34
Pyrene	< 0.00010	mg/l	4350	12/15/03	14:25
Pyrene	< 0.00010	mg/l	6644	12/17/03	1:34
1-Methylnaphthalene	< 0.00010	mg/l	4350	12/15/03	14:25
1-Methylnaphthalene	< 0.00010	mg/l	6644	12/17/03	1:34

Project QC continued . . .

TestAmerica
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PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: NAS CECIL FIELD
Page: 7
Laboratory Receipt Date: 12/11/03

BNA Surr-Nitrobenzene-d5	98.	% Rec	4350	12/15/03	14:25
BNA Surr-Nitrobenzene-d5	84.	% Rec	6644	12/17/03	1:34
BNA Surr-2-Fluorobiphenyl	56.	% Rec	4350	12/15/03	14:25
BNA Surr-2-Fluorobiphenyl	54.	% Rec	6644	12/17/03	1:34
BNA Surr-Terphenyl-d14	66.	% Rec	4350	12/15/03	14:25
BNA Surr-Terphenyl-d14	58.	% Rec	6644	12/17/03	1:34
MISC PARAMETERS					
Nitrate-N as N	< 0.100	mg/l	4873	12/12/03	8:11
Nitrite-N as N	< 0.100	mg/l	4877	12/12/03	9:04
Ortho Phosphate as P	< 0.100	mg/l	1566	12/11/03	17:12

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 357277

Appendix D

FDEP Annual Status Report Form

DEP Form # 62-785.900(5)
Form Title: Active Remediation Status Report Summary
Effective Date: July 6, 1998

Active Remediation Status Report Summary

(Use additional blank sheets if necessary to explain status of site.)

Site Name Building 46 **DEP Site ID No.** _____

Location NAS Cecil Field, Jacksonville, **Applicable Dates** 01 / 01 / 03 to 12 /31/03

RAP Approval Date ___/___/___ **System Startup Date** 1 / 18 / 01

Media Contaminated: X **Groundwater** **Surface Water** **Sediment** X **Soil** **Air**

Estimated Total Mass Recovered or Remediated This Period _____ **(lbs)**

Method of Groundwater Remediation:

Amount of Mass Removed _____ (gals)

Pump-and-Treat:

- Design Flow Rate _____ (gpm)
- Actual Flow Rate _____ (gpm)
- Total Vol. Recovered to Date _____ (1000 gal)

In Situ Air Sparging:

- Design Air Flow Rate 18 to 30 (cfm)
- Actual Air Flow Rate 17 (cfm)
- Estimated Radius of Influence _____ (ft)

Biosparging

- Design Flow Rate _____ (gpm)
- Actual Flow Rate _____ (gpm)

Bioremediation

Other _____

Free Product Present: Yes X No

- Volume Recovered to Date _____(gal)

Concentration of Total VOAs in Designated Wells:

	This Period		Previous period	
MW- 1S	6794	ppb	11034	ppb
MW- 2S	21.7	ppb	91.7	ppb
MW-7I	6960	ppb	6170	ppb
MW-26I	1113	ppb	1934	ppb

Method of Soil Remediation:

Vapor Extraction System (VES):

- Design Air Flow Rate _____ (cfm)
- Actual Air Flow Rate _____ (cfm)
- Estimated Radius of Influence _____ (ft)
- Air Emissions Treatment

Discontinued / date ___/___/___ Ongoing

Soil Bioventing

- Design Air Flow Rate _____ (cfm)
- Actual Air Flow Rate ____ (cfm)

In Situ Bioremediation

Other PHOSter Nutrient Injection System

Amount of Mass Removed N/A (yds$^{3)}$

Estimated Time of Cleanup:

- Estimated time of cleanup based on target level concentration C and on the exponential decay equation, $C_1 = C_0 e^{xt_1}$, where C_1 = present concentration at the most contaminated source well (ppb); C_0 = highest initial concentration of applicable chemical of concern at system startup (ppb); x = decay coefficient; and t_1 = length of time between initial and present concentration (days). A semi-log plot for cleanup times should be provided.
- Solve for decay coefficient, x:

[ln(430 (ppb) / 13,000 (ppb))] / (1085 (days)) = .0031419

present concentration, C_1 initial concentration, C_0 time, t_1 decay coefficient, x

- Using this decay coefficient (x), solve for estimated time of cleanup (t):

[ln(1 (ppb) / 430 (ppb))] / (1930) = 5.3 years

target concentration, C present concentration, C_1 decay coefficient, x estimated time of cleanup, t

Calculated Cleanup Time Compared to Cleanup Time Predicted in RAP: _____

O & M Problems: Yes No (if yes, provide explanation below)

- No. of scheduled O & M visits monthly
- Down-time 56 (days)
- No. of unscheduled O & M visits _____

Short Description of Effectiveness of Cleanup: Contaminants are decreasing but exceed GCTLs

Recommendations and Proposed Modifications: Continue remediation but optimize airflow to induce aerobic conditions and optimize feed rates to restore pH to higher levels.

Appendix E
Groundwater Sampling Logs

GROUNDWATER SAMPLING LOG

TERRAINE

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1:	Technician 2: Larry Wolski	Weather: Cloudy
Sampling ID: 04-41001/3:CEF-46-12I:12/11/2003		
Notes:		

Well Information

Well ID: **CEF-46-12I**	Sampling Date: **12/11/2003**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 78.73	Northing: 0	Easting: 0
Static Depth to Water (ft): 5.45	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 25.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 08:37	Purge End: 08:49	Total Volume Purged (gal): 0.70	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Color	Odor
08:41	5.54	0.20	0.00	1.64	22.85	0.3	4.77	157.0	29.20	orange	none
08:44	5.54	0.40	0.00	1.03	23.57	0.3	4.87	143.0	23.50		
08:47	5.50	0.60	0.10	0.76	23.81	0.3	4.92	135.0	23.50		
08:49	5.55	0.70	0.10	0.62	23.82	0.3	4.95	133.0	20.30		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	12/11/2003	DO (mg/L):	0.61	DO:	0.80	Sulfate:	0.00
Sample Start Time:	08:49	Temp (*C):	23.96	CO2:	84.00	Sulfide:	0.00
Sample End Time:	09:49	SEC (uS/cm):	0.31	Alkalinity:	1.00		
Field Filtered:	☐	pH:	4.97	Ferrous Iron:	2.20		
Duplicate:	☐	ORP (mV):	129.00	H2S:	0.10		
		Turb (NTU):	19.40	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials
"BTEX/MTBE, Nitrate/Nitrite, Orthophosphate, PAHs, TRPH"	

GROUNDWATER SAMPLING LOG

TERRAINE

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2:	Weather: "Cloudy, Cold"
Sampling ID: 04-41001/3:CEF-46-13I:12/11/2003		
Notes: CO2-interference		

Well Information

Well ID: **CEF-46-13I**	Sampling Date: **12/11/2003**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 78.87	Northing: 0	Easting: 0
Static Depth to Water (ft): 5.90	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 35.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 08:35	Purge End: 08:46	Total Volume Purged (gal): 0.80	

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
08:40	5.90	0.30	0.00	0.94	23.37	796.0	3.88	220.0	12.50	clear	sulfuric
08:43	5.90	0.60	0.00	0.44	23.76	952.0	3.95	193.0	8.86		
08:46	5.90	0.80	0.06	1.18	23.85	999.0	3.91	169.0	7.23		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	12/11/2003	DO (mg/L):	1.11	DO:	0.00	Sulfate:	0.00
Sample Start Time:	08:48	Temp (*C):	24.10	CO2:	0.00	Sulfide:	0.00
Sample End Time:	09:15	SEC (uS/cm):	999.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	3.93	Ferrous Iron:	3.20		
Duplicate:	☐	ORP (mV):	160.00	H2S:	5.00		
		Turb (NTU):	5.13	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials
"BTEX/MTBE, TRPH, PAHs, Nitrate/Nitrite, Orthophosphate"	

GROUNDWATER SAMPLING LOG

TERRAINE

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2:	Weather: Sunny
Sampling ID: 04-41001/3:CEF-46-14D:12/10/2003		
Notes:		

Well Information

Well ID: **CEF-46-14D**	Sampling Date: **12/10/2003**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 78.88	Northing: 0	Easting: 0
Static Depth to Water (ft): 7.20	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 70.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 13:29	Purge End: 13:43	Total Volume Purged (gal): 1.00	

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
12:35	8.55	0.50	0.00	1.08	25.73	28.6	5.43	-27.0	7.29	clear	sulfuric
12:37	8.45	0.70	0.00	0.38	25.88	284.0	5.40	-42.0	4.12		
12:40	8.45	1.00	0.15	0.24	25.94	283.0	5.38	-59.0	2.43		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	12/10/2003	DO (mg/L):	0.07	DO:	0.00	Sulfate:	0.00
Sample Start Time:	12:43	Temp (*C):	25.92	CO2:	136.00	Sulfide:	0.00
Sample End Time:	13:15	SEC (uS/cm):	282.00	Alkalinity:	10.00		
Field Filtered:	☐	pH:	5.36	Ferrous Iron:	2.40		
Duplicate:	☐	ORP (mV):	-62.00	H2S:	1.00		
		Turb (NTU):	1.75	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials
"BTEX/MTBE, TRPH, PAHs, Nitrate/Nitrite, Orthophosphate"	

GROUNDWATER SAMPLING LOG

TERRAINE

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1:	Technician 2: Larry Wolski	Weather: Sunny
Sampling ID: 04-41001/3:CEF-46-15I:12/10/2003		
Notes:		

Well Information

Well ID: **CEF-46-15I**	Sampling Date: **12/10/2003**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 79.75	Northing: 0	Easting: 0
Static Depth to Water (ft): 6.53	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 25.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 12:28	Purge End: 12:46	Total Volume Purged (gal): 0.50	

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
12:40	6.65	0.20	0.00	6.93	23.17	0.3	3.88	102.0	50.40	clear	none
12:43	6.64	0.30	0.00	6.50	23.32	0.3	3.91	108.0	47.70		
12:45	6.65	0.40	0.10	6.44	23.46	0.3	3.95	111.0	42.70		
12:46	6.65	0.50	0.10	6.18	23.57	0.3	3.99	89.0	38.50		

Sampling Data

Sample Information

Sample Date:	12/10/2003
Sample Start Time:	12:46
Sample End Time:	13:33
Field Filtered:	☐
Duplicate:	☐

Final Purge Readings

DO (mg/L):	6.16
Temp (*C):	23.64
SEC (uS/cm):	0.29
pH:	4.00
ORP (mV):	99.00
Turb (NTU):	38.50

Field Test Kit Readings (mg/L)

DO:	5.00	Sulfate:	0.00
CO2:	124.00	Sulfide:	0.00
Alkalinity:	1.00		
Ferrous Iron:	3.50		
H2S:	0.10		
Manganese:	0.00		

Lab Analyses/Methods:

"BTEX/MTBE, Nitrate/Nitrite, Orthophosphate, PAHs, TRPH"

Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2:	Weather: "Cold, Sunny"
Sampling ID: 04-41001/3:CEF-46-1S:12/11/2003		
Notes:		

Well Information

Well ID: **CEF-46-1S**	Sampling Date: **12/11/2003**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 79.08	Northing: 0	Easting: 0
Static Depth to Water (ft): 5.20	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 7.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 11:00	Purge End: 11:28	Total Volume Purged (gal): 2.90	

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
11:21	6.55	2.20	0.00	0.00	23.04	218.0	6.00	-324.0	36.80	black	strong HC
11:24	6.60	2.50	0.00	0.00	23.17	224.0	6.02	-326.0	32.50		
11:28	6.60	2.90	0.13	0.00	23.13	232.0	5.98	-330.0	29.70		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	12/11/2003	DO (mg/L):	0.00	DO:	0.00	Sulfate:	0.00
Sample Start Time:	11:30	Temp (*C):	23.15	CO2:	400.00	Sulfide:	0.00
Sample End Time:	11:59	SEC (uS/cm):	234.00	Alkalinity:	250.00		
Field Filtered:	☐	pH:	5.98	Ferrous Iron:	1.40		
Duplicate:	☐	ORP (mV):	-332.00	H2S:	5.00		
		Turb (NTU):	30.30	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials
"BTEX/MTBE, TRPH, PAHs, Nitrate/Nitrite, Orthophosphate"	

GROUNDWATER SAMPLING LOG

TERRAINE

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2:	Weather: "Cloudy, Cold"
Sampling ID: 04-41001/3:CEF-46-21I:12/11/2003		
Notes:		

Well Information

Well ID: **CEF-46-21I**	Sampling Date: **12/11/2003**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 79.33	Northing: 0	Easting: 0
Static Depth to Water (ft): 7.50	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 24.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 07:25	Purge End: 07:38	Total Volume Purged (gal): 0.90	

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
07:28	7.65	0.20	0.00	4.64	22.19	430.0	3.49	395.0	207.00	orange	sulfuric
07:31	6.65	0.40	0.00	4.10	22.43	438.0	3.51	402.0	228.00		
07:34	6.65	0.70	0.10	3.65	22.74	459.0	3.56	405.0	236.00		
07:37	6.65	0.90	0.10	3.47	22.79	470.0	3.58	406.0	226.00		

Sampling Data

Sample Information

Sample Date:	12/11/2003
Sample Start Time:	07:39
Sample End Time:	08:16
Field Filtered:	☐
Duplicate:	☐

Final Purge Readings

DO (mg/L):	3.43
Temp (*C):	23.07
SEC (uS/cm):	476.00
pH:	3.58
ORP (mV):	407.00
Turb (NTU):	207.00

Field Test Kit Readings (mg/L)

DO:	2.00	Sulfate:	0.00
CO2:	89.00	Sulfide:	0.00
Alkalinity:	0.00		
Ferrous Iron:	1.60		
H2S:	0.00		
Manganese:	0.00		

Lab Analyses/Methods:

"BTEX/MTBE, TRPH, PAHs, Nitrate/Nitrite, Orthophosphate"

Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2:	Weather: Sunny
Sampling ID: 04-41001/3:CEF-46-24D:12/10/2003		
Notes: CO2-interference		

Well Information

Well ID: **CEF-46-24D**	Sampling Date: **12/10/2003**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 78.74	Northing: 0	Easting: 0
Static Depth to Water (ft): 7.40	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 70.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 13:44	Purge End: 13:52	Total Volume Purged (gal): 0.70	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Color	Odor
13:46	7.51	0.40	0.00	0.78	26.15	202.0	3.20	319.0	21.20	clear	none
13:49	7.51	0.60	0.00	0.50	26.20	201.0	3.22	314.0	19.50		
13:52	7.51	0.70	0.05	0.34	26.16	201.0	3.23	311.0	11.80		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	12/10/2003	DO (mg/L):	0.30	DO:	0.00	Sulfate:	0.00
Sample Start Time:	13:55	Temp (*C):	26.18	CO2:	0.00	Sulfide:	0.00
Sample End Time:	14:29	SEC (uS/cm):	200.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	3.24	Ferrous Iron:	3.80		
Duplicate:	☐	ORP (mV):	308.00	H2S:	0.00		
		Turb (NTU):	9.72	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials
"BTEX/MTBE, TRPH, PAHs, Nitrate/Nitrite, Orthophosphate"	

GROUNDWATER SAMPLING LOG

TERRAINE

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1:	Technician 2: Larry Wolski	Weather: Cloudy
Sampling ID: 04-41001/3:CEF-46-25I:12/10/2003		
Notes: Interference on CO2		

Well Information

Well ID: **CEF-46-25I**	Sampling Date: **12/10/2003**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 79.17	Northing: 0	Easting: 0
Static Depth to Water (ft): 5.98	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 45.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 14:53	Purge End: 15:09	Total Volume Purged (gal): 0.50	

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
15:02	6.02	0.20	0.00	6.26	24.09	0.8	3.93	-197.0	19.60	clear	sulfuric
15:05	6.04	0.30	0.00	6.04	24.20	0.8	3.98	-206.0	18.70		
15:07	6.02	0.50	0.10	5.92	24.16	0.8	3.99	-203.0	20.90		

Sampling Data

Sample Information

Sample Date:	12/10/2003
Sample Start Time:	15:07
Sample End Time:	16:04
Field Filtered:	☐
Duplicate:	☐

Final Purge Readings

DO (mg/L):	5.82
Temp (*C):	24.15
SEC (uS/cm):	0.86
pH:	3.95
ORP (mV):	-198.00
Turb (NTU):	16.80

Field Test Kit Readings (mg/L)

DO:	0.00	Sulfate:	0.00
CO2:	0.00	Sulfide:	0.00
Alkalinity:	0.00		
Ferrous Iron:	3.50		
H2S:	5.00		
Manganese:	0.00		

Lab Analyses/Methods:

"BTEX/MTBE, Nitrate/Nitrite, Orthophosphate, PAHs, TRPH"

Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2:	Weather: "Cloudy, Cold, Sunny"
Sampling ID: 04-41001/3:CEF-46-26I:12/11/2003		
Notes: Co2-interference		

Well Information

Well ID: **CEF-46-26I**	Sampling Date: **12/11/2003**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 79.43	Northing: 0	Easting: 0
Static Depth to Water (ft): 6.65	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 40.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 09:50	Purge End: 10:05	Total Volume Purged (gal): 0.70	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Color	Odor
09:58	6.70	0.30	0.00	0.17	22.01	220.0	3.34	206.0	7.26	clear	strong HC
10:02	6.70	0.50	0.00	0.01	22.32	221.0	3.48	173.0	4.61		
10:05	6.70	0.70	0.06	0.00	22.14	222.0	3.51	157.0	3.06		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	12/11/2003	DO (mg/L):	0.00	DO:	0.00	Sulfate:	0.00
Sample Start Time:	10:05	Temp (*C):	22.18	CO2:	0.00	Sulfide:	0.00
Sample End Time:	10:30	SEC (uS/cm):	224.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	3.52	Ferrous Iron:	3.00		
Duplicate:	☐	ORP (mV):	151.00	H2S:	5.00		
		Turb (NTU):	3.02	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials
"BTEX/MTBE, TRPH, PAHs, Nitrate/Nitrite, Orthophosphate"	

GROUNDWATER SAMPLING LOG

TERRAINE

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1:	Technician 2: Larry Wolski	Weather: Sunny
Sampling ID: 04-41001/3:CEF-46-2S:12/11/2003		
Notes:		

Well Information

Well ID: **CEF-46-2S**	Sampling Date: **12/11/2003**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 79.08	Northing: 0	Easting: 0
Static Depth to Water (ft): 5.04	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 7.50
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 10:01	Purge End: 11:32	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
10:25	5.33	1.50	0.00	1.13	23.57	1.0	6.44	-236.0	10.30	orange	sulfuric
10:28	5.32	1.70	0.10	0.63	23.76	1.0	6.45	-243.0	8.49		
10:30	5.32	1.80	0.10	0.50	23.78	1.0	6.46	-253.0	7.60		
10:32	5.32	2.00	0.10	0.47	23.79	1.0	6.47	-258.0	7.23		

Sampling Data

Sample Information

Sample Date:	12/11/2003
Sample Start Time:	10:32
Sample End Time:	11:15
Field Filtered:	☐
Duplicate:	☐

Final Purge Readings

DO (mg/L):	0.40
Temp (*C):	23.85
SEC (uS/cm):	1.07
pH:	6.47
ORP (mV):	-258.00
Turb (NTU):	6.14

Field Test Kit Readings (mg/L)

DO:	0.60	Sulfate:	0.00
CO2:	218.00	Sulfide:	0.00
Alkalinity:	190.00		
Ferrous Iron:	1.00		
H2S:	1.00		
Manganese:	0.00		

Lab Analyses/Methods:

"BTEX/MTBE, Nitrate/Nitrite, Orthophosphate, PAHs, TRPH"

Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1:	Technician 2: Larry Wolski	Weather: "Cloudy, Cold"
Sampling ID: 04-41001/3:CEF-46-5I:12/11/2003		
Notes:		

Well Information

Well ID: **CEF-46-5I**	Sampling Date: **12/11/2003**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 79.18	Northing: 0	Easting: 0
Static Depth to Water (ft): 6.64	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 44.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 07:18	Purge End: 07:33	Total Volume Purged (gal): 0.80	

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
07:25	6.72	0.20	0.00	4.14	22.02	4.4	2.73	332.0	48.70	clear	none
07:27	6.71	0.40	0.00	4.05	22.32	4.4	2.81	332.0	47.30		
07:29	6.71	0.50	0.05	4.08	22.57	4.4	2.83	332.0	44.50		
07:31	0.00	0.70	0.10	4.05	22.70	4.4	2.83	331.0	38.60		
07:33	6.72	0.80	0.10	4.01	22.80	4.4	2.84	331.0	35.50		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	12/11/2003	DO (mg/L):	4.01	DO:	0.00	Sulfate:	0.00
Sample Start Time:	07:33	Temp (*C):	22.90	CO2:	568.00	Sulfide:	0.00
Sample End Time:	08:17	SEC (uS/cm):	4.48	Alkalinity:	0.00		
Field Filtered:	☐	pH:	2.84	Ferrous Iron:	6.00		
Duplicate:	☐	ORP (mV):	331.00	H2S:	0.00		
		Turb (NTU):	30.40	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials
"BTEX/MTBE, Nitrate/Nitrite, Orthophosphate, PAHs, TRPH"	

GROUNDWATER SAMPLING LOG

TERRAINE

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2:	Weather: Cloudy
Sampling ID: 04-41001/3:CEF-46-6D:12/10/2003		
Notes: Co2-Interference		

Well Information

Well ID: **CEF-46-6D**	Sampling Date: **12/10/2003**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 79.17	Northing: 0	Easting: 0
Static Depth to Water (ft): 7.30	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 65.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 15:08	Purge End: 15:17	Total Volume Purged (gal): 0.50	

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
15:09	8.80	0.20	0.00	0.49	24.43	753.0	2.72	378.0	120.00	orange	none
15:12	8.70	0.40	0.00	0.14	24.40	766.0	2.62	377.0	153.00		
15:15	8.70	0.50	0.05	0.00	24.03	806.0	2.62	376.0	159.00		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	12/10/2003	DO (mg/L):	0.00	DO:	0.80	Sulfate:	0.00
Sample Start Time:	15:17	Temp (*C):	23.95	CO2:	0.00	Sulfide:	0.00
Sample End Time:	15:58	SEC (uS/cm):	790.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	2.62	Ferrous Iron:	5.40		
Duplicate:	☐	ORP (mV):	376.00	H2S:	0.00		
		Turb (NTU):	150.00	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials
"BTEX/MTBE, TRPH, PAHs, Nitrate/Nitrite, Orthophosphate"	

GROUNDWATER SAMPLING LOG

TERRAINE

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1:	Technician 2: Larry Wolski	Weather: Sunny
Sampling ID: 04-41001/3:CEF-46-7I:12/11/2003		
Notes:		

Well Information

Well ID: **CEF-46-7I**	Sampling Date: **12/11/2003**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 79.02	Northing: 0	Easting: 0
Static Depth to Water (ft): 5.84	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 24.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 11:30	Purge End: 11:50	Total Volume Purged (gal): 0.60	

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
11:39	6.74	0.20	0.00	1.89	21.67	0.1	5.30	-148.0	57.70	yellow	slight HC
11:42	6.79	0.30	0.00	1.20	22.59	0.1	5.26	-151.0	79.20		
11:44	6.83	0.40	0.05	0.96	22.90	0.1	5.23	-156.0	91.70		
11:47	6.85	0.50	0.05	0.80	23.00	0.1	5.21	-162.0	104.00		
11:50	6.86	0.60	0.03	0.70	23.07	0.1	5.20	-166.0	114.00		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	12/11/2003	DO (mg/L):	0.67	DO:	0.00	Sulfate:	0.00
Sample Start Time:	11:50	Temp (*C):	23.07	CO2:	70.00	Sulfide:	0.00
Sample End Time:	12:44	SEC (uS/cm):	0.18	Alkalinity:	25.00		
Field Filtered:	☐	pH:	5.19	Ferrous Iron:	3.70		
Duplicate:	☐	ORP (mV):	-170.00	H2S:	2.00		
		Turb (NTU):	119.00	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials
"BTEX/MTBE, Nitrate/Nitrite, Orthophosphate, PAHs, TRPH"	

GROUNDWATER SAMPLING LOG

TERRAINE

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1:	Technician 2: Larry Wolski	Weather: Cloudy
Sampling ID: 04-41001/3:CEF-46-9I:12/10/2003		
Notes: interferenceon the CO2		

Well Information

Well ID: **CEF-46-9I**	Sampling Date: **12/10/2003**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 79.05	Northing: 0	Easting: 0
Static Depth to Water (ft): 5.79	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 43.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 13:45	Purge End: 13:59	Total Volume Purged (gal): 0.40	

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
13:53	5.80	0.20	0.00	5.89	26.17	0.9	3.56	-95.0	18.30	clear	sulfuric
13:55	5.81	0.30	0.00	5.99	26.22	0.9	3.60	-94.0	13.90		
13:57	5.81	0.40	0.10	6.01	26.28	0.9	3.63	-96.0	12.50		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	12/10/2003	DO (mg/L):	6.21	DO:	0.00	Sulfate:	0.00
Sample Start Time:	13:59	Temp (*C):	26.29	CO2:	0.00	Sulfide:	0.00
Sample End Time:	14:40	SEC (uS/cm):	1.01	Alkalinity:	0.00		
Field Filtered:	☐	pH:	3.64	Ferrous Iron:	5.20		
Duplicate:	☐	ORP (mV):	-100.00	H2S:	0.50		
		Turb (NTU):	9.96	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials
"BTEX/MTBE, Nitrate/Nitrite, Orthophosphate, PAHs, TRPH"	