N60200.AR.003750
NAS CECIL FIELD, FL
5090.3a

"SECOND QUARTER 2003 OPERATION AND MAINTENANCE STATUS REPORT FOR NUTRIENT INJECTION SYSTEM AT BUILDING 46 FORMER TANKS 46R, 46D, 46SUL AND 46UL NAS CECIL FIELD FL"
11/1/2003
TERRAINE INC ENVIRONMENTAL SERVICES

TERRAINE, inc.
ENVIRONMENTAL SERVICES

WWW.TERRAINE.COM
(305) 513-4902 FAX

Knoxville TN
Charlotte NC
Miami FL
Jacksonville FL
Charleston SC
Dallas TX

7380 PHILLIPS HWY, SUITE 106 JACKSONVILLE, FL 32256 (904) 296-6001

SECOND QUARTER 2003
Operation and Maintenance Status Report
April 1, 2003 – June 30, 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

Prepared by:

TERRAINE, inc.
ENVIRONMENTAL SERVICES
7380 Phillips Highway . Suite 106 . Jacksonville, Florida . 32256

November 2003

Contents

Signature Page ..... **i**
Acronym List ..... **ii**
1.0 Introduction **1-1**
1.1 Objective 1-1
1.2 Site History 1-1
1.3 Remediation System/Technology Description 1-2
2.0 System Performance Monitoring **2-1**
2.1 Operational Efficiencies 2-1
2.1.1 West - Nutrient Injection System 2-1
2.1.2 East - Nutrient Injection System 2-1
2.2 Summary of Maintenance and System Downtime 2-1
2.2.1 West - Nutrient Injection System 2-1
2.2.2 East - Nutrient Injection System 2-2
2.3 Pressure/Flow Rate Monitoring 2-2
2.3.1 West - Nutrient Injection System 2-2
2.3.2 East - Nutrient Injection System 2-2
2.4 Water-Level Measurements 2-3
3.0 Summary of Sampling and Laboratory Analytical Results **3-1**
3.1 Soil Monitoring 3-1
3.2 Groundwater Monitoring 3-2
4.0 Conclusions and Recommendations **4-1**
5.0 References **5-1**

Figures

1-1 Injection Well Location & Site Map 1-3

Tables

2-1 West System - Injection Well Measurements 2-4
2-2 West System - Injection System Data 2-10
2-3 East System - Injection Well Measurements 2-11
2-4 East System - Injection System Data 2-21
2-5 Groundwater Monitoring Well – Water Level & Free Product Data 2-22
3-1 Soil Analytical Results 3-3
3-2 Groundwater Analytical Results 3-4
3-3 Groundwater Field Analytical Results 3-11

Appendices

A Laboratory Analytical Reports for Soil Samples (on CD only)
B Laboratory Analytical Reports for Groundwater Samples (on CD only)
C 2nd Quarter 2003 Groundwater Sampling Logs

D 2nd Quarter 2003 Site Visit Reports

Signature Page

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

James L. Young, P.G., REM President/CEO TERRAINE, Inc	11-17-03 Date	PG-FL2090, REM-6089 Registration Nos.

JAMES L YOUNG
LICENSE
NO. 2090
STATE OF
FLORIDA
PROFESSIONAL GEOLOGIST

Acronym List

acfh	actual cubic feet per hour
acfm	actual cubic feet per minute
bls	below land surface
BTEX	Benzene, Toluene, Ethyl Benzene, and Xylenes
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 Levels
HLA	Harding Lawson Associates
LNAPL	Light Non-Aqueous Phase Liquid
MTBE	Methyl-Tert Butyl Ether
NAS	Naval Air Station
NAVFAC	Naval Facilities Engineering Command
O&M	Operation and Maintenance
OVA	Organic Vapor Analyzer
PAH	Polycyclic Aromatic Hydrocarbons
psig	pounds per square inch gauge
SAR	Site Assessment Report
SCTL	Soil Cleanup Target Levels
TEP	Triethylphosphate
TERRAINE	Terraine Environmental Services, Inc.
TRPH	Total Recoverable Petroleum Hydrocarbons
TtNUS	TetraTech 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 (Southern Division, NAVFAC), to provide Operation and Maintenance (O&M) services at Building 46, NAS Cecil Field, Jacksonville, Florida, under the **Response Action Contract No. N62467-02-G-0352, Contract Task Order (CTO) No. 0001**. The purpose of this Second Quarter 2003 O&M Report is to provide a summary of activities performed at the site during the period of April 1, 2003, to June 30, 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. Toward 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. The locations of the injection wells are shown on **Figure 1-1**.

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.

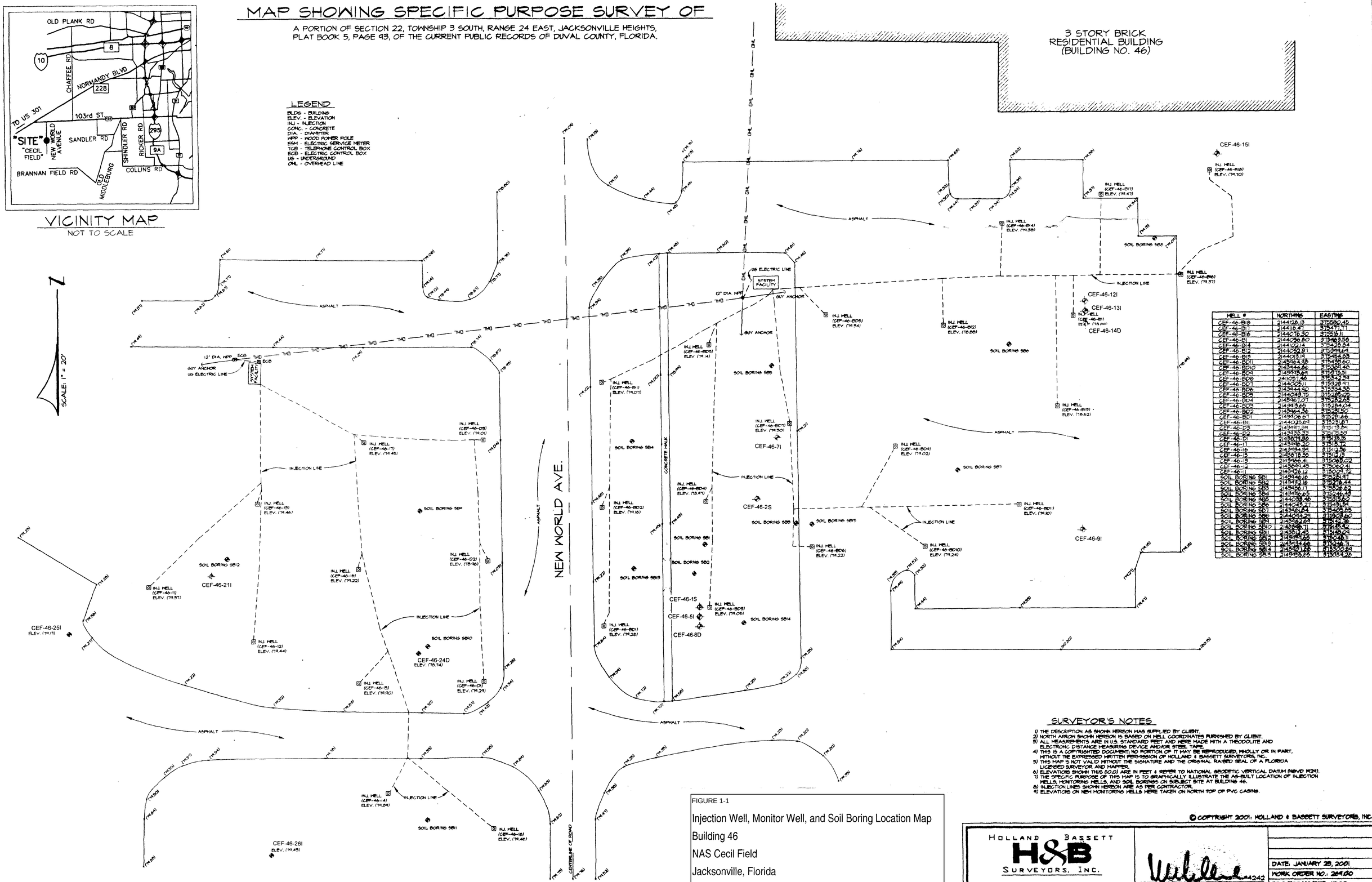
VICINITY MAP

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

SCALE: 1" = 20'



WELL #	NORTHING	EASTING
CEF-46-B16	2144128.13	375580.45
CEF-46-B17	2144116.47	375471.17
CEF-46-B16	2144016.30	375518.11
CEF-46-B1	2144036.80	375463.56
CEF-46-B14	2144029.14	375420.84
CEF-46-B12	2144052.57	375348.64
CEF-46-B18	2144018.19	375454.83
CEF-46-B21	2143964.36	375430.60
CEF-46-B10	2143944.86	375391.46
CEF-46-B09	2143918.49	375418.51
CEF-46-B08	2143857.46	375342.54
CEF-46-B01	2144005.11	375328.43
CEF-46-B06	2143944.90	375332.36
CEF-46-B05	2144043.75	375286.02
CEF-46-B04	2143967.07	375282.08
CEF-46-B03	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-D1	2143978.36	375119.75
CEF-46-I1	2143948.40	375116.46
CEF-46-I6	2143934.93	375112.56
CEF-46-I5	2143978.55	375112.13
CEF-46-I3	2143966.41	375065.02
CEF-46-I2	2143949.45	375060.41
CEF-46-I1	2143926.12	375059.12
SOIL BORING SB1	2143946.16	375261.47
SOIL BORING SB2	2143933.16	375218.44
SOIL BORING SB3	2143956.13	375242.22
SOIL BORING SB4	2143966.65	375245.48
SOIL BORING SB5	2144028.46	375310.67
SOIL BORING SB6	2144049.47	375315.81
SOIL BORING SB7	2143982.24	375265.05
SOIL BORING SB8	2144014.24	375308.80
SOIL BORING SB9	2143962.69	375229.36
SOIL BORING SB10	2143958.71	375218.42
SOIL BORING SB11	2143914.49	375145.04
SOIL BORING SB12	2143958.42	375048.11
SOIL BORING SB13	2143931.48	375038.71
SOIL BORING SB14	2143901.28	375030.84
SOIL BORING SB15	2143936.85	375034.32

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.

© COPYRIGHT 2001: HOLLAND & BASSETT SURVEYORS, INC.

FIGURE 1-1

Injection Well, Monitor Well, and Soil Boring Location Map

Building 46

NAS Cecil Field

Jacksonville, Florida

HOLLAND BASSETT
H&B
SURVEYORS, INC.
7801 ALTON AVENUE TEL(904) 805-4646
JACKSONVILLE, FLORIDA 32211 FAX(904) 805-4647
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.: 264100
PROJECT NUMBER: 17100
SHEET 1 OF 1
DRAWING NO.: D-17100

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 also performed daily during the first week of operation and periodically thereafter to coincide with the O&M checks.

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:	2,184	14,856
Hours of Actual Operation:	1,944	12,695
Percent Hours of Operation:	89.0	85.5

2.1.2 East - Nutrient Injection System

	Period	To Date
Hours of Possible Operation:	2,184	14,856
Hours of Actual Operation:	1,944	12,0116.2
Percent Hours of Operation:	89.0	80.9

2.2 Summary of Maintenance and System Downtime

2.2.1 West - Nutrient Injection System

During the period of April 1, 2003 through June 30, 2003, the West Nutrient Injection System operated a total of 81 days out of a possible 91days, experiencing 240 hours of downtime. The system downtime was the result of manually shutting down the system for depressurization to allow for well repair (291 hours) and to perform the second quarter 2003 groundwater-sampling event and data collection (120 hours).

2.2.2 East - Nutrient Injection System

During the period of April 1, 2003 through June 30, 2003, the East Nutrient Injection System operated a total of 81 days out of a possible 91 days, experiencing 240 hours of downtime. The system downtime was the result of manually shutting down the system to perform the second quarter 2003 groundwater-sampling event and data collection.

2.3 Pressure/Flow Rate Monitoring

2.3.1 West - Nutrient Injection System

The ***West*** Nutrient 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 second quarter of 2003, the injection pressure at the compressors averaged 35.0 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 8.0 actual cubic feet per minute (acfm) for Leg #1 and 6.0 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 0.5 actual cubic feet per hour (acfh), which is 0.03 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 triethylphosphate (TEP) injection mass for the second quarter of 2003 totaled 17.8 pounds. The design injection mass is 24.75 pounds per quarter. The data for the injection wells and injection system are tabulated on **Table 2-1** and **Table 2-2**, respectively.

2.3.2 East - Nutrient Injection System

The ***East*** Nutrient 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 second quarter of 2003, the injection pressure at the compressors averaged 70.0 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 10.0 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 1.5 acfh, which is 0.07 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 second quarter of 2003 totaled 16.02 pounds, compared to the design injection mass of

42.75 pounds per quarter. The data for the injection wells and injection systems are provided on **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. Depth-to-water measurements for the second quarter 2003 were recorded on June 4, 5 and 9, 2003. The top-of-casing elevations, depth-to-water measurements, and calculated water-level elevations are provided on **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	01/19/01	50	2.75
(Leg #1)	02/28/01	50	NA
	03/30/01	50	NA
	04/13/01	25	2
	05/10/01	25	2
	06/07/01	25	2
	07/02/01	25	2
	08/06/01	25	2
	09/11/01	25	2
	10/03/01	0	0
	11/12/01	0	0
	12/11/01	0	0
	01/11/02	0	0
	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
CEF-46-I2	01/19/01	50	2.75
(Leg #1)	02/28/01	50	NA
	03/30/01	50	NA
	04/13/01	25	2
	05/10/01	25	2
	06/07/01	25	2
	07/02/01	25	2
	08/06/01	25	2
	09/11/01	25	2
	10/03/01	50	3
	11/12/01	50	3
	12/11/01	50	3
	01/11/02	50	3
	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	0
	05/28/03	25	0
	06/26/03	25	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-I3	01/19/01	50	2.75
(Leg #1)	02/28/01	50	NA
	03/30/01	50	NA
	04/13/01	25	2
	05/10/01	25	2
	06/07/01	25	2
	07/02/01	25	2
	08/06/01	25	2
	09/11/01	25	2
	10/03/01	0	0
	11/12/01	0	0
	12/11/01	0	0
	01/11/02	0	0
	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
CEF-46-I4	01/19/01	50	2.75
(Leg #1)	02/28/01	100	NA
	03/30/01	50	NA
	04/13/01	25	2
	05/10/01	25	2
	06/07/01	25	2
	07/02/01	25	2
	08/06/01	25	2
	09/11/01	25	2
	10/03/01	50	3
	11/12/01	50	3
	12/11/01	50	3
	01/11/02	50	3
	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	0
	05/28/03	25	0
	06/26/03	25	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-I5	01/19/01	100	2.75
(Leg #1)	02/28/01	50	NA
	03/30/01	100	NA
	04/13/01	25	2
	05/10/01	2	2
	06/07/01	2	2
	07/02/01	5	2
	08/06/01	25	2
	09/11/01	25	2
	10/03/01	25	3
	11/12/01	25	3
	12/11/01	25	3
	01/11/02	25	3
	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	0
	05/28/03	25	0
	06/26/03	25	0
CEF-46-I6	01/19/01	40	2.5
(Leg #2)	02/28/01	25	NA
	03/30/01	25	NA
	04/13/01	25	2
	05/10/01	25	2
	06/07/01	25	2
	07/02/01	25	2
	08/06/01	50	3
	09/11/01	50	2
	10/03/01	60	3
	11/12/01	60	3
	12/11/01	60	3
	01/11/02	60	3
	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	0
	05/28/03	25	0
	06/26/03	25	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-I7	01/19/01	40	2.5
(Leg #2)	02/28/01	100	NA
	03/30/01	25	NA
	04/13/01	25	2
	05/10/01	25	2
	06/07/01	25	2
	07/02/01	25	2
	08/06/01	25	2
	09/11/01	25	2
	10/03/01	0	0
	11/12/01	0	0
	12/11/01	0	0
	01/11/02	0	0
	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
CEF-46-I8	01/19/01	50	2.75
(Leg #1)	02/28/01	25	NA
	03/30/01	50	NA
	04/13/01	25	2
	05/10/01	5	2
	06/07/01	5	2
	07/02/01	5	2
	08/06/01	25	2
	09/11/01	25	2
	10/03/01	60	3
	11/12/01	60	3
	12/11/01	60	3
	01/11/02	60	3
	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	0
	05/28/03	25	0
	06/26/03	25	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-D1	01/19/01	100	2.5
(Leg #2)	02/28/01	100	NA
	03/30/01	100	NA
	04/13/01	100	2
	05/10/01	100	2
	06/07/01	100	2
	07/02/01	100	2
	08/06/01	100	4
	09/11/01	100	2
	10/03/01	100	2
	11/12/01	100	2
	12/11/01	100	2
	01/11/02	100	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	0
	05/28/03	100	0
	06/26/03	100	0
CEF-46-D2	01/19/01	60	2.5
(Leg #2)	02/28/01	100	NA
	03/30/01	100	NA
	04/13/01	75	2
	05/10/01	100	2
	06/07/01	100	2
	07/02/01	100	2
	08/06/01	100	4
	09/11/01	100	2
	10/03/01	100	2
	11/12/01	100	2
	12/11/01	100	2
	01/11/02	100	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	0
	05/28/03	100	0
	06/26/03	100	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-D3	01/19/01	60	2.5
(Leg #2)	02/28/01	100	NA
	03/30/01	100	NA
	04/13/01	50	2
	05/10/01	100	2
	06/07/01	100	2
	07/02/01	100	2
	08/06/01	100	4
	09/11/01	100	2
	10/03/01	0	0
	11/12/01	0	0
	12/11/01	0	0
	01/11/02	0	0
	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

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	0	0.5	0.00
05/28/03	35	0	0.5	9.79
06/26/03	35	0	0.5	8.01

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	01/19/01	100	1.5
(Leg #2)	02/28/01	100	NA
	03/30/01	100	NA
	04/13/01	25	NA
	05/10/01	25	2
	06/07/01	25	2
	07/02/01	5	1
	08/06/01	0	0
	09/11/01	0	0
	10/03/01	0	0
	11/12/01	0	0
	12/11/01	0	0
	01/11/02	0	0
	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
CEF-46-BI2	01/19/01	100	1.75
(Leg #1)	02/28/01	100	NA
	03/30/01	100	NA
	04/13/01	25	NA
	05/10/01	25	0.5
	06/07/01	25	0.5
	07/02/01	5	1
	08/06/01	25	2
	09/11/01	25	0.5
	10/03/01	0	0
	11/12/01	0	0
	12/11/01	0	0
	01/11/02	0	0
	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

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-BI3	01/19/01	100	1.75
(Leg #1)	02/28/01	100	NA
	03/30/01	100	NA
	04/13/01	25	NA
	05/10/01	25	1.5
	06/07/01	25	1.5
	07/02/01	5	1
	08/06/01	0	0
	09/11/01	0	0
	10/03/01	40	2
	11/12/01	40	2
	12/11/01	40	4
	01/11/02	100	4
	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	0
	05/28/03	100	0
	06/26/03	100	0
CEF-46-BI4	01/19/01	100	1.75
(Leg #1)	02/28/01	100	NA
	03/30/01	100	NA
	04/13/01	25	NA
	05/10/01	25	1.75
	06/07/01	25	1.75
	07/02/01	5	1
	08/06/01	0	0
	09/11/01	50 *	1.5
	10/03/01	0	0
	11/12/01	0	0
	12/11/01	20	4
	01/11/02	20	4
	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

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-BI5	01/19/01	100	1.75
(Leg #1)	02/28/01	100	NA
	03/30/01	100	NA
	04/13/01	25	NA
	05/10/01	25	1.75
	06/07/01	25	1.75
	07/02/01	5	1
	08/06/01	0	0
	09/11/01	0	0
	10/03/01	0	0
	11/12/01	0	0
	12/11/01	20	4
	01/11/02	100	4
	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	0
	05/28/03	100	0
	06/26/03	100	0
CEF-46-BI6	01/19/01	100	1.75
(Leg #1)	02/28/01	100	NA
	03/30/01	100	NA
	04/13/01	25	NA
	05/10/01	25	2
	06/07/01	25	2
	07/02/01	5	1
	08/06/01	0	0
	09/11/01	0	0
	10/03/01	40	2
	11/12/01	40	2
	12/11/01	40	4
	01/11/02	100	4
	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	0
	05/28/03	100	0
	06/26/03	100	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-BI7	01/19/01	100	1.75
(Leg #1)	02/28/01	100	NA
	03/30/01	100	NA
	04/13/01	25	NA
	05/10/01	25	2
	06/07/01	25	2
	07/02/01	5	1
	08/06/01	0	0
	09/11/01	0	0
	10/03/01	40	2
	11/12/01	40	2
	12/11/01	40	4
	01/11/02	100	4
	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	0
	05/28/03	100	0
	06/26/03	100	0
CEF-46-BI8	01/19/01	100	1.75
(Leg #1)	02/28/01	100	NA
	03/30/01	100	NA
	04/13/01	25	NA
	05/10/01	25	2
	06/07/01	25	2
	07/02/01	5	1
	08/06/01	0	0
	09/11/01	0	0
	10/03/01	0	0
	11/12/01	0	0
	12/11/01	0	0
	01/11/02	0	0
	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

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-BD1	01/19/01	100	1.5
(Leg #2)	02/28/01	100	NA
	03/30/01	100	NA
	04/13/01	100	3
	05/10/01	100	2.5
	06/07/01	100	2.5
	07/02/01	100	3
	08/06/01	35	3
	09/11/01	35	1.5
	10/03/01	100	1.5
	11/12/01	100	1.5
	12/11/01	100	3
	01/11/02	100	3
	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	0
	05/28/03	100	0
	06/26/03	100	0
CEF-46-BD2	01/19/01	100	1.5
(Leg #2)	02/28/01	100	NA
	03/30/01	100	NA
	04/13/01	100	2
	05/10/01	100	2
	06/07/01	100	2
	07/02/01	100	3
	08/06/01	100	4
	09/11/01	100	2
	10/03/01	100	2
	11/12/01	100	2
	12/11/01	100	4
	01/11/02	100	4
	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	0
	05/28/03	100	0
	06/26/03	100	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-BD3	01/19/01	100	1.5
(Leg #2)	02/28/01	100	NA
	03/30/01	100	NA
	04/13/01	100	3
	05/10/01	100	2
	06/07/01	100	2
	07/02/01	100	3
	08/06/01	100	4
	09/11/01	100	2.5
	10/03/01	100	2
	11/12/01	100	2
	12/11/01	50	2
	01/11/02	50	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	0
	05/28/03	100	0
	06/26/03	100	0
CEF-46-BD4	01/19/01	100	1.5
(Leg #2)	02/28/01	100	NA
	03/30/01	100	NA
	04/13/01	100	3
	05/10/01	100	2.5
	06/07/01	100	2.5
	07/02/01	100	3
	08/06/01	35	3
	09/11/01	35	2.5
	10/03/01	100	2
	11/12/01	100	2
	12/11/01	100	4
	01/11/02	100	4
	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	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	0
	05/28/03	50	0
	06/26/03	50	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-BD5	01/19/01	100	1.5
(Leg #2)	02/28/01	100	NA
	03/30/01	100	NA
	04/13/01	100	3
	05/10/01	100	2
	06/07/01	100	2
	07/02/01	100	3
	08/06/01	35	3
	09/11/01	35	2.5
	10/03/01	100	2
	11/12/01	100	2
	12/11/01	100	4
	01/11/02	100	4
	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
CEF-46-BD6	01/19/01	100	1.5
(Leg #2)	02/28/01	100	NA
	03/30/01	100	NA
	04/13/01	100	2
	05/10/01	100	2
	06/07/01	100	2
	07/02/01	100	3
	08/06/01	35	3
	09/11/01	35	2.5
	10/03/01	100	2
	11/12/01	35	2
	12/11/01	35	4
	01/11/02	35	4
	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	0
	05/28/03	40	0
	06/26/03	40	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-BD7	01/19/01	100	1.5
(Leg #2)	02/28/01	100	NA
	03/30/01	100	NA
	04/13/01	100	2
	05/10/01	100	1.5
	06/07/01	100	1.5
	07/02/01	100	3
	08/06/01	100	4
	09/11/01	100	2
	10/03/01	100	2
	11/12/01	100	2
	12/11/01	100	4
	01/11/02	100	4
	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	0
	05/28/03	40	0
	06/26/03	40	0
CEF-46-BD8	01/19/01	100	1.5
(Leg #2)	02/28/01	100	NA
	03/30/01	100	NA
	04/13/01	100	3
	05/10/01	100	2
	06/07/01	100	2
	07/02/01	100	3
	08/06/01	0	0
	09/11/01	0	0
	10/03/01	0	0
	11/12/01	0	0
	12/11/01	0	0
	01/11/02	0	0
	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

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-BD9	01/19/01	100	1.75
(Leg #1)	02/28/01	100	NA
	03/30/01	100	NA
	04/13/01	100	2.5
	05/10/01	25	2
	06/07/01	25	2
	07/02/01	50	1
	08/06/01	10	1
	09/11/01	10	1
	10/03/01	0	0
	11/12/01	0	0
	12/11/01	0	0
	01/11/02	0	0
	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
CEF-46-BD10	01/19/01	100	1.75
(Leg #1)	02/28/01	100	NA
	03/30/01	100	NA
	04/13/01	100	2
	05/10/01	100	1
	06/07/01	100	1
	07/02/01	100	3
	08/06/01	25	2
	09/11/01	25	1
	10/03/01	0	0
	11/12/01	0	0
	12/11/01	0	0
	01/11/02	0	0
	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

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	01/19/01	100	1.75
(Leg #1)	02/28/01	100	NA
	03/30/01	100	NA
	04/13/01	100	2
	05/10/01	100	1
	06/07/01	100	1
	07/02/01	100	3
	08/06/01	35	3
	09/11/01	35	1.5
	10/03/01	0	0
	11/12/01	0	0
	12/11/01	0	0
	01/11/02	0	0
	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

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

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
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

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
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

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
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
		3./14/03		No Product	2.55	76.50
		06/04/03		No Product	4.10	74.95

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
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

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
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

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
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

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
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

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 June 9, 2003. Three soil borings, labeled as 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 samples was collected for laboratory analysis at 4 feet below land surface (bls) from all three borings. The corresponding OVA/FID results are presented below. The water table was encountered at 5 feet bls.

Date	Soil Boring No.	Depth (feet bls)	OVA/FID Unfiltered	OVA/FID Filtered	OVA/FID Net
06/09/03	SB-1	4	1000	660	340
06/09/03	SB-2	4	1000	250	750
06/09/03	SB-14	4	210	210	0

The laboratory soil samples were analyzed for BTEX and MTBE using United States Environmental Protection Agency (EPA) Method 8021B, Naphthalene and Polycyclic Aromatic Hydrocarbons (PAH) using EPA Method 8270C-SIM, and Total Recoverable Petroleum Hydrocarbons (TRPH) using the Florida Petroleum Residual Organic (FL PRO) Method. The results from the soil screenings are as follows:

- Soil sample results collected on June 9, 2003 from SB-1 and SB-2 indicate decreasing concentrations of BTEX, MTBE, Naphthalene, and TRPH in comparison to the baseline soil-sampling event conducted during the first quarter of 2001 on January 4, 2001.
- Soil sample results from SB-14 indicate increasing concentrations of BTEX, Naphthalene and TRPH in comparison to the baseline soil-sampling event.
- Soil sample results from SB-1 indicate Benzene, Ethyl Benzene and Xylene concentration levels that exceed the Leachability and/or Direct Exposure Residential Soil Cleanup Target Levels (SCTL) per Chapter 62-777 FAC.
- Soil sample results from SB-2 indicate Benzene, Ethyl Benzene, Xylene and Naphthalene concentration levels that exceed SCTL.
- Soil sample results from SB-14 indicate Benzene, Naphthalene and TRPH concentration levels that exceed SCTL.

The locations of the soil borings are shown on **Figure 1-1**. Copies of the analytical laboratory report from the soil-sampling event are provided in **Appendix A**, and analytical results are summarized on **Table 3-1**.

3.2 Groundwater Monitoring

Groundwater from fourteen monitoring wells (designated as: 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-46-26I0) was sampled during the second quarter 2003 monitoring period on June 4 and 5, 2003. The samples were analyzed for BTEX and MTBE using EPA Method 8021B, Naphthalene and PAH using EPA Method 8270C-SIM, TRPH using FL PRO Method, and Nitrate and Nitrite using EPA Method 300.0, and Phosphate using EPA method 365.2. The baseline-sampling event, conducted December 20, 2000, revealed that samples from seven of the 14 wells had contaminant-concentrations above the Groundwater Cleanup Target Levels (GCTL) per Chapter 62-777 FAC. For the second quarter of 2003, the results of the groundwater-treatment are as follows:

- Groundwater samples from five wells (CEF-46-1S, CEF-46-2S, CEF-467I, CEF-4613I and CEF-46-26I) show contaminant levels exceeding GCTL.
- Groundwater samples from two of the five wells above (CEF-46-2S and CEF-46-7I) indicate decreased contaminant concentrations compared to the baseline-sampling event conducted on December 20, 2000.
- Groundwater samples from CEF-46-1S indicate increased concentrations of Naphthalene compared to the baseline sampling event, increased concentrations of MTBE compared to the January 25, 2001 sampling event, and increased concentrations of 1-Methylnaphthalene and 2-Methylnaphthalene compared to the March 21, 2001 sampling event.
- Groundwater samples from CEF-46-26I indicate increased concentrations of xylene compared to the baseline-sampling event.
- Groundwater samples from CEF-46-13I indicate increased concentrations of benzene compared to the baseline-sampling event.

The locations of the monitoring wells are shown on **Figure 1-1**. Copies of the analytical laboratory reports from the groundwater sampling-events are provided in **Appendix B**, and analytical results are summarized on **Table 3-2**.

Field analytical tests were performed on groundwater samples from each of 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 on **Table 3-3**.

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
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
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
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
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

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
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

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	1605	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
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

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
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

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	<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
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

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
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

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

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)
CEF-46-5I	12/21/00	5.60	0.140	1.10	23.2	183	100	1.8	1.0
	01/25/01	6.17	0.157	1.51	23.7	360	200	1.6	0.1
	02/01/01	5.78	0.123	0.63	24.7	160	100	2.0	0.1
	02/08/01	6.50	0.450	1.20	25.0	110	100	4.5	0.0
	02/15/01	5.90	0.240	2.40	24.0	140	60	4.0	0.1
	02/22/01	5.50	0.290	1.30	24.0	86	40	4.1	0.0
	03/08/01	5.67	0.340	3.12	24.3	160	40	3.2	0.0
	03/21/01	5.30	0.370	2.10	24.0	140	20	3.6	0.5
	04/18/01	4.80	0.520	0.40	24.0	230	20	3.4	1.0
	05/02/01	4.70	0.480	1.10	24.0	300	100	2.4	0.1
	06/29/01	3.22	2.380	NR	24.6	400	100	4.0	0.0
	07/25/01	NR	NR	NR	NR	NR	NR	NR	NR
	08/21/01	NR	3.590	NR	27.1	340	20	7.4	0.0
	09/18/01	3.02	3.440	0.47	25.6	>1000	20	7.0	0.0
	10/23/01	5.05	5.930	1.34	25.7	500	20	8.0	0.1
	11/15/01	3.81	6.280	0.71	25.2	>1000	20	80.0	0.0
	12/18/01	2.00	6.200	1.60	25.5	NR	20	6.4	0.0
	03/19/02	2.18	8.640	1.64	26.6	600	20	9.0	0.0
	06/06/02	2.70	6.180	1.12	27.4	>1000	20	10.0	0.1
	09/18/02	2.27	6.820	0.97	26.8	670	20	10+	0.0
	12/12/02	2.69	NR	0.33	25.8	1000	0	8.0	0.1
	03/14/03	3.54	5.810	2.05	25.23	0	0	4.2	0
	06/05/03	2.00	4.840	0.23	26.92	Interference	0	9.9	0
CEF-46-6D	12/21/00	9.71	0.180	6.51	23.5	8	120	0.4	0.3
	02/08/01	5.90	0.570	1.30	24.0	240	40	2.4	0.0
	02/15/01	6.10	0.680	2.00	24.0	220	40	3.6	0.1
	02/22/01	6.30	0.660	0.40	23.0	180	80	3.5	0.1
	03/08/01	6.55	0.623	3.05	20.3	200	80	2.0	0.0
	03/21/01	6.30	0.620	1.80	20.0	180	60	3.8	0.1
	04/18/01	6.20	0.640	1.60	21.0	140	60	1.8	0.0
	05/02/01	6.30	0.620	1.90	23.0	200	60	4.4	0.0
	06/29/01	3.78	3.380	NR	25.2	400	60	4.4	0.2
	07/25/01	6.83	2.430	3.19	26.7	360	20	6.0	0.0
	08/21/01	NR	6.050	NR	27.3	>1000	20	8.0	0.0
	09/18/01	2.74	7.040	0.19	25.4	300	20	6.5	0.0
	10/23/01	4.92	5.890	0.76	26.1	500	20	6.2	0.0
	11/15/01	3.80	7.770	1.76	24.8	>1000	20	10.0	0.0
	12/18/01	2.00	6.510	0.07	24.6	NR	20	7.0	0.0
	03/19/02	2.65	7.400	1.85	26.0	600	20	7.0	0.1
	06/06/02	3.06	6.230	1.65	26.8	>1000	20	10.0	0.0
	09/18/02	2.88	7.760	0.80	25.7	1000+	20	10+	0.0
	12/12/02	2.81	NR	NR	24.8	NR	NR	NR	NR
	03/14/03	3.23	8.600	2.64	25.71	0	0	4.2	0
	06/09/03	2.69	9.740	0.09	27.97	Interference	0	7	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)
CEF-46-7I	12/21/00	4.90	0.510	1.11	25.4	317	60	0.6	0.3
	02/22/01	5.10	0.100	2.80	24.0	180	60	4.6	0.1
	03/08/01	5.62	0.061	3.62	21.6	160	60	1.0	5.0
	03/21/01	5.30	0.070	2.70	21.0	220	40	1.0	5.0
	04/18/01	5.50	0.070	0.60	22.0	200	80	2.0	0.0
	05/02/01	4.40	0.100	1.50	23.0	NR	NR	NR	NR
	06/29/01	NR	NR	NR	NR	NR	NR	NR	NR
	07/25/01	NR	NR	NR	NR	NR	NR	NR	NR
	08/20/01	5.35	1.260	0.05	25.8	300	80	4.5	0.0
	09/18/01	4.33	0.174	1.19	25.3	100	20	3.4	0.1
	10/24/01	5.10	0.713	2.11	25.0	280	20	3.8	0.0
	11/15/01	5.14	0.130	0.46	25.5	100	40	2.8	0.5
	12/18/01	2.00	1.850	1.75	24.4	NR	20	5.0	0.0
	03/19/02	2.69	2.650	1.81	26.0	>1000	20	4.0	0.0
	06/06/02	2.65	2.920	2.83	25.6	>1000	20	3.6	0.0
	09/17/02	2.97	1.400	0.51	26.8	>1000	20	10+	0.1
	12/13/02	3.52	NR	0.15	25.4	110	0	4.0	0.1
	03/14/03	3.23	0.250	5.24	23.41	121	0	1.8	0
	06/09/03	3.80	0.191	1.05	26.12	233	0	2.2	0
CEF-46-9I	12/20/00	5.29	0.079	1.47	24.6	84.6	20	0.8	0.3
	01/25/01	5.06	0.068	1.70	25.1	140	60	0.6	0.1
	02/01/01	5.18	0.079	1.99	25.5	140	60	1.0	0.2
	02/07/01	5.00	0.070	1.70	25.0	120	40	0.6	0.2
	02/14/01	5.00	0.070	2.20	25.0	160	40	0.8	0.3
	02/22/01	5.00	0.070	2.30	25.0	110	20	0.7	0.2
	03/08/01	5.04	0.069	1.43	24.9	80	20	0.2	0.0
	03/21/01	5.00	0.070	3.00	25.0	160	20	0.2	0.1
	04/18/01	4.60	0.040	0.70	26.0	140	20	0.8	0.3
	05/02/01	4.40	0.070	1.90	25.0	120	40	0.6	0.5
	06/29/01	4.73	0.690	NR	25.3	90	20	0.6	0.3
	07/25/01	5.12	0.068	2.18	25.5	180	20	0.0	0.3
	08/20/01	4.87	0.073	0.05	26.4	80	20	0.6	0.2
	09/18/01	4.84	0.095	0.77	25.2	150	20	0.6	0.5
	10/23/01	6.24	0.060	0.34	25.8	120	20	0.8	0.2
	11/15/01	5.50	0.060	1.08	24.9	90	20	1.0	0.5
	12/18/01	5.00	0.060	1.61	24.9	120	20	1.0	0.3
	03/19/02	5.01	0.720	1.73	25.3	120	20	0.2	0.2
	06/06/02	4.86	0.074	0.99	26.1	100	20	0.4	0.5
	09/17/02	4.32	0.279	0.55	26.5	880	20	10+	0.3
	12/12/02	3.88	NR	0.18	25.5	330	80	7.0	0.3
	03/14/03	5.47	0.914	1.35	25.40	0	0	2.2	1
	06/04/03	4.75	1.09	0.60	25.73	Interference	0	6	1

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

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)
CEF-46-14D	12/20/00	5.87	0.109	1.52	24.9	84	540	2.4	0.3
	01/24/01	5.77	0.093	1.63	23.4	70	160	2.2	0.5
	02/01/01	5.78	0.099	0.58	25.8	140	100	2.4	0.7
	02/07/01	5.60	0.090	0.60	`	140	40	2.2	0.5
	02/14/01	5.70	0.090	1.60	25.0	110	60	2.4	0.7
	02/22/01	5.60	0.100	0.60	25.0	100	60	1.8	0.5
	03/08/01	6.03	0.098	3.54	23.2	120	20	2.0	2.0
	03/21/01	5.80	0.100	2.20	24.0	100	40	2.0	1.0
	04/18/01	5.40	0.100	1.70	25.0	120	60	2.0	0.7
	05/02/01	5.40	0.100	1.20	1.3	120	40	2.0	0.5
	06/29/01	5.40	0.083	NR	26.0	80	40	2.0	4.0
	07/25/01	6.79	0.092	1.91	25.1	175	80	2.4	0.1
	08/20/01	9.60	0.099	3.02	25.8	70	60	3.4	0.3
	09/17/01	5.40	0.137	0.80	25.2	150	100	NR	2.0
	10/23/01	7.53	0.074	1.42	25.3	60	60	2.6	0.5
	11/15/01	6.23	0.082	1.40	24.6	100	40	2.6	1.0
	12/18/01	5.00	0.078	0.90	24.7	110	40	2.0	2.0
	03/19/02	5.52	0.094	1.85	25.1	120	40	1.5	1.0
	06/06/02	5.30	0.097	0.72	26.2	100	40	1.8	0.0
	09/17/02	5.27	0.101	0.33	27.7	540	40	2.4	0.7
	12/12/02	4.75	NR	0.36	26.0	140	80	2.5	2.0
	03/14/03	6.26	0.098	0.85	25.32	180	15	2.5	5.0
	06/04/03	5.77	0.106	0.17	26.14	186	20	2.3	2.0
CEF-46-15I	12/20/00	5.01	0.108	1.27	22.2	86.6	40	3.2	1.0
	01/24/01	4.56	0.142	2.06	22.5	220	40	1.2	0.0
	02/01/01	4.36	0.197	0.68	24.1	200	40	0.4	0.0
	02/07/01	4.13	0.205	2.77	23.4	120	40	0.8	0.0
	02/14/01	4.00	0.210	4.60	23.0	150	60	1.4	0.7
	02/22/01	4.00	0.190	3.40	23.0	100	20	1.2	0.0
	03/08/01	4.27	0.191	1.27	23.1	100	40	0.8	0.0
	03/21/01	4.30	0.180	0.70	23.0	200	40	2.4	0.0
	04/18/01	4.00	0.180	2.30	23.0	160	20	1.6	0.0
	05/02/01	4.20	0.160	1.20	24.0	200	20	4.0	0.0
	06/29/01	3.49	0.208	NR	23.1	140	60	1.4	0.1
	07/25/01	5.80	0.184	2.30	23.5	200	20	3.2	0.0
	08/20/01	2.53	0.178	0.06	26.7	360	20	4.6	0.0
	09/17/01	4.22	0.229	2.40	24.1	220	20	4.6	0.0
	10/23/01	5.61	0.141	0.28	24.0	200	20	3.2	0.0
	11/15/01	4.75	0.139	0.41	23.6	160	20	1.6	0.0
	12/18/01	4.00	0.133	1.77	23.4	170	20	3.8	0.0
	03/18/02	4.06	0.163	2.80	24.2	160	20	1.8	0.0
	06/06/02	4.36	0.159	0.08	24.0	200	20	4.0	0.0
	09/17/02	4.44	0.164	0.22	24.6	880	20	3.0	0.1
	12/12/02	3.89	NR	1.49	23.7	191	60	4.2	0.0
	03/13/03	4.64	0.191	0.90	22.79	343	0	3.2	0
	03/13/03	1.76	0.172	0.59	22.89	368	10	3.3	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)
CEF-46-21I	12/20/00	4.86	0.047	1.35	23.2	9.4	60	0.8	0.0
	01/25/01	4.39	0.153	4.00	24.9	100	60	2.0	0.1
	02/02/01	4.09	0.131	2.25	23.3	120	100	2.6	0.1
	02/08/01	4.10	0.400	2.60	24.0	400	80	5.0	0.7
	02/16/01	3.70	0.320	2.10	24.0	200	60	3.6	0.5
	02/22/01	3.70	0.400	2.50	24.0	120	60	3.2	0.3
	03/08/01	3.21	0.490	3.87	23.2	>1000	>400	5.0	0.1
	03/21/01	NR	NR	NR	NR	NR	NR	NR	NR
	04/18/01	3.10	1.400	0.80	22.0	640	20	4.2	0.0
	05/02/01	NR	NR	NR	NR	NR	NR	NR	NR
	06/29/01	NR	NR	NR	NR	NR	NR	NR	NR
	07/25/01	NR	NR	NR	NR	NR	NR	NR	NR
	08/21/01	NR	0.902	NR	26.7	500	20	5.2	0.1
	09/18/01	3.07	2.430	2.66	26.5	400	20	4.8	0.3
	10/24/01	6.01	0.537	1.77	26.7	240	20	2.8	0.7
	11/16/01	2.04	0.584	1.68	26.0	NR	20	2.6	5.0
	12/18/01	2.00	0.785	1.23	25.8	NR	20	3.6	0.3
	03/19/02	3.21	0.948	1.87	25.6	600	20	1.2	0.3
	06/07/02	2.76	2.220	3.63	25.6	NR	20	2.8	2.0
	09/18/02	3.10	1.490	0.77	26.4	1000+	20	10+	1.0
	12/12/02	3.26	NR	1.17	24.9	1000	0	6.0	1.0
	03/13/03	3.75	0.713	2.35	23.94	0	0	3	0
	06/05/03	3.12	0.798	0.00	24.22	Interference	0	3.9	0.7
CEF-46-24D	12/20/00	6.15	0.129	0.13	21.9	16.4	60	2.3	0.1
	01/25/01	5.93	0.099	0.44	22.9	160	100	2.0	0.1
	02/02/01	6.07	0.104	0.70	23.1	320	60	1.4	0.1
	02/08/01	6.20	0.110	0.60	24.0	96	100	1.6	0.1
	02/15/01	5.80	0.120	0.50	24.0	90	40	1.4	0.0
	02/22/01	5.80	0.130	1.00	24.0	90	60	1.8	0.1
	03/08/01	6.05	0.154	1.65	22.9	120	40	1.2	0.0
	03/21/01	5.80	0.160	1.60	23.0	140	60	NR	0.1
	04/18/01	5.90	0.210	2.00	24.0	120	60	3.0	0.0
	05/02/01	3.60	0.590	5.10	23.0	100	20	0.2	0.0
	06/29/01	3.55	0.770	NR	23.4	160	20	0.8	0.0
	07/25/01	NR	2.500	1.76	26.5	>1000	20	4.4	0.0
	08/21/01	NR	1.580	NR	27.9	140	20	6.4	0.1
	09/18/01	3.56	1.140	0.50	26.7	160	20	2.2	0.1
	10/24/01	5.51	1.380	1.13	26.8	260	20	5.0	0.0
	11/16/01	2.33	0.774	0.96	26.0	NR	20	4.6	0.0
	12/18/01	3.00	0.756	1.02	25.7	NR	20	5.0	0.0
	03/19/02	3.60	0.920	1.35	25.9	200	20	3.4	0.1
	06/07/02	2.94	2.520	3.53	28.1	NR	20	4.4	0.0
	09/18/02	2.73	2.400	0.03	27.3	1990	20	10+	0.0
	12/12/02	3.27	NR	0.37	28.3	0	0	5.1	0.0
	03/14/03	3.70	2.530	2.23	27.46	0	0	4	0
	06/05/03	0.36	3.160	0.36	28.22	Interference	0	5.9	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)
CEF-46-25I	12/20/00	5.81	0.167	2.88	24.6	20.6	120	0.6	5.0
	01/25/01	4.92	0.066	0.22	26.4	200	40	1.2	>5.0
	02/02/01	5.15	0.077	0.82	26.6	200	40	1.2	5.0
	02/08/01	5.20	0.060	0.70	27.0	140	40	1.1	>5.0
	02/15/01	4.70	0.070	0.50	27.0	150	20	1.6	>5.0
	02/22/01	5.00	0.070	1.50	27.0	140	40	1.5	>5.0
	03/08/01	5.14	0.063	3.41	26.2	200	20	1.4	5.0
	03/21/01	4.90	0.070	1.90	26.0	120	20	1.4	5.0
	04/18/01	4.90	0.070	1.00	26.0	140	2	108.0	>5
	05/02/01	4.60	0.070	1.60	27.0	160	20	1.4	5.0
	06/29/01	4.58	0.066	NR	26.7	80	20	1.4	5.0
	07/25/01	NR	0.447	2.45	26.7	>1000	20	3.6	5.0
	08/21/01	NR	0.088	NR	27.7	180	20	2.6	5.0
	09/18/01	4.53	0.195	1.70	26.5	120	20	4.0	5.0
	10/24/01	6.11	0.214	0.98	26.6	60	20	2.5	5.0
	11/16/01	3.39	0.288	2.08	25.9	NR	20	4.0	>5.0
	12/18/01	4.00	0.449	1.32	26.0	NR	20	4.0	5.0
	03/19/02	3.84	1.370	2.15	26.4	240	20	4.0	5.0
	06/07/02	3.79	1.400	0.89	26.5	NR	20	4.0	5.0
	09/18/02	3.71	0.999	0.63	26.6	780	20	10+	5.0
	12/12/02	3.97	NR	0.34	25.7	0	40	10.0	5.0
	03/13/03	6.16	1.420	1.03	25.35	0	0	4.5	5
	06/04/03	5.98	1.440	0.00	25.76	0	0	6	5
CEF-46-26I	12/20/00	8.53	0.099	0.03	23.1	24.2	NR	1.4	NR
	01/25/01	5.13	0.049	0.37	24.8	220	100	1.0	5.0
	02/02/01	5.20	0.042	0.46	24.3	200	60	1.0	5.0
	02/08/01	5.30	0.040	0.80	24.0	250	140	0.8	>5.0
	02/16/01	5.00	0.040	2.10	24.0	160	40	1.0	5.0
	02/22/01	5.10	0.040	0.80	25.0	200	60	1.2	>5.0
	03/08/01	5.17	0.040	1.22	24.0	240	40	1.0	2.0
	03/21/01	5.1	0.04	2.3	24.0	240	60	NR	5.0
	04/18/01	4.9	0.04	1.2	24.0	180	40	0.2	>5
	05/02/01	5.07	0.043	0.99	24.5	160	60	1.0	5.0
	06/29/01	4.63	0.098	NR	24.1	20	20	3.8	5.0
	07/25/01	NR	0.383	2.01	24.4	>1000	40	5.0	5.0
	08/21/01	NR	0.505	NR	25.7	200	20	7.2	5.0
	09/18/01	3.97	1.13	0.93	24.4	260	20	6.0	3.0
	10/24/01	6.47	1.84	0.55	24.7	260	20	8.0	2.0
	11/16/01	3.31	2.12	2.86	24.2	NR	20	4.6	>5.0
	12/18/01	3	2.15	1.87	24.3	NR	20	8.0	5.0
	03/19/02	3.58	2.750	1.29	25.0	700	20	5.0	5.0
	06/06/02	3.54	2.44	1.04	25.8	NR	20	6.0	5.0
	09/18/02	3.29	2.39	0.25	25.6	1590	20	10+	5.0
	12/13/02	3.79	NR	0.75	24.6	1000	0	10.0	5.0
	03/14/03	6.34	0.063	4.66	26.88	0	0	4.6	5
	06/05/03	3.31	2.88	0.00	24.60	Interference	0	9	5

NR = No Reading Taken

4.0 Conclusions and Recommendations

4.1. Conclusions

Compared to the baseline-sampling event, the second quarter soil-screening results in the soil-contamination area indicate decreased contaminant concentration in the areas of SB-1 and SB-2 and increased contaminant concentrations in the area of SB-14.

Five of the fourteen groundwater-monitoring wells at the site exhibited groundwater-contaminant concentrations greater than the GCTL during the baseline-sampling event conducted on December 20, 2000 and the first sampling-event on January 25, 2001. These five wells are: CEF-46-1S, CEF-46-2S, CEF-46-7I, CEF-46-13I, and CEF-46-26I. The groundwater-contaminant concentrations in four of these wells (CEF-46-2S, CEF-46-7I, CEF-46-13I, and CEF-46-26I) decreased compared to the baseline-sampling event. The contaminant-concentrations in monitoring wells CEF-46-1S, CEF-46-26I and CEF-46-13I increased compared to the baseline-sampling event concentrations. LNAPL was not noted in any monitoring well during the second quarter 2003 monitoring period.

4.2 Recommendations

The site is currently being reassessed by TtNUS for system optimization. Groundwater from all fourteen of the monitoring wells will continue to be sampled on a quarterly basis. Soil sampling will continue to be conducted quarterly during the next annual period to monitor soil contamination concentrations.

5.0 References

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

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

CH2M HILL Constructors, Inc. (CCI), 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.

APPENDICES

A	*June 2003 Laboratory Analytical Reports for Soil Samples*
B	*June 2003 Laboratory Analytical Reports for Groundwater Samples*
C	*2nd Quarter 2003 Groundwater Sampling Logs*
D	*2nd Quarter 2003 Site Visit Reports*

APPENDIX A

June 2003 Laboratory Analytical Reports for Soil Samples

TEST AMERICA ANALYTICAL TESTING CORP.-NASHVILLE

COOLER RECEIPT FORM

BC# 335074

Client: Terraine

Cooler Received On: 6/10/03 And Opened On: 6/10/03 By: Mark Beasley

M. Beasley
(Signature)

1. Temperature of Cooler when opened 20 Degrees Celsius
2. Were custody seals on outside of cooler?.....YES....NO....NA
   a. If yes, how many, what kind and where: 2 Side
3. Were custody seals on containers and intact?.....NO...YES...NA
4. Were the seals intact, signed, and dated correctly?.....YES....NO...NA
5. Were custody papers inside cooler?.....YES....NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....YES....NO...NA
7. Did you sign the custody papers in the appropriate place?.....YES....NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....YES...NO...NA
10. Did all bottles arrive in good condition(unbroken)?.....YES...NO...NA
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES...NO...NA
12. Did all bottle labels and tags agree with custody papers?.....YES...NO...NA
13. Were correct bottles 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 bottle?.....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:

UPS Velocity Airborne Route Off-street Fedex Misc.

48 HOUR NITRATES HOLDING

TestAmerica INCORPORATED

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,
ng conducted for regulatory purposes?
ance Monitoring

335074

Client Name: Terraine Inc. Client #: 9463

Address: 7380 Phillips Highway Suite 106

City/State/Zip Code: Jacksonville, FL 32256

Project Manager: James Young

Telephone Number: 904-296-6001 Fax: 305-513-4902

Sampler Name: (Print Name) Karen Baer

Sampler Signature: Karen Baer

Project Name: Cecil Field Building 46

Project #: 04-41001/3

Site/Location ID: State:

Report To:

Invoice To:

Quote #: PO#:

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: _____

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
SB-2	6/9/03	14:42	G							1	1	2	X	X	X								89512
CEF-46-6D	6/9/03	15:24					5				4		X	X	X	X	X	X					89508
CEF-46-7I	6/9/03	16:33					5				4		X	X	X	X	X	X					09
[redacted]	[redacted]	[redacted]																					
SB-14	6/9/03	17:20								1	1	2	X	X	X								89513
SB-1	6/9/03	16:20								1	1	2	X	X	X								89514
CEF-46-1S	6/9/03	17:24					5				4		X	X	X	X	X	X					10
Trip Blank																							89511

Special Instructions:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp: 2.0
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

Relinquished By	Date	Time	Received By	Date	Time
Karen Baer	6/9/03		M. Ely	6/10/03	8:00

TestAmerica
ANALYTICAL TESTING CORPORATION

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

6/20/03

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: 335074.

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. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980.

Sample Identification	Lab Number	Collection Date
CEF-46-6D	03-A89508	6/ 9/03
CEF-46-7I	03-A89509	6/ 9/03
CEF-46-1S	03-A89510	6/ 9/03
Trip Blank	03-A89511	
SB-2	03-A89512	6/ 9/03
SB-14	03-A89513	6/ 9/03
SB-1	03-A89514	6/ 9/03

TestAmerica
ANALYTICAL TESTING CORPORATION

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

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: _____ Report Date: 6/20/03

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
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

TestAmerica
ANALYTICAL TESTING CORPORATION

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

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: KAREN BAER

Lab Number: 03-A89512
Sample ID: SB-2
Sample Type: Soil
Site ID:

Date Collected: 6/ 9/03
Time Collected: 14:42
~~Date Received: 6/10/03~~
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	83.1	%		1	6/11/03		M. Ricke	CLP	5137
ORGANIC PARAMETERS									
Benzene	0.4545	mg/kg	0.0827	50	6/12/03	12:54	J. Redmond	8021B	5009
Ethylbenzene	11.07	mg/kg	0.0827	50	6/12/03	12:54	J. Redmond	8021B	5009
Toluene	0.4463	mg/kg	0.0827	50	6/12/03	12:54	J. Redmond	8021B	5009
Xylenes, total	75.58	mg/kg	0.4132	250	6/13/03	13:55	J. Redmond	8021B	8574
MTBE	ND	mg/kg	0.413	50	6/12/03	12:54	J. Redmond	8021B	5009
TRPH	288	mg/kg	120	10	6/17/03	11:05	M.Jarrett	FPRO	8361
EXTRACTABLE ORGANICS									
Acenaphthene	0.0632	mg/kg	0.00397	1	6/17/03	12:16	D. Harris	8270C-SIM	8311
Acenaphthylene	0.033	mg/kg	0.00397	1	6/17/03	12:16	D. Harris	8270C-SIM	8311
Anthracene	0.058	mg/kg	0.00397	1	6/17/03	12:16	D. Harris	8270C-SIM	8311
Benzo(a)anthracene	0.00953	mg/kg	0.00397	1	6/17/03	12:16	D. Harris	8270C-SIM	8311
Benzo(a)pyrene	0.0111	mg/kg	0.00397	1	6/17/03	12:16	D. Harris	8270C-SIM	8311
Benzo(b)fluoranthene	0.0107	mg/kg	0.00397	1	6/17/03	12:16	D. Harris	8270C-SIM	8311
Benzo(g,h,i)perylene	0.0115	mg/kg	0.00397	1	6/17/03	12:16	D. Harris	8270C-SIM	8311
Benzo(k)fluoranthene	0.00556	mg/kg	0.00397	1	6/17/03	12:16	D. Harris	8270C-SIM	8311
Chrysene	0.0123	mg/kg	0.00397	1	6/17/03	12:16	D. Harris	8270C-SIM	8311
Dibenz(a,h)anthracene	ND	mg/kg	0.00397	1	6/17/03	12:16	D. Harris	8270C-SIM	8311
Fluoranthene	0.0333	mg/kg	0.00397	1	6/17/03	12:16	D. Harris	8270C-SIM	8311
Fluorene	0.136	mg/kg	0.00397	1	6/17/03	12:16	D. Harris	8270C-SIM	8311
Indeno(1,2,3-cd)pyrene	0.0107	mg/kg	0.00397	1	6/17/03	12:16	D. Harris	8270C-SIM	8311
2-Methylnaphthalene	12	mg/kg	0.199	50	6/17/03	13:24	D. Harris	8270C-SIM	8311

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

ANALYTICAL REPORT

Laboratory Number: 03-A89512
Sample ID: SB-2
Project: 04-41001/3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Naphthalene	11.2	mg/kg	0.199	50	6/17/03	13:24	D. Harris	8270C-SIM	8311
~~Phenanthrene~~	~~0.206~~	~~mg/kg~~	~~0.00397~~	~~1~~	~~6/17/03~~	~~12:16~~	~~D. Harris~~	~~8270C-SIM~~	~~8311~~
Pyrene	0.0425	mg/kg	0.00397	1	6/17/03	12:16	D. Harris	8270C-SIM	8311
1-Methylnapthalene	7.06	mg/kg	0.199	50	6/17/03	13:24	D. Harris	8270C-SIM	8311

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
FL-PRO	25. g	2.0 ml	6/11/03		M. Cauthen	FDEP
PAH-SIM	30.0 gm	1.0 ml	6/11/03		M. Cauthen	SW3550
BTX Prep	3.64 g	5.0 ml	6/ 9/03	14:42	J. Redmond	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	92.	65. - 119.
BNA Surr-Nitrobenzene-d5	104. #	44. - 99.
BNA Surr-2-Fluorobiphenyl	76.	45. - 94.
BNA Surr-Terphenyl-d14	97.	53. - 104.

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

ANALYTICAL REPORT

Laboratory Number: 03-A89512
Sample ID: SB-2
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.
All reported results for metals or Organic analyses have been corrected for dry weight.
The report limit for the BTEX analysis is elevated due to the sample matrix.
BNA PQL's elevated due to sample matrix.
Flapro surrogate recovery diluted out due to sample matrix
Flapro ms/msds recovery could not be determined due to
sample matrix

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

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

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: KAREN BAER

Lab Number: 03-A89513
Sample ID: SB-14
Sample Type: Soil
Site ID:

Date Collected: 6/ 9/03
Time Collected: 17:20
Date Received: 6/10/03
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	85.9	%		1	6/11/03		M. Ricke	CLP	5137
ORGANIC PARAMETERS									
Benzene	0.0099	mg/kg	0.0012	1	6/12/03	13:58	J. Redmond	8021B	5009
Ethylbenzene	0.1241	mg/kg	0.0012	1	6/12/03	13:58	J. Redmond	8021B	5009
Toluene	0.02	mg/kg	0.0012	1	6/12/03	13:58	J. Redmond	8021B	5009
Xylenes, total	0.1563	mg/kg	0.001	1	6/12/03	13:58	J. Redmond	8021B	5009
MTBE	0.006	mg/kg	0.006	1	6/12/03	13:58	J. Redmond	8021B	5009
TRPH	413	mg/kg	116	10	6/16/03	17:34	M.Jarrett	FPRO	8361
EXTRACTABLE ORGANICS									
Acenaphthene	0.0645	mg/kg	0.00384	1	6/17/03	12:50	D. Harris	8270C-SIM	8311
Acenaphthylene	0.0334	mg/kg	0.00384	1	6/17/03	12:50	D. Harris	8270C-SIM	8311
Anthracene	0.0523	mg/kg	0.00384	1	6/17/03	12:50	D. Harris	8270C-SIM	8311
Benzo(a)anthracene	0.0277	mg/kg	0.00384	1	6/17/03	12:50	D. Harris	8270C-SIM	8311
Benzo(a)pyrene	0.0292	mg/kg	0.00384	1	6/17/03	12:50	D. Harris	8270C-SIM	8311
Benzo(b)fluoranthene	0.0319	mg/kg	0.00384	1	6/17/03	12:50	D. Harris	8270C-SIM	8311
Benzo(g,h,i)perylene	0.0299	mg/kg	0.00384	1	6/17/03	12:50	D. Harris	8270C-SIM	8311
Benzo(k)fluoranthene	0.0242	mg/kg	0.00384	1	6/17/03	12:50	D. Harris	8270C-SIM	8311
Chrysene	0.0265	mg/kg	0.00384	1	6/17/03	12:50	D. Harris	8270C-SIM	8311
Dibenz(a,h)anthracene	0.013	mg/kg	0.00384	1	6/17/03	12:50	D. Harris	8270C-SIM	8311
Fluoranthene	0.0556	mg/kg	0.00384	1	6/17/03	12:50	D. Harris	8270C-SIM	8311
Fluorene	0.137	mg/kg	0.00384	1	6/17/03	12:50	D. Harris	8270C-SIM	8311
Indeno(1,2,3-cd)pyrene	0.0292	mg/kg	0.00384	1	6/17/03	12:50	D. Harris	8270C-SIM	8311
2-Methylnaphthalene	10.8	mg/kg	0.192	50	6/17/03	14:32	D. Harris	8270C-SIM	8311

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

ANALYTICAL REPORT

Laboratory Number: 03-A89513
Sample ID: SB-14
Project: 04-41001/3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Naphthalene	6.2	mg/kg	0.192	50	6/17/03	14:32	D. Harris	8270C-SIM	8311
Phenanthrene	0.154	mg/kg	0.00384	1	6/17/03	12:50	D. Harris	8270C-SIM	8311
Pyrene	0.0499	mg/kg	0.00384	1	6/17/03	12:50	D. Harris	8270C-SIM	8311
1-Methylnapthalene	6.15	mg/kg	0.192	50	6/17/03	14:32	D. Harris	8270C-SIM	8311

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
FL-PRO	25. g	2.0 ml	6/11/03		M. Cauthen	FDEP
PAH-SIM	30.1 gm	1.0 ml	6/11/03		M. Cauthen	SW3550
BTX Prep	5.39 g	5.0 ml	6/ 9/03	17:20	J. Redmond	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	101.	65. - 119.
BNA Surr-Nitrobenzene-d5	94.	44. - 99.
BNA Surr-2-Fluorobiphenyl	80.	45. - 94.
BNA Surr-Terphenyl-d14	95.	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 reported results for metals or Organic analyses have been corrected for dry weight.
BNA PQL's elevated due to sample matrix.
Flapro surrogate recovery diluted out due to sample matrix

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

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

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: KAREN BAER

Lab Number: 03-A89514
Sample ID: SB-1
Sample Type: Soil
Site ID:

Date Collected: 6/ 9/03
Time Collected: 16:20
Date Received: 6/10/03
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	84.0	%		1	6/11/03		M. Ricke	CLP	5137
ORGANIC PARAMETERS									
Benzene	0.1869	mg/kg	0.0505	50	6/12/03	13:26	J. Redmond	8021B	5009
Ethylbenzene	1.526	mg/kg	0.0505	50	6/12/03	13:26	J. Redmond	8021B	5009
Toluene	0.2224	mg/kg	0.0505	50	6/12/03	13:26	J. Redmond	8021B	5009
Xylenes, total	3.082	mg/kg	0.0505	50	6/12/03	13:26	J. Redmond	8021B	5009
MTBE	ND	mg/kg	0.252	50	6/12/03	13:26	J. Redmond	8021B	5009
TRPH	27.7	mg/kg	11.9	1	6/16/03	17:54	M.Jarrett	FPRO	8361
EXTRACTABLE ORGANICS									
Acenaphthene	0.00864	mg/kg	0.00393	1	6/17/03	11:42	D. Harris	8270C-SIM	8311
Acenaphthylene	0.00432	mg/kg	0.00393	1	6/17/03	11:42	D. Harris	8270C-SIM	8311
Anthracene	0.0176	mg/kg	0.00393	1	6/17/03	11:42	D. Harris	8270C-SIM	8311
Benzo(a)anthracene	ND	mg/kg	0.00393	1	6/17/03	11:42	D. Harris	8270C-SIM	8311
Benzo(a)pyrene	ND	mg/kg	0.00393	1	6/17/03	11:42	D. Harris	8270C-SIM	8311
Benzo(b)fluoranthene	ND	mg/kg	0.00393	1	6/17/03	11:42	D. Harris	8270C-SIM	8311
Benzo(g,h,i)perylene	ND	mg/kg	0.00393	1	6/17/03	11:42	D. Harris	8270C-SIM	8311
Benzo(k)fluoranthene	ND	mg/kg	0.00393	1	6/17/03	11:42	D. Harris	8270C-SIM	8311
Chrysene	ND	mg/kg	0.00393	1	6/17/03	11:42	D. Harris	8270C-SIM	8311
Dibenz(a,h)anthracene	ND	mg/kg	0.00393	1	6/17/03	11:42	D. Harris	8270C-SIM	8311
Fluoranthene	0.00943	mg/kg	0.00393	1	6/17/03	11:42	D. Harris	8270C-SIM	8311
Fluorene	0.0755	mg/kg	0.00393	1	6/17/03	11:42	D. Harris	8270C-SIM	8311
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.00393	1	6/17/03	11:42	D. Harris	8270C-SIM	8311
2-Methylnaphthalene	0.976	mg/kg	0.0196	5	6/17/03	13:58	D. Harris	8270C-SIM	8311

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

ANALYTICAL REPORT

Laboratory Number: 03-A89514
Sample ID: SB-1
Project: 04-41001/3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Naphthalene	0.0805	mg/kg	0.00393	1	6/17/03	11:42	D. Harris	8270C-SIM	8311
Phenanthrene	0.0502	mg/kg	0.00393	1	6/17/03	11:42	D. Harris	8270C-SIM	8311
Pyrene	0.0118	mg/kg	0.00393	1	6/17/03	11:42	D. Harris	8270C-SIM	8311
1-Methylnapthalene	0.62	mg/kg	0.0196	5	6/17/03	13:58	D. Harris	8270C-SIM	8311

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
FL-PRO	25. g	2.0 ml	6/11/03		M. Cauthen	FDEP
PAH-SIM	30.2 gm	1.0 ml	6/11/03		M. Cauthen	SW3550
BTX Prep	5.89 g	5.0 ml	6/ 9/03	16:20	J. Redmond	5035

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	97.	65. - 119.
TPH sur, o-Terphenyl	87.	62. - 109.
TPH Surr, C-35	100.	60. - 118.
BNA Surr-Nitrobenzene-d5	53.	44. - 99.
BNA Surr-2-Fluorobiphenyl	64.	45. - 94.
BNA Surr-Terphenyl-d14	87.	53. - 104.

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

ANALYTICAL REPORT

Laboratory Number: 03-A89514
Sample ID: SB-1
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.
All reported results for metals or Organic analyses have been corrected for dry weight.
The report limit for the BTEX analysis is elevated due to the sample matrix.
BNA PQL's elevated due to sample matrix.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 1
Laboratory Receipt Date: 6/10/03

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	< 0.0010	0.0428	0.0500	86	42. - 150.	5009	03-a89814
Toluene	mg/kg	< 0.0010	0.0423	0.0500	85	34. - 149.	5009	blank
Ethylbenzene	mg/kg	< 0.0010	0.0429	0.0500	86	31. - 154.	5009	03-a89814
Xylenes, total	mg/kg	< 0.0010	0.0855	0.1000	86	55. - 142.	5009	03-a89814
MTBE	mg/kg	< 0.005	0.047	0.050	94	36. - 151.	5009	03-a89814
Benzene	mg/l	< 0.00100	0.0362	0.0500	72	60. - 143.	4959	03-A89606
Benzene	mg/l	0.00480	0.0607	0.0500	112	60. - 143.	5696	03-A89991
Toluene	mg/l	< 0.0010	0.0353	0.0500	71	62. - 139.	4959	03-A89606
Toluene	mg/l	< 0.0010	0.0563	0.0500	113	62. - 139.	5696	03-A89991
Ethylbenzene	mg/l	< 0.0010	0.0350	0.0500	70	61. - 138.	4959	03-A89606
Ethylbenzene	mg/l	0.0010	0.0540	0.0500	106	61. - 138.	5696	03-A89991
Xylenes (Total)	mg/l	< 0.0010	0.0693	0.100	69	59. - 137.	4959	03-A89606
Xylenes (Total)	mg/l	0.0051	0.107	0.100	102	59. - 137.	5696	03-A89991
Methyl-t-butylether	mg/l	< 0.0010	0.0351	0.0500	70	60. - 138.	4959	03-A89606
TRPH	mg/l	< 0.100	0.466	0.430	108#	44. - 101.	9365	BLANK
TRPH	mg/l	< 0.100	0.392	0.430	91	44. - 101.	9886	BLANK
BTEX/GRO Surr., a,a,a-TFT	% Recovery				96	69 - 129	4959	
BTEX/GRO Surr., a,a,a-TFT	% Recovery				101	69 - 129	5696	

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
EXTRACTABLE PARAMETERS								
Acenaphthene	mg/l	< 0.00010	0.00103	0.00100	103	28. - 106.	8304	Blank

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 2
Laboratory Receipt Date: 6/10/03

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
Acenaphthene	mg/kg	0.00726	0.0327	0.0330	77	4. - 135.	8311	03-A89514
Acenaphthylene	mg/l	< 0.00010	0.00097	0.00100	97	26. - 106.	8304	Blank
Acenaphthylene	mg/kg	0.00363	0.0280	0.0330	74	2. - 145.	8311	03-A89514
Anthracene	mg/l	< 0.00010	0.00113	0.00100	113	30. - 116.	8304	Blank
Anthracene	mg/kg	0.0148	0.0393	0.0330	74	9. - 143.	8311	03-A89514
Benzo(a)anthracene	mg/l	< 0.00010	0.00140	0.00100	140#	38. - 128.	8304	Blank
Benzo(a)anthracene	mg/kg	< 0.00330	0.0353	0.0330	107	45. - 119.	8311	03-A89514
Benzo(a)pyrene	mg/l	< 0.00010	0.00110	0.00100	110	34. - 117.	8304	Blank
Benzo(a)pyrene	mg/kg	< 0.00330	0.0234	0.0330	71	10. - 128.	8311	03-A89514
Benzo(b)fluoranthene	mg/l	< 0.00010	0.00121	0.00100	121	37. - 132.	8304	Blank
Benzo(b)fluoranthene	mg/kg	< 0.00330	0.0284	0.0330	86	20. - 135.	8311	03-A89514
Benzo(g,h,i)perylene	mg/l	< 0.00010	0.00131	0.00100	131#	25. - 125.	8304	Blank
Benzo(g,h,i)perylene	mg/kg	< 0.00330	0.0221	0.0330	67	10. - 152.	8311	03-A89514
Benzo(k)fluoranthene	mg/l	< 0.00010	0.00152	0.00100	152#	35. - 128.	8304	Blank
Benzo(k)fluoranthene	mg/kg	< 0.00330	0.0333	0.0330	101	18. - 128.	8311	03-A89514
Chrysene	mg/l	< 0.00010	0.00140	0.00100	140#	42. - 126.	8304	Blank
Chrysene	mg/kg	< 0.00330	0.0307	0.0330	93	8. - 154.	8311	03-A89514
Dibenz(a,h)anthracene	mg/l	< 0.00010	0.00118	0.00100	118	31. - 128.	8304	Blank
Dibenz(a,h)anthracene	mg/kg	< 0.00330	0.0195	0.0330	59	14. - 138.	8311	03-A89514
Fluoranthene	mg/l	< 0.00010	0.00140	0.00100	140#	35. - 125.	8304	Blank
Fluoranthene	mg/kg	0.00792	0.0380	0.0330	91	4. - 163.	8311	03-A89514
Fluorene	mg/l	< 0.00010	0.00109	0.00100	109	30. - 112.	8304	Blank
Fluorene	mg/kg	0.0634	0.0865	0.0330	70	6. - 147.	8311	03-A89514
Indeno(1,2,3-cd)pyrene	mg/l	< 0.00010	0.00124	0.00100	124	31. - 124.	8304	Blank
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.00330	0.0208	0.0330	63	6. - 139.	8311	03-A89514
2-Methylnaphthalene	mg/l	< 0.00010	0.00087	0.00100	87	25. - 113.	8304	Blank
Naphthalene	mg/l	< 0.00010	0.00095	0.00100	95	9. - 120.	8304	Blank
Naphthalene	mg/kg	0.0676	0.0739	0.0330	19	12. - 118.	8311	03-A89514
Phenanthrene	mg/l	< 0.00010	0.00128	0.00100	128#	34. - 116.	8304	Blank
Phenanthrene	mg/kg	0.0422	0.0673	0.0330	76	13. - 134.	8311	03-A89514

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 3
Laboratory Receipt Date: 6/10/03

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
Pyrene	mg/l	< 0.00010	0.00152	0.00100	152#	35. - 118.	8304	Blank
Pyrene	mg/kg	0.00990	0.0389	0.0330	88	10. - 149.	8311	03-A89514
1-Methylnaphthalene	mg/l	< 0.00010	0.00090	0.00100	90	31. - 112.	8304	Blank
BNA Surr-Nitrobenzene-d5	% Rec				92	34. - 107.	8304	
BNA Surr-2-Fluorobiphenyl	% Rec				101	40. - 96.	8304	
BNA Surr-Terphenyl-d14	% Rec				152	26. - 106.	8304	

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
MISC PARAMETERS								
Nitrate-N as N	mg/l	0.13	3.27	3.00	105	80 - 120	4730	03-A89394
Nitrite-N as N	mg/l	< 0.10	3.10	3.00	103	80 - 120	4730	03-A89394
Ortho Phosphate as P	mg/l	< 0.100	1.08	1.00	108	80 - 120	4723	03-A89510

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
Benzene	mg/kg	0.0428	0.0340	22.92	30.	5009
Toluene	mg/kg	0.0423	0.0339	22.05	35.	5009
Ethylbenzene	mg/kg	0.0429	0.0337	24.02	37.	5009
Xylenes, total	mg/kg	0.0855	0.0667	24.70	47.	5009
MTBE	mg/kg	0.047	0.040	16.09	46.	5009
Benzene	mg/l	0.0362	0.0398	9.47	23.	4959

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 4
Laboratory Receipt Date: 6/10/03

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Benzene	mg/l	0.0607	0.0643	5.76	23.	5696
Toluene	mg/l	0.0353	0.0391	10.22	24.	4959
Toluene	mg/l	0.0563	0.0603	6.86	24.	5696
Ethylbenzene	mg/l	0.0350	0.0389	10.55	24.	4959
Ethylbenzene	mg/l	0.0540	0.0595	9.69	24.	5696
Xylenes (Total)	mg/l	0.0693	0.0770	10.53	25.	4959
Xylenes (Total)	mg/l	0.107	0.117	8.93	25.	5696
Methyl-t-butylether	mg/l	0.0351	0.0394	11.54	24.	4959
Methyl-t-butylether	mg/l	0.0550	0.0575	4.44	24.	5696
TRPH	mg/l	0.466	0.420	10.38	41.	9365
TRPH	mg/l	0.392	0.606	42.89#	41.	9886
BTEX/GRO Surr., a,a,a-TFT	% Recovery		96.			4959
BTEX/GRO Surr., a,a,a-TFT	% Recovery		99.			5696

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00103	0.00083	21.51	33.	8304
Acenaphthene	mg/kg	0.0327	0.0317	3.11	50.	8311
Pyrene	mg/l	0.00152	0.00121	22.71	32.	8304
Pyrene	mg/kg	0.0389	0.0360	7.74	39.	8311
BNA Surr-Nitrobenzene-d5	% Rec		77.			8304
BNA Surr-Nitrobenzene-d5	% Rec		61.			8311
BNA Surr-2-Fluorobiphenyl	% Rec		82.			8304
BNA Surr-2-Fluorobiphenyl	% Rec		68.			8311
BNA Surr-Terphenyl-d14	% Rec		122.			8304
BNA Surr-Terphenyl-d14	% Rec		82.			8311

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 5
Laboratory Receipt Date: 6/10/03

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
MISC PARAMETERS						
Nitrate-N as N	mg/l	3.27	3.30	0.91	20	4730
Nitrite-N as N	mg/l	3.10	3.09	0.32	20	4730
Ortho Phosphate as P	mg/l	1.08	1.17	8.00	20	4723

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Benzene	mg/kg	0.1000	0.0948	95	71 - 132	5009
Toluene	mg/kg	0.1000	0.0938	94	68 - 129	5009
Ethylbenzene	mg/kg	0.1000	0.0943	94	71 - 131	5009
Xylenes, total	mg/kg	0.2000	0.1857	93	66 - 131	5009
Xylenes, total	mg/kg	0.2000	0.1768	88	66 - 131	8574
MTBE	mg/kg	0.100	0.093	93	56 - 140	5009
TRPH	mg/kg	17.0	19.0	112	63 - 153	8361
Benzene	mg/l	0.100	0.0951	95	74 - 120	4959
Benzene	mg/l	0.100	0.0827	83	74 - 120	6134
Benzene	mg/l	0.100	0.0992	99	74 - 120	5696
Toluene	mg/l	0.100	0.0940	94	73 - 118	4959
Toluene	mg/l	0.100	0.0998	100	73 - 118	5696
Ethylbenzene	mg/l	0.100	0.0936	94	72 - 118	4959
Ethylbenzene	mg/l	0.100	0.0975	98	72 - 118	5696
Xylenes (Total)	mg/l	0.200	0.187	94	72 - 116	4959
Xylenes (Total)	mg/l	0.200	0.165	82	72 - 116	6134
Xylenes (Total)	mg/l	0.200	0.194	97	72 - 116	5696
Methyl-t-butylether	mg/l	0.100	0.101	101	64 - 124	4959
Methyl-t-butylether	mg/l	0.100	0.0855	86	64 - 124	6134

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 6
Laboratory Receipt Date: 6/10/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Methyl-t-butylether	mg/l	0.100	0.0983	98	64 - 124	5696
TRPH	mg/l	0.430	0.544	127 #	55 - 118	9365
TRPH	mg/l	0.430	0.351	82	55 - 118	9886
BTEX/GRO Surr., a,a,a-TFT	% Recovery			97	69 - 129	4959
BTEX/GRO Surr., a,a,a-TFT	% Recovery			89	69 - 129	6134
BTEX/GRO Surr., a,a,a-TFT	% Recovery			94	69 - 129	5696

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00100	0.00088	88	28 - 106	8304
Acenaphthene	mg/kg	0.0330	0.0251	76	26 - 106	8311
Acenaphthylene	mg/l	0.00100	0.00082	82	26 - 106	8304
Acenaphthylene	mg/kg	0.0330	0.0231	70	23 - 113	8311
Anthracene	mg/l	0.00100	0.00095	95	30 - 116	8304
Anthracene	mg/kg	0.0330	0.0238	72	33 - 108	8311
Benzo(a)anthracene	mg/l	0.00100	0.00117	117	38 - 128	8304
Benzo(a)anthracene	mg/kg	0.0330	0.0251	76	47 - 119	8311
Benzo(a)pyrene	mg/l	0.00100	0.00093	93	34 - 117	8304
Benzo(a)pyrene	mg/kg	0.0330	0.0191	58	37 - 106	8311
Benzo(b)fluoranthene	mg/l	0.00100	0.00108	108	37 - 132	8304
Benzo(b)fluoranthene	mg/kg	0.0330	0.0290	88	43 - 121	8311
Benzo(g,h,i)perylene	mg/l	0.00100	0.00112	112	28 - 122	8304
Benzo(g,h,i)perylene	mg/kg	0.0330	0.0195	59	23 - 124	8311
Benzo(k)fluoranthene	mg/l	0.00100	0.00136	136 #	35 - 128	8304
Benzo(k)fluoranthene	mg/kg	0.0330	0.0304	92	40 - 112	8311
Chrysene	mg/l	0.00100	0.00123	123	42 - 126	8304
Chrysene	mg/kg	0.0330	0.0274	83	48 - 117	8311

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 7
Laboratory Receipt Date: 6/10/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Dibenz(a,h)anthracene	mg/l	0.00100	0.00108	108	35 - 124	8304
Dibenz(a,h)anthracene	mg/kg	0.0330	0.0191	58	30 - 129	8311
Fluoranthene	mg/l	0.00100	0.00117	117	35 - 125	8304
Fluoranthene	mg/kg	0.0330	0.0264	80	40 - 119	8311
Fluorene	mg/l	0.00100	0.00091	91	30 - 112	8304
Fluorene	mg/kg	0.0330	0.0248	75	29 - 112	8311
Indeno(1,2,3-cd)pyrene	mg/l	0.00100	0.00108	108	34 - 121	8304
Indeno(1,2,3-cd)pyrene	mg/kg	0.0330	0.0195	59	30 - 125	8311
2-Methylnaphthalene	mg/l	0.00100	0.00074	74	31 - 108	8304
2-Methylnaphthalene	mg/kg	0.0330	0.0231	70	31 - 115	8311
Naphthalene	mg/l	0.00100	0.00105	105	9 - 120	8304
Naphthalene	mg/kg	0.0330	0.0251	76	23 - 105	8311
Phenanthrene	mg/l	0.00100	0.00108	108	34 - 116	8304
Phenanthrene	mg/kg	0.0330	0.0264	80	36 - 107	8311
Pyrene	mg/l	0.00100	0.00129	129 #	35 - 118	8304
Pyrene	mg/kg	0.0330	0.0290	88	38 - 113	8311
1-Methylnaphthalene	mg/l	0.00100	0.00075	75	31 - 112	8304
1-Methylnapthalene	mg/kg	0.0330	0.0234	71	35 - 113	8311
BNA Surr-Nitrobenzene-d5	% Rec			82	34 - 107	8304
BNA Surr-2-Fluorobiphenyl	% Rec			88	40 - 96	8304
BNA Surr-Terphenyl-d14	% Rec			120	26 - 106	8304

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
MISC PARAMETERS						
Nitrate-N as N	mg/l	3.00	2.96	99	90 - 110	4730
Nitrite-N as N	mg/l	3.00	2.90	97	90 - 110	4730
Ortho Phosphate as P	mg/l	1.00	1.00	100	90 - 110	4723

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 8
Laboratory Receipt Date: 6/10/03

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Nitrate-N as N	mg/l	< 0.10	< 0.10	N/A	15.	4730	03-A89510
Nitrite-N as N	mg/l	< 0.10	< 0.10	N/A	15.	4730	03-A89510

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
Benzene	< 0.0010	mg/kg	5009	6/11/03	14:03
Toluene	< 0.0010	mg/kg	5009	6/11/03	14:03
Ethylbenzene	< 0.0010	mg/kg	5009	6/11/03	14:03
Xylenes, total	< 0.0010	mg/kg	5009	6/11/03	14:03
Xylenes, total	< 0.0010	mg/kg	8574	6/13/03	10:49
MTBE	< 0.005	mg/kg	5009	6/11/03	14:03
TRPH	< 5.00	mg/kg	8361	6/16/03	15:31
Benzene	< 0.00060	mg/l	4959	6/11/03	2:01
Benzene	< 0.00060	mg/l	6134	6/11/03	18:55
Benzene	< 0.00060	mg/l	5696	6/12/03	4:29
Toluene	< 0.0006	mg/l	4959	6/11/03	2:01
Toluene	< 0.0006	mg/l	5696	6/12/03	4:29
Ethylbenzene	< 0.0006	mg/l	4959	6/11/03	2:01
Ethylbenzene	< 0.0006	mg/l	5696	6/12/03	4:29
Xylenes (Total)	< 0.0010	mg/l	4959	6/11/03	2:01
Xylenes (Total)	< 0.0010	mg/l	6134	6/11/03	18:55
Xylenes (Total)	< 0.0010	mg/l	5696	6/12/03	4:29
Methyl-t-butylether	< 0.0006	mg/l	4959	6/11/03	2:01
Methyl-t-butylether	< 0.0006	mg/l	6134	6/11/03	18:55
Methyl-t-butylether	< 0.0006	mg/l	5696	6/12/03	4:29
TRPH	< 0.100	mg/l	9365	6/15/03	7:13
TRPH	< 0.100	mg/l	9886	6/17/03	4:21

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 9
Laboratory Receipt Date: 6/10/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
TPH Surr., O-Terphenyl	133.	% Recovery	9365	6/15/03	7:13
TPH Surr, C-35	121.	% Recovery	9365	6/15/03	7:13
UST surr-Trifluorotoluene	86.	% Recovery	5009	6/11/03	14:03
UST surr-Trifluorotoluene	89.	% Recovery	8574	6/13/03	10:49
BTEX/GRO Surr., a,a,a-TFT	99.	% Recovery	4959	6/11/03	2:01
BTEX/GRO Surr., a,a,a-TFT	85.	% Recovery	6134	6/11/03	18:55
BTEX/GRO Surr., a,a,a-TFT	102.	% Recovery	5696	6/12/03	4:29

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
EXTRACTABLE PARAMETERS					
Acenaphthene	< 0.00010	mg/l	8304	6/17/03	17:33
Acenaphthene	< 0.00330	mg/kg	8311	6/17/03	9:27
Acenaphthylene	< 0.00010	mg/l	8304	6/17/03	17:33
Acenaphthylene	< 0.00330	mg/kg	8311	6/17/03	9:27
Anthracene	< 0.00010	mg/l	8304	6/17/03	17:33
Anthracene	< 0.00330	mg/kg	8311	6/17/03	9:27
Benzo(a)anthracene	< 0.00010	mg/l	8304	6/17/03	17:33
Benzo(a)anthracene	< 0.00330	mg/kg	8311	6/17/03	9:27
Benzo(a)pyrene	< 0.00010	mg/l	8304	6/17/03	17:33
Benzo(a)pyrene	0.00462	mg/kg	8311	6/17/03	9:27
Benzo(b)fluoranthene	< 0.00010	mg/l	8304	6/17/03	17:33
Benzo(b)fluoranthene	< 0.00330	mg/kg	8311	6/17/03	9:27
Benzo(g,h,i)perylene	< 0.00010	mg/l	8304	6/17/03	17:33
Benzo(g,h,i)perylene	0.00561	mg/kg	8311	6/17/03	9:27
Benzo(k)fluoranthene	< 0.00010	mg/l	8304	6/17/03	17:33

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 10
Laboratory Receipt Date: 6/10/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Benzo(k)fluoranthene	< 0.00330	mg/kg	8311	6/17/03	9:27
Chrysene	< 0.00010	mg/l	8304	6/17/03	17:33
Chrysene	< 0.00330	mg/kg	8311	6/17/03	9:27
Dibenz(a,h)anthracene	< 0.00010	mg/l	8304	6/17/03	17:33
Dibenz(a,h)anthracene	0.00726	mg/kg	8311	6/17/03	9:27
Fluoranthene	< 0.00010	mg/l	8304	6/17/03	17:33
Fluoranthene	< 0.00330	mg/kg	8311	6/17/03	9:27
Fluorene	< 0.00010	mg/l	8304	6/17/03	17:33
Fluorene	< 0.00330	mg/kg	8311	6/17/03	9:27
Indeno(1,2,3-cd)pyrene	< 0.00010	mg/l	8304	6/17/03	17:33
Indeno(1,2,3-cd)pyrene	0.00693	mg/kg	8311	6/17/03	9:27
2-Methylnaphthalene	< 0.00010	mg/l	8304	6/17/03	17:33
2-Methylnaphthalene	< 0.00330	mg/kg	8311	6/17/03	9:27
Naphthalene	< 0.00010	mg/l	8304	6/17/03	17:33
Naphthalene	< 0.00330	mg/kg	8311	6/17/03	9:27
Phenanthrene	< 0.00010	mg/l	8304	6/17/03	17:33
Phenanthrene	< 0.00330	mg/kg	8311	6/17/03	9:27
Pyrene	< 0.00010	mg/l	8304	6/17/03	17:33
Pyrene	< 0.00330	mg/kg	8311	6/17/03	9:27
1-Methylnaphthalene	< 0.00010	mg/l	8304	6/17/03	17:33
1-Methylnapthalene	< 0.00330	mg/kg	8311	6/17/03	9:27
BNA Surr-Nitrobenzene-d5	90.	% Rec	8304	6/17/03	17:33
BNA Surr-Nitrobenzene-d5	63.	% Rec	8311	6/17/03	9:27
BNA Surr-2-Fluorobiphenyl	94.	% Rec	8304	6/17/03	17:33
BNA Surr-2-Fluorobiphenyl	74.	% Rec	8311	6/17/03	9:27
BNA Surr-Terphenyl-d14	133.	% Rec	8304	6/17/03	17:33
BNA Surr-Terphenyl-d14	87.	% Rec	8311	6/17/03	9:27

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 11
Laboratory Receipt Date: 6/10/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
MISC PARAMETERS					
Nitrate-N as N	< 0.10	mg/l	4730	6/10/03	14:37
Nitrite-N as N	< 0.10	mg/l	4730	6/10/03	14:37
Ortho Phosphate as P	< 0.100	mg/l	4723	6/11/03	8:25

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 335074

APPENDIX B

June 2003 Laboratory Analytical Reports for Groundwater Samples

TEST AMERICA ANALYTICAL TESTING CORP.-NASHVILLE

COOLER RECEIPT FORM

BC# 335074

Client: Terraine

Cooler Received On: 6/10/03 And Opened On: 6/10/03 By: Mark Beasley

M. Beasley
(Signature)

1. Temperature of Cooler when opened 20 Degrees Celsius
2. Were custody seals on outside of cooler?.....YES....NO....NA
   a. If yes, how many, what kind and where: 2 Side
3. Were custody seals on containers and intact?.....NO...YES...NA
4. Were the seals intact, signed, and dated correctly?.....YES....NO...NA
5. Were custody papers inside cooler?.....YES....NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....YES....NO...NA
7. Did you sign the custody papers in the appropriate place?.....YES....NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....YES...NO...NA
10. Did all bottles arrive in good condition(unbroken)?.....YES...NO...NA
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES...NO...NA
12. Did all bottle labels and tags agree with custody papers?.....YES...NO...NA
13. Were correct bottles 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 bottle?.....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:

UPS Velocity Airborne Route Off-street Fedex Misc.

48 HOUR NITRATES HOLDING

TestAmerica INCORPORATED

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,
ng conducted for regulatory purposes?
ance Monitoring

335074

Client Name: Terraine Inc. Client #: 9463

Address: 7380 Phillips Highway Suite 106

City/State/Zip Code: Jacksonville, FL 32256

Project Manager: James Young

Telephone Number: 904-296-6001 Fax: 305-513-4902

Sampler Name: (Print Name) Karen Baer

Sampler Signature: Karen Baer

Project Name: Cecil Field Building 46

Project #: 04-41001/3

Site/Location ID: State:

Report To:

Invoice To:

Quote #: PO#:

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: _____

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
SB-2	6/9/03	14:42	G							1	1	2	X	X	X								89512
CEF-46-6D	6/9/03	15:24					5				4		X	X	X	X	X	X					89508
CEF-46-7I	6/9/03	16:33					5				4		X	X	X	X	X	X					09
[redacted]	[redacted]	[redacted]																					
SB-14	6/9/03	17:20								1	1	2	X	X	X								89513
SB-1	6/9/03	16:20								1	1	2	X	X	X								89514
CEF-46-1S	6/9/03	17:24					5				4		X	X	X	X	X	X					10
Trip Blank																							89511

Special Instructions:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp: 2.0
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

Relinquished By	Date	Time	Received By	Date	Time
Karen Baer	6/9/03		M. Ely	6/10/03	8:00

TestAmerica
ANALYTICAL TESTING CORPORATION

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

6/20/03

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: 335074.

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. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980.

Sample Identification	Lab Number	Collection Date
CEF-46-6D	03-A89508	6/ 9/03
CEF-46-7I	03-A89509	6/ 9/03
CEF-46-1S	03-A89510	6/ 9/03
Trip Blank	03-A89511	
SB-2	03-A89512	6/ 9/03
SB-14	03-A89513	6/ 9/03
SB-1	03-A89514	6/ 9/03

TestAmerica
ANALYTICAL TESTING CORPORATION

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

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: _____ Report Date: 6/20/03

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
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

TestAmerica
ANALYTICAL TESTING CORPORATION

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

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: KAREN BAER

Lab Number: 03-A89508
Sample ID: CEF-46-6D
Sample Type: Water
Site ID:

Date Collected: 6/ 9/03
Time Collected: 15:24
Date Received: 6/10/03
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	6/11/03	12:19	I. Ahmed	8021B	4959
Ethylbenzene	ND	ug/L	1.0	1.0	6/11/03	12:19	I. Ahmed	8021B	4959
Toluene	ND	ug/L	1.0	1.0	6/11/03	12:19	I. Ahmed	8021B	4959
Xylenes (Total)	8.7	ug/L	1.0	1.0	6/11/03	12:19	I. Ahmed	8021B	4959
Methyl-t-butylether	ND	ug/L	1.0	1.0	6/11/03	12:19	I. Ahmed	8021B	4959
TRPH	ND	ug/L	200.	1.0	6/15/03	15:52	M.Jarrett	FPRO	9365
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	6/18/03	4:15	D. Harris	8270C-SIM	8304
Acenaphthylene	ND	ug/L	0.10	1.0	6/18/03	4:15	D. Harris	8270C-SIM	8304
Anthracene	ND	ug/L	0.10	1.0	6/18/03	4:15	D. Harris	8270C-SIM	8304
Benzo(a)anthracene	ND	ug/L	0.10	1.0	6/18/03	4:15	D. Harris	8270C-SIM	8304
Benzo(a)pyrene	ND	ug/L	0.10	1.0	6/18/03	4:15	D. Harris	8270C-SIM	8304
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	6/18/03	4:15	D. Harris	8270C-SIM	8304
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	6/18/03	4:15	D. Harris	8270C-SIM	8304
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	6/18/03	4:15	D. Harris	8270C-SIM	8304
Chrysene	ND	ug/L	0.10	1.0	6/18/03	4:15	D. Harris	8270C-SIM	8304
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	6/18/03	4:15	D. Harris	8270C-SIM	8304
Fluoranthene	ND	ug/L	0.10	1.0	6/18/03	4:15	D. Harris	8270C-SIM	8304
Fluorene	ND	ug/L	0.10	1.0	6/18/03	4:15	D. Harris	8270C-SIM	8304
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	6/18/03	4:15	D. Harris	8270C-SIM	8304
2-Methylnaphthalene	ND	ug/L	0.10	1.0	6/18/03	4:15	D. Harris	8270C-SIM	8304
Naphthalene	ND	ug/L	0.10	1.0	6/18/03	4:15	D. Harris	8270C-SIM	8304
Phenanthrene	ND	ug/L	0.10	1.0	6/18/03	4:15	D. Harris	8270C-SIM	8304
Pyrene	ND	ug/L	0.10	1.0	6/18/03	4:15	D. Harris	8270C-SIM	8304
1-Methylnaphthalene	ND	ug/L	0.10	1.0	6/18/03	4:15	D. Harris	8270C-SIM	8304

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

ANALYTICAL REPORT

Laboratory Number: 03-A89508
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	0.10	1.0	6/10/03	14:37	S. Overton	300	4730
Nitrite-N as N	ND	mg/L	0.10	1.0	6/10/03	14:37	S. Overton	300	4730
Ortho Phosphate as P	0.674	mg/L	0.100	1.0	6/11/03	8:25	T. Beverly	365.2	4723

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	990. ml	1.0 ml	6/13/03		M. Cauthen	3510C
Fla Pro	1000 ml	2.0 ml	6/13/03		M. Cauthen	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	107.	82. - 142.
TPH Surr, C-35	97.	55. - 118.
BTEX/GRO Surr., a,a,a-TFT	97.	69. - 129.
BNA Surr-Nitrobenzene-d5	15. #	34. - 107.
BNA Surr-2-Fluorobiphenyl	81.	40. - 96.
BNA Surr-Terphenyl-d14	65.	26. - 106.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
BNA surrogates out of range due to sample matrix.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

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

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: KAREN BAER

Lab Number: 03-A89509
Sample ID: CEF-46-7I
Sample Type: Water
Site ID:

Date Collected: 6/ 9/03
Time Collected: 16:33
Date Received: 6/10/03
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	678.	ug/L	25.0	25.0	6/11/03	19:26	I. Ahmed	8021B	6134
Ethylbenzene	123.	ug/L	1.0	1.0	6/11/03	12:50	I. Ahmed	8021B	4959
Toluene	51.6	ug/L	1.0	1.0	6/11/03	12:50	I. Ahmed	8021B	4959
Xylenes (Total)	752.	ug/L	25.0	25.0	6/11/03	19:26	I. Ahmed	8021B	6134
Methyl-t-butylether	4190	ug/L	25.0	25.0	6/11/03	19:26	I. Ahmed	8021B	6134
TRPH	4080	ug/L	1000	5.0	6/17/03	12:36	M.Jarrett	FPRO	9365
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	6/18/03	6:00	D. Harris	8270C-SIM	8304
Acenaphthylene	ND	ug/L	0.10	1.0	6/18/03	6:00	D. Harris	8270C-SIM	8304
Anthracene	ND	ug/L	0.10	1.0	6/18/03	6:00	D. Harris	8270C-SIM	8304
Benzo(a)anthracene	ND	ug/L	0.10	1.0	6/18/03	6:00	D. Harris	8270C-SIM	8304
Benzo(a)pyrene	ND	ug/L	0.10	1.0	6/18/03	6:00	D. Harris	8270C-SIM	8304
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	6/18/03	6:00	D. Harris	8270C-SIM	8304
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	6/18/03	6:00	D. Harris	8270C-SIM	8304
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	6/18/03	6:00	D. Harris	8270C-SIM	8304
Chrysene	ND	ug/L	0.10	1.0	6/18/03	6:00	D. Harris	8270C-SIM	8304
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	6/18/03	6:00	D. Harris	8270C-SIM	8304
Fluoranthene	ND	ug/L	0.10	1.0	6/18/03	6:00	D. Harris	8270C-SIM	8304
Fluorene	ND	ug/L	0.10	1.0	6/18/03	6:00	D. Harris	8270C-SIM	8304
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	6/18/03	6:00	D. Harris	8270C-SIM	8304
2-Methylnaphthalene	0.24	ug/L	0.10	1.0	6/18/03	6:00	D. Harris	8270C-SIM	8304
Naphthalene	32.4	ug/L	0.50	5.0	6/18/03	11:37	D. Harris	8270C-SIM	8304
Phenanthrene	ND	ug/L	0.10	1.0	6/18/03	6:00	D. Harris	8270C-SIM	8304
Pyrene	ND	ug/L	0.10	1.0	6/18/03	6:00	D. Harris	8270C-SIM	8304
1-Methylnaphthalene	0.42	ug/L	0.10	1.0	6/18/03	6:00	D. Harris	8270C-SIM	8304

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

ANALYTICAL REPORT

Laboratory Number: 03-A89509
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	0.50	5.0	6/10/03	14:37	S. Overton	300	4730
Nitrite-N as N	ND	mg/L	0.50	5.0	6/10/03	14:37	S. Overton	300	4730
Ortho Phosphate as P	ND	mg/L	0.100	1.0	6/11/03	8:25	T. Beverly	365.2	4723

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	970. ml	1.0 ml	6/13/03		M. Cauthen	3510C
Fla Pro	1000 ml	2.0 ml	6/13/03		M. Cauthen	FDEP

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	87.	69. - 129.
BNA Surr-Nitrobenzene-d5	130. #	34. - 107.
BNA Surr-2-Fluorobiphenyl	82.	40. - 96.
BNA Surr-Terphenyl-d14	93.	26. - 106.

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

ANALYTICAL REPORT

Laboratory Number: 03-A89509
Sample ID: CEF-46-7I
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.

BNA PQL's elevated due to sample matrix.

BNA surrogates out of range due to sample matrix.

Florida-pro surrogate recovery was diluted out due to sample matrix.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

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

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: KAREN BAER

Lab Number: 03-A89510
Sample ID: CEF-46-1S
Sample Type: Water
Site ID:

Date Collected: 6/ 9/03
Time Collected: 17:24
Date Received: 6/10/03
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	262.	ug/L	5.00	5.0	6/11/03	13:21	I. Ahmed	8021B	4959
Ethylbenzene	626.	ug/L	5.0	5.0	6/11/03	13:21	I. Ahmed	8021B	4959
Toluene	318.	ug/L	5.0	5.0	6/11/03	13:21	I. Ahmed	8021B	4959
Xylenes (Total)	1070	ug/L	5.0	5.0	6/11/03	13:21	I. Ahmed	8021B	4959
Methyl-t-butylether	511.	ug/L	5.0	5.0	6/11/03	13:21	I. Ahmed	8021B	4959
TRPH	33200	ug/L	4440	20.0	6/17/03	11:25	M.Jarrett	FPRO	9886
EXTRACTABLE ORGANICS									
Acenaphthene	0.29	ug/L	0.10	1.0	6/18/03	6:34	D. Harris	8270C-SIM	8304
Acenaphthylene	ND	ug/L	0.10	1.0	6/18/03	6:34	D. Harris	8270C-SIM	8304
Anthracene	ND	ug/L	0.10	1.0	6/18/03	6:34	D. Harris	8270C-SIM	8304
Benzo(a)anthracene	ND	ug/L	0.10	1.0	6/18/03	6:34	D. Harris	8270C-SIM	8304
Benzo(a)pyrene	ND	ug/L	0.10	1.0	6/18/03	6:34	D. Harris	8270C-SIM	8304
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	6/18/03	6:34	D. Harris	8270C-SIM	8304
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	6/18/03	6:34	D. Harris	8270C-SIM	8304
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	6/18/03	6:34	D. Harris	8270C-SIM	8304
Chrysene	ND	ug/L	0.10	1.0	6/18/03	6:34	D. Harris	8270C-SIM	8304
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	6/18/03	6:34	D. Harris	8270C-SIM	8304
Fluoranthene	ND	ug/L	0.10	1.0	6/18/03	6:34	D. Harris	8270C-SIM	8304
Fluorene	0.22	ug/L	0.10	1.0	6/18/03	6:34	D. Harris	8270C-SIM	8304
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	6/18/03	6:34	D. Harris	8270C-SIM	8304
2-Methylnaphthalene	162.	ug/L	10.0	100.	6/18/03	12:11	D. Harris	8270C-SIM	8304
Naphthalene	947.	ug/L	10.0	100.	6/18/03	12:11	D. Harris	8270C-SIM	8304
Phenanthrene	ND	ug/L	0.10	1.0	6/18/03	6:34	D. Harris	8270C-SIM	8304
Pyrene	ND	ug/L	0.10	1.0	6/18/03	6:34	D. Harris	8270C-SIM	8304
1-Methylnaphthalene	136.	ug/L	10.0	100.	6/18/03	12:11	D. Harris	8270C-SIM	8304

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

ANALYTICAL REPORT

Laboratory Number: 03-A89510
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	0.10	1.0	6/10/03	14:37	S. Overton	300	4730
Nitrite-N as N	ND	mg/L	0.10	1.0	6/10/03	14:37	S. Overton	300	4730
Ortho Phosphate as P	ND	mg/L	0.100	1.0	6/11/03	8:25	T. Beverly	365.2	4723

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	950. ml	1.0 ml	6/13/03		M. Cauthen	3510C
Fla Pro	900. ml	2.0 ml	6/13/03		M. Cauthen	FDEP

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	120.	69. - 129.
BNA Surr-Nitrobenzene-d5	93.	34. - 107.
BNA Surr-2-Fluorobiphenyl	72.	40. - 96.
BNA Surr-Terphenyl-d14	47.	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.
BNA PQL's elevated due to sample matrix.
Trph-d surrogate recovery was diluted out due to sample matrix.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

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

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: KAREN BAER

Lab Number: 03-A89511
Sample ID: Trip Blank
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 6/10/03
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	6/12/03	4:59	F.Gundi	8021B	5696
Ethylbenzene	ND	ug/L	1.0	1.0	6/12/03	4:59	F.Gundi	8021B	5696
Toluene	ND	ug/L	1.0	1.0	6/12/03	4:59	F.Gundi	8021B	5696
Xylenes (Total)	ND	ug/L	1.0	1.0	6/12/03	4:59	F.Gundi	8021B	5696
Methyl-t-butylether	ND	ug/L	1.0	1.0	6/12/03	4:59	F.Gundi	8021B	5696

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.

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 1
Laboratory Receipt Date: 6/10/03

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	< 0.0010	0.0428	0.0500	86	42. - 150.	5009	03-a89814
Toluene	mg/kg	< 0.0010	0.0423	0.0500	85	34. - 149.	5009	blank
Ethylbenzene	mg/kg	< 0.0010	0.0429	0.0500	86	31. - 154.	5009	03-a89814
Xylenes, total	mg/kg	< 0.0010	0.0855	0.1000	86	55. - 142.	5009	03-a89814
MTBE	mg/kg	< 0.005	0.047	0.050	94	36. - 151.	5009	03-a89814
Benzene	mg/l	< 0.00100	0.0362	0.0500	72	60. - 143.	4959	03-A89606
Benzene	mg/l	0.00480	0.0607	0.0500	112	60. - 143.	5696	03-A89991
Toluene	mg/l	< 0.0010	0.0353	0.0500	71	62. - 139.	4959	03-A89606
Toluene	mg/l	< 0.0010	0.0563	0.0500	113	62. - 139.	5696	03-A89991
Ethylbenzene	mg/l	< 0.0010	0.0350	0.0500	70	61. - 138.	4959	03-A89606
Ethylbenzene	mg/l	0.0010	0.0540	0.0500	106	61. - 138.	5696	03-A89991
Xylenes (Total)	mg/l	< 0.0010	0.0693	0.100	69	59. - 137.	4959	03-A89606
Xylenes (Total)	mg/l	0.0051	0.107	0.100	102	59. - 137.	5696	03-A89991
Methyl-t-butylether	mg/l	< 0.0010	0.0351	0.0500	70	60. - 138.	4959	03-A89606
TRPH	mg/l	< 0.100	0.466	0.430	108#	44. - 101.	9365	BLANK
TRPH	mg/l	< 0.100	0.392	0.430	91	44. - 101.	9886	BLANK
BTEX/GRO Surr., a,a,a-TFT	% Recovery				96	69 - 129	4959	
BTEX/GRO Surr., a,a,a-TFT	% Recovery				101	69 - 129	5696	

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
EXTRACTABLE PARAMETERS								
Acenaphthene	mg/l	< 0.00010	0.00103	0.00100	103	28. - 106.	8304	Blank

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 2
Laboratory Receipt Date: 6/10/03

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
Acenaphthene	mg/kg	0.00726	0.0327	0.0330	77	4. - 135.	8311	03-A89514
Acenaphthylene	mg/l	< 0.00010	0.00097	0.00100	97	26. - 106.	8304	Blank
Acenaphthylene	mg/kg	0.00363	0.0280	0.0330	74	2. - 145.	8311	03-A89514
Anthracene	mg/l	< 0.00010	0.00113	0.00100	113	30. - 116.	8304	Blank
Anthracene	mg/kg	0.0148	0.0393	0.0330	74	9. - 143.	8311	03-A89514
Benzo(a)anthracene	mg/l	< 0.00010	0.00140	0.00100	140#	38. - 128.	8304	Blank
Benzo(a)anthracene	mg/kg	< 0.00330	0.0353	0.0330	107	45. - 119.	8311	03-A89514
Benzo(a)pyrene	mg/l	< 0.00010	0.00110	0.00100	110	34. - 117.	8304	Blank
Benzo(a)pyrene	mg/kg	< 0.00330	0.0234	0.0330	71	10. - 128.	8311	03-A89514
Benzo(b)fluoranthene	mg/l	< 0.00010	0.00121	0.00100	121	37. - 132.	8304	Blank
Benzo(b)fluoranthene	mg/kg	< 0.00330	0.0284	0.0330	86	20. - 135.	8311	03-A89514
Benzo(g,h,i)perylene	mg/l	< 0.00010	0.00131	0.00100	131#	25. - 125.	8304	Blank
Benzo(g,h,i)perylene	mg/kg	< 0.00330	0.0221	0.0330	67	10. - 152.	8311	03-A89514
Benzo(k)fluoranthene	mg/l	< 0.00010	0.00152	0.00100	152#	35. - 128.	8304	Blank
Benzo(k)fluoranthene	mg/kg	< 0.00330	0.0333	0.0330	101	18. - 128.	8311	03-A89514
Chrysene	mg/l	< 0.00010	0.00140	0.00100	140#	42. - 126.	8304	Blank
Chrysene	mg/kg	< 0.00330	0.0307	0.0330	93	8. - 154.	8311	03-A89514
Dibenz(a,h)anthracene	mg/l	< 0.00010	0.00118	0.00100	118	31. - 128.	8304	Blank
Dibenz(a,h)anthracene	mg/kg	< 0.00330	0.0195	0.0330	59	14. - 138.	8311	03-A89514
Fluoranthene	mg/l	< 0.00010	0.00140	0.00100	140#	35. - 125.	8304	Blank
Fluoranthene	mg/kg	0.00792	0.0380	0.0330	91	4. - 163.	8311	03-A89514
Fluorene	mg/l	< 0.00010	0.00109	0.00100	109	30. - 112.	8304	Blank
Fluorene	mg/kg	0.0634	0.0865	0.0330	70	6. - 147.	8311	03-A89514
Indeno(1,2,3-cd)pyrene	mg/l	< 0.00010	0.00124	0.00100	124	31. - 124.	8304	Blank
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.00330	0.0208	0.0330	63	6. - 139.	8311	03-A89514
2-Methylnaphthalene	mg/l	< 0.00010	0.00087	0.00100	87	25. - 113.	8304	Blank
Naphthalene	mg/l	< 0.00010	0.00095	0.00100	95	9. - 120.	8304	Blank
Naphthalene	mg/kg	0.0676	0.0739	0.0330	19	12. - 118.	8311	03-A89514
Phenanthrene	mg/l	< 0.00010	0.00128	0.00100	128#	34. - 116.	8304	Blank
Phenanthrene	mg/kg	0.0422	0.0673	0.0330	76	13. - 134.	8311	03-A89514

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 3
Laboratory Receipt Date: 6/10/03

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
Pyrene	mg/l	< 0.00010	0.00152	0.00100	152#	35. - 118.	8304	Blank
Pyrene	mg/kg	0.00990	0.0389	0.0330	88	10. - 149.	8311	03-A89514
1-Methylnaphthalene	mg/l	< 0.00010	0.00090	0.00100	90	31. - 112.	8304	Blank
BNA Surr-Nitrobenzene-d5	% Rec				92	34. - 107.	8304	
BNA Surr-2-Fluorobiphenyl	% Rec				101	40. - 96.	8304	
BNA Surr-Terphenyl-d14	% Rec				152	26. - 106.	8304	

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
MISC PARAMETERS								
Nitrate-N as N	mg/l	0.13	3.27	3.00	105	80 - 120	4730	03-A89394
Nitrite-N as N	mg/l	< 0.10	3.10	3.00	103	80 - 120	4730	03-A89394
Ortho Phosphate as P	mg/l	< 0.100	1.08	1.00	108	80 - 120	4723	03-A89510

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
Benzene	mg/kg	0.0428	0.0340	22.92	30.	5009
Toluene	mg/kg	0.0423	0.0339	22.05	35.	5009
Ethylbenzene	mg/kg	0.0429	0.0337	24.02	37.	5009
Xylenes, total	mg/kg	0.0855	0.0667	24.70	47.	5009
MTBE	mg/kg	0.047	0.040	16.09	46.	5009
Benzene	mg/l	0.0362	0.0398	9.47	23.	4959

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 4
Laboratory Receipt Date: 6/10/03

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Benzene	mg/l	0.0607	0.0643	5.76	23.	5696
Toluene	mg/l	0.0353	0.0391	10.22	24.	4959
Toluene	mg/l	0.0563	0.0603	6.86	24.	5696
Ethylbenzene	mg/l	0.0350	0.0389	10.55	24.	4959
Ethylbenzene	mg/l	0.0540	0.0595	9.69	24.	5696
Xylenes (Total)	mg/l	0.0693	0.0770	10.53	25.	4959
Xylenes (Total)	mg/l	0.107	0.117	8.93	25.	5696
Methyl-t-butylether	mg/l	0.0351	0.0394	11.54	24.	4959
Methyl-t-butylether	mg/l	0.0550	0.0575	4.44	24.	5696
TRPH	mg/l	0.466	0.420	10.38	41.	9365
TRPH	mg/l	0.392	0.606	42.89#	41.	9886
BTEX/GRO Surr., a,a,a-TFT	% Recovery		96.			4959
BTEX/GRO Surr., a,a,a-TFT	% Recovery		99.			5696

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00103	0.00083	21.51	33.	8304
Acenaphthene	mg/kg	0.0327	0.0317	3.11	50.	8311
Pyrene	mg/l	0.00152	0.00121	22.71	32.	8304
Pyrene	mg/kg	0.0389	0.0360	7.74	39.	8311
BNA Surr-Nitrobenzene-d5	% Rec		77.			8304
BNA Surr-Nitrobenzene-d5	% Rec		61.			8311
BNA Surr-2-Fluorobiphenyl	% Rec		82.			8304
BNA Surr-2-Fluorobiphenyl	% Rec		68.			8311
BNA Surr-Terphenyl-d14	% Rec		122.			8304
BNA Surr-Terphenyl-d14	% Rec		82.			8311

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 5
Laboratory Receipt Date: 6/10/03

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
MISC PARAMETERS						
Nitrate-N as N	mg/l	3.27	3.30	0.91	20	4730
Nitrite-N as N	mg/l	3.10	3.09	0.32	20	4730
Ortho Phosphate as P	mg/l	1.08	1.17	8.00	20	4723

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Benzene	mg/kg	0.1000	0.0948	95	71 - 132	5009
Toluene	mg/kg	0.1000	0.0938	94	68 - 129	5009
Ethylbenzene	mg/kg	0.1000	0.0943	94	71 - 131	5009
Xylenes, total	mg/kg	0.2000	0.1857	93	66 - 131	5009
Xylenes, total	mg/kg	0.2000	0.1768	88	66 - 131	8574
MTBE	mg/kg	0.100	0.093	93	56 - 140	5009
TRPH	mg/kg	17.0	19.0	112	63 - 153	8361
Benzene	mg/l	0.100	0.0951	95	74 - 120	4959
Benzene	mg/l	0.100	0.0827	83	74 - 120	6134
Benzene	mg/l	0.100	0.0992	99	74 - 120	5696
Toluene	mg/l	0.100	0.0940	94	73 - 118	4959
Toluene	mg/l	0.100	0.0998	100	73 - 118	5696
Ethylbenzene	mg/l	0.100	0.0936	94	72 - 118	4959
Ethylbenzene	mg/l	0.100	0.0975	98	72 - 118	5696
Xylenes (Total)	mg/l	0.200	0.187	94	72 - 116	4959
Xylenes (Total)	mg/l	0.200	0.165	82	72 - 116	6134
Xylenes (Total)	mg/l	0.200	0.194	97	72 - 116	5696
Methyl-t-butylether	mg/l	0.100	0.101	101	64 - 124	4959
Methyl-t-butylether	mg/l	0.100	0.0855	86	64 - 124	6134

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 6
Laboratory Receipt Date: 6/10/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Methyl-t-butylether	mg/l	0.100	0.0983	98	64 - 124	5696
TRPH	mg/l	0.430	0.544	127 #	55 - 118	9365
TRPH	mg/l	0.430	0.351	82	55 - 118	9886
BTEX/GRO Surr., a,a,a-TFT	% Recovery			97	69 - 129	4959
BTEX/GRO Surr., a,a,a-TFT	% Recovery			89	69 - 129	6134
BTEX/GRO Surr., a,a,a-TFT	% Recovery			94	69 - 129	5696

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00100	0.00088	88	28 - 106	8304
Acenaphthene	mg/kg	0.0330	0.0251	76	26 - 106	8311
Acenaphthylene	mg/l	0.00100	0.00082	82	26 - 106	8304
Acenaphthylene	mg/kg	0.0330	0.0231	70	23 - 113	8311
Anthracene	mg/l	0.00100	0.00095	95	30 - 116	8304
Anthracene	mg/kg	0.0330	0.0238	72	33 - 108	8311
Benzo(a)anthracene	mg/l	0.00100	0.00117	117	38 - 128	8304
Benzo(a)anthracene	mg/kg	0.0330	0.0251	76	47 - 119	8311
Benzo(a)pyrene	mg/l	0.00100	0.00093	93	34 - 117	8304
Benzo(a)pyrene	mg/kg	0.0330	0.0191	58	37 - 106	8311
Benzo(b)fluoranthene	mg/l	0.00100	0.00108	108	37 - 132	8304
Benzo(b)fluoranthene	mg/kg	0.0330	0.0290	88	43 - 121	8311
Benzo(g,h,i)perylene	mg/l	0.00100	0.00112	112	28 - 122	8304
Benzo(g,h,i)perylene	mg/kg	0.0330	0.0195	59	23 - 124	8311
Benzo(k)fluoranthene	mg/l	0.00100	0.00136	136 #	35 - 128	8304
Benzo(k)fluoranthene	mg/kg	0.0330	0.0304	92	40 - 112	8311
Chrysene	mg/l	0.00100	0.00123	123	42 - 126	8304
Chrysene	mg/kg	0.0330	0.0274	83	48 - 117	8311

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 7
Laboratory Receipt Date: 6/10/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Dibenz(a,h)anthracene	mg/l	0.00100	0.00108	108	35 - 124	8304
Dibenz(a,h)anthracene	mg/kg	0.0330	0.0191	58	30 - 129	8311
Fluoranthene	mg/l	0.00100	0.00117	117	35 - 125	8304
Fluoranthene	mg/kg	0.0330	0.0264	80	40 - 119	8311
Fluorene	mg/l	0.00100	0.00091	91	30 - 112	8304
Fluorene	mg/kg	0.0330	0.0248	75	29 - 112	8311
Indeno(1,2,3-cd)pyrene	mg/l	0.00100	0.00108	108	34 - 121	8304
Indeno(1,2,3-cd)pyrene	mg/kg	0.0330	0.0195	59	30 - 125	8311
2-Methylnaphthalene	mg/l	0.00100	0.00074	74	31 - 108	8304
2-Methylnaphthalene	mg/kg	0.0330	0.0231	70	31 - 115	8311
Naphthalene	mg/l	0.00100	0.00105	105	9 - 120	8304
Naphthalene	mg/kg	0.0330	0.0251	76	23 - 105	8311
Phenanthrene	mg/l	0.00100	0.00108	108	34 - 116	8304
Phenanthrene	mg/kg	0.0330	0.0264	80	36 - 107	8311
Pyrene	mg/l	0.00100	0.00129	129 #	35 - 118	8304
Pyrene	mg/kg	0.0330	0.0290	88	38 - 113	8311
1-Methylnaphthalene	mg/l	0.00100	0.00075	75	31 - 112	8304
1-Methylnapthalene	mg/kg	0.0330	0.0234	71	35 - 113	8311
BNA Surr-Nitrobenzene-d5	% Rec			82	34 - 107	8304
BNA Surr-2-Fluorobiphenyl	% Rec			88	40 - 96	8304
BNA Surr-Terphenyl-d14	% Rec			120	26 - 106	8304

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
MISC PARAMETERS						
Nitrate-N as N	mg/l	3.00	2.96	99	90 - 110	4730
Nitrite-N as N	mg/l	3.00	2.90	97	90 - 110	4730
Ortho Phosphate as P	mg/l	1.00	1.00	100	90 - 110	4723

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 8
Laboratory Receipt Date: 6/10/03

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Nitrate-N as N	mg/l	< 0.10	< 0.10	N/A	15.	4730	03-A89510
Nitrite-N as N	mg/l	< 0.10	< 0.10	N/A	15.	4730	03-A89510

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
Benzene	< 0.0010	mg/kg	5009	6/11/03	14:03
Toluene	< 0.0010	mg/kg	5009	6/11/03	14:03
Ethylbenzene	< 0.0010	mg/kg	5009	6/11/03	14:03
Xylenes, total	< 0.0010	mg/kg	5009	6/11/03	14:03
Xylenes, total	< 0.0010	mg/kg	8574	6/13/03	10:49
MTBE	< 0.005	mg/kg	5009	6/11/03	14:03
TRPH	< 5.00	mg/kg	8361	6/16/03	15:31
Benzene	< 0.00060	mg/l	4959	6/11/03	2:01
Benzene	< 0.00060	mg/l	6134	6/11/03	18:55
Benzene	< 0.00060	mg/l	5696	6/12/03	4:29
Toluene	< 0.0006	mg/l	4959	6/11/03	2:01
Toluene	< 0.0006	mg/l	5696	6/12/03	4:29
Ethylbenzene	< 0.0006	mg/l	4959	6/11/03	2:01
Ethylbenzene	< 0.0006	mg/l	5696	6/12/03	4:29
Xylenes (Total)	< 0.0010	mg/l	4959	6/11/03	2:01
Xylenes (Total)	< 0.0010	mg/l	6134	6/11/03	18:55
Xylenes (Total)	< 0.0010	mg/l	5696	6/12/03	4:29
Methyl-t-butylether	< 0.0006	mg/l	4959	6/11/03	2:01
Methyl-t-butylether	< 0.0006	mg/l	6134	6/11/03	18:55
Methyl-t-butylether	< 0.0006	mg/l	5696	6/12/03	4:29
TRPH	< 0.100	mg/l	9365	6/15/03	7:13
TRPH	< 0.100	mg/l	9886	6/17/03	4:21

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 9
Laboratory Receipt Date: 6/10/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
TPH Surr., O-Terphenyl	133.	% Recovery	9365	6/15/03	7:13
TPH Surr, C-35	121.	% Recovery	9365	6/15/03	7:13
UST surr-Trifluorotoluene	86.	% Recovery	5009	6/11/03	14:03
UST surr-Trifluorotoluene	89.	% Recovery	8574	6/13/03	10:49
BTEX/GRO Surr., a,a,a-TFT	99.	% Recovery	4959	6/11/03	2:01
BTEX/GRO Surr., a,a,a-TFT	85.	% Recovery	6134	6/11/03	18:55
BTEX/GRO Surr., a,a,a-TFT	102.	% Recovery	5696	6/12/03	4:29

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
EXTRACTABLE PARAMETERS					
Acenaphthene	< 0.00010	mg/l	8304	6/17/03	17:33
Acenaphthene	< 0.00330	mg/kg	8311	6/17/03	9:27
Acenaphthylene	< 0.00010	mg/l	8304	6/17/03	17:33
Acenaphthylene	< 0.00330	mg/kg	8311	6/17/03	9:27
Anthracene	< 0.00010	mg/l	8304	6/17/03	17:33
Anthracene	< 0.00330	mg/kg	8311	6/17/03	9:27
Benzo(a)anthracene	< 0.00010	mg/l	8304	6/17/03	17:33
Benzo(a)anthracene	< 0.00330	mg/kg	8311	6/17/03	9:27
Benzo(a)pyrene	< 0.00010	mg/l	8304	6/17/03	17:33
Benzo(a)pyrene	0.00462	mg/kg	8311	6/17/03	9:27
Benzo(b)fluoranthene	< 0.00010	mg/l	8304	6/17/03	17:33
Benzo(b)fluoranthene	< 0.00330	mg/kg	8311	6/17/03	9:27
Benzo(g,h,i)perylene	< 0.00010	mg/l	8304	6/17/03	17:33
Benzo(g,h,i)perylene	0.00561	mg/kg	8311	6/17/03	9:27
Benzo(k)fluoranthene	< 0.00010	mg/l	8304	6/17/03	17:33

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 10
Laboratory Receipt Date: 6/10/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Benzo(k)fluoranthene	< 0.00330	mg/kg	8311	6/17/03	9:27
Chrysene	< 0.00010	mg/l	8304	6/17/03	17:33
Chrysene	< 0.00330	mg/kg	8311	6/17/03	9:27
Dibenz(a,h)anthracene	< 0.00010	mg/l	8304	6/17/03	17:33
Dibenz(a,h)anthracene	0.00726	mg/kg	8311	6/17/03	9:27
Fluoranthene	< 0.00010	mg/l	8304	6/17/03	17:33
Fluoranthene	< 0.00330	mg/kg	8311	6/17/03	9:27
Fluorene	< 0.00010	mg/l	8304	6/17/03	17:33
Fluorene	< 0.00330	mg/kg	8311	6/17/03	9:27
Indeno(1,2,3-cd)pyrene	< 0.00010	mg/l	8304	6/17/03	17:33
Indeno(1,2,3-cd)pyrene	0.00693	mg/kg	8311	6/17/03	9:27
2-Methylnaphthalene	< 0.00010	mg/l	8304	6/17/03	17:33
2-Methylnaphthalene	< 0.00330	mg/kg	8311	6/17/03	9:27
Naphthalene	< 0.00010	mg/l	8304	6/17/03	17:33
Naphthalene	< 0.00330	mg/kg	8311	6/17/03	9:27
Phenanthrene	< 0.00010	mg/l	8304	6/17/03	17:33
Phenanthrene	< 0.00330	mg/kg	8311	6/17/03	9:27
Pyrene	< 0.00010	mg/l	8304	6/17/03	17:33
Pyrene	< 0.00330	mg/kg	8311	6/17/03	9:27
1-Methylnaphthalene	< 0.00010	mg/l	8304	6/17/03	17:33
1-Methylnapthalene	< 0.00330	mg/kg	8311	6/17/03	9:27
BNA Surr-Nitrobenzene-d5	90.	% Rec	8304	6/17/03	17:33
BNA Surr-Nitrobenzene-d5	63.	% Rec	8311	6/17/03	9:27
BNA Surr-2-Fluorobiphenyl	94.	% Rec	8304	6/17/03	17:33
BNA Surr-2-Fluorobiphenyl	74.	% Rec	8311	6/17/03	9:27
BNA Surr-Terphenyl-d14	133.	% Rec	8304	6/17/03	17:33
BNA Surr-Terphenyl-d14	87.	% Rec	8311	6/17/03	9:27

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 11
Laboratory Receipt Date: 6/10/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
MISC PARAMETERS					
Nitrate-N as N	< 0.10	mg/l	4730	6/10/03	14:37
Nitrite-N as N	< 0.10	mg/l	4730	6/10/03	14:37
Ortho Phosphate as P	< 0.100	mg/l	4723	6/11/03	8:25

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 335074

TEST AMERICA ANALYTICAL TESTING CORP.-NASHVILLE

COOLER RECEIPT FORM BC# 334510

Client: Terraine, Inc.

Cooler Received On: 6/5/03 And Opened On: 6/5/03 By: Mike McBride

(Signature)

1. Temperature of Cooler when opened 4° Degrees Celsius
2. Were custody seals on outside of cooler?.....YES...NO....NA
   a. If yes, how many, what kind and where: (4) Front/Back
3. Were custody seals on containers and intact?.....NO...YES...NA
4. Were the seals intact, signed, and dated correctly?.....YES...NO...NA
5. Were custody papers inside cooler?.....YES...NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....YES...NO...NA
7. Did you sign the custody papers in the appropriate place?.....YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....YES...NO...NA
10. Did all bottles arrive in good condition(unbroken)?.....YES...NO...NA
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES...NO...NA
12. Did all bottle labels and tags agree with custody papers?.....YES...NO...NA
13. Were correct bottles 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 bottle?.....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.

334510

TestAmerica INCORPORATED

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 _____

NC # 423

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

Project Name: Cecil Field Building 46
Project #: 04-41001/3
Site/Location ID: _____ State: _____
Report To: _____
Invoice To: _____
Quote #: _____ PO#: _____

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

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

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 (FL-PRO)	Nitrate	Nitrite	Orthophosphate					REMARKS
CEF-46-91	6/4/03	13:27					5				4		X	X	X	X	X	X					05A86864
CEF-46-HD	6/4/03	12:06					5				4		X	X	X	X	X	X					65
CEF-46-251	6/4/03	15:24					5				4		X	X	X	X	X	X					66
CEF-46-151	6/4/03	8:56					5				4		X	X	X	X	X	X					67
EB-BLDG46	6/4/03	15:46					4				3		X	X	X	X	X	X					68
Trip Blank													X										86869

Special Instructions:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Karen Bauer	6/4/03				
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	6-6-03	0810

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp: 4°c
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:	Mbeasley	**Phone:**		NC Closed	☑
client Name:	Terraine	**SampleRange:**		Date Closed	6/5/2003
Client contact:	James Young	**SDG:**			
client account:	9463	**Analyst:**	5		
Date Created:	6/5/2003	**Supervisor:**			
NC #:		**NC Type:**			

Process: Documentation Level?

Action: Corrected action not chosen

Corrected By: Kenny Bundy

Closed: ☑ Kbundy

Comments:

Comment added by: Mbeasley on 6/5/2003 10:04:56 AM
NC closed with out comments

****

Comment added by: Kbundy on 6/5/2003 9:57:24 AM
Level 2 project

****

Comment added by: Mbeasley on 6/5/2003 9:41:16 AM
THIS HAS SHORT HOLD, NEED ANSWER QUICKLY

****

Added Without Comments

Paul Buckingham

From: Ashley Morris
Sent: Tuesday, June 03, 2003 8:39 AM
To: Paul Buckingham
Subject: FW: Terraine-Cecil Fields quarterly
Importance: High

Paul-

Looks like this one is coming in today.

Just a heads-up.

Ashley

Ashley B. Morris
Vice President-Client Support Services
800-350-1701
amorris@testamericainc.com

Visit us on the web at www.testamericainc.com!

-----Original Message-----
From: Amanda Leslie
Sent: Tuesday, June 03, 2003 8:04 AM
To: Paul Lane; Mark Hollingsworth; Brian Hoge; Ashley Morris
Subject: FW: Terraine-Cecil Fields quarterly
Importance: High

Heads up! This was sampled Monday and is on its way to Nashville for Tues delivery. Was scheduled to go to Orlando, but Orlando can't do it.

Standard TAT and documentation.

Amanda Leslie
Director of Sales
TestAmerica, Inc.

281 437 2994 office
281 384 5946 cell
ALeslie@testamericainc.com

-----Original Message-----
From: Michelle Williams
Sent: Monday, June 02, 2003 9:29 AM
To: Amanda Leslie
Subject: Terraine-Cecil Fields quarterly

Here ya go. Talk to you this afternoon.

Michelle Williams
Regional Account Manager
TestAmerica Analytical Testing Corporation
(813) 672-0557, (888) 386-9961 office
(813) 672-0567 fax

mwilliams@testamericainc.com

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this e-mail is strictly prohibited. If you have received this communication in error, please notify us immediately by e-mail or by phone (615-726-0177) and delete this material from any computer.

TestAmerica
ANALYTICAL TESTING CORPORATION

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

6/16/03

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: 334510.

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. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980.

Sample Identification	Lab Number	Collection Date
CEF-46-91	03-A86864	6/ 4/03
CEF-46-14D	03-A86865	6/ 4/03
CEF-46-251	03-A86866	6/ 4/03
CEF-46-151	03-A86867	6/ 4/03
EB-BLDG46	03-A86868	6/ 4/03
TRIP BLANK	03-A86869	

TestAmerica
ANALYTICAL TESTING CORPORATION

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

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: _____ Report Date: 6/16/03

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
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

TestAmerica
ANALYTICAL TESTING CORPORATION

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

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/D.ROMERO

Lab Number: 03-A86864
Sample ID: CEF-46-91
Sample Type: Water
Site ID:

Date Collected: 6/ 4/03
Time Collected: 13:27
Date Received: 6/ 5/03
Time Received: 8:10
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	6/ 7/03	9:09	H. Wagner	8021B	1852
Ethylbenzene	ND	ug/L	1.0	1.0	6/ 7/03	9:09	H. Wagner	8021B	1852
Toluene	ND	ug/L	1.0	1.0	6/ 7/03	9:09	H. Wagner	8021B	1852
Xylenes (Total)	ND	ug/L	1.0	1.0	6/ 7/03	9:09	H. Wagner	8021B	1852
Methyl-t-butylether	ND	ug/L	1.0	1.0	6/ 7/03	9:09	H. Wagner	8021B	1852
TRPH	ND	ug/L	211.	1.0	6/11/03	1:58	M.Jarrett	FPRO	3278
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	6/14/03	11:09	D. Harris	8270C-SIM	5660
Acenaphthylene	ND	ug/L	0.10	1.0	6/14/03	11:09	D. Harris	8270C-SIM	5660
Anthracene	ND	ug/L	0.10	1.0	6/14/03	11:09	D. Harris	8270C-SIM	5660
Benzo(a)anthracene	ND	ug/L	0.10	1.0	6/14/03	11:09	D. Harris	8270C-SIM	5660
Benzo(a)pyrene	ND	ug/L	0.10	1.0	6/14/03	11:09	D. Harris	8270C-SIM	5660
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	11:09	D. Harris	8270C-SIM	5660
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	6/14/03	11:09	D. Harris	8270C-SIM	5660
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	11:09	D. Harris	8270C-SIM	5660
Chrysene	ND	ug/L	0.10	1.0	6/14/03	11:09	D. Harris	8270C-SIM	5660
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	6/14/03	11:09	D. Harris	8270C-SIM	5660
Fluoranthene	ND	ug/L	0.10	1.0	6/14/03	11:09	D. Harris	8270C-SIM	5660
Fluorene	ND	ug/L	0.10	1.0	6/14/03	11:09	D. Harris	8270C-SIM	5660
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	6/14/03	11:09	D. Harris	8270C-SIM	5660
2-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	11:09	D. Harris	8270C-SIM	5660
Naphthalene	ND	ug/L	0.10	1.0	6/14/03	11:09	D. Harris	8270C-SIM	5660
Phenanthrene	ND	ug/L	0.10	1.0	6/14/03	11:09	D. Harris	8270C-SIM	5660
Pyrene	ND	ug/L	0.10	1.0	6/14/03	11:09	D. Harris	8270C-SIM	5660
1-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	11:09	D. Harris	8270C-SIM	5660

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

ANALYTICAL REPORT

Laboratory Number: 03-A86864
Sample ID: CEF-46-91
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	0.10	1.0	6/ 6/03	21:53	S. Overton	300	2005
Nitrite-N as N	ND	mg/L	0.30	3.0	6/ 6/03	21:53	S. Overton	300	2005
Ortho Phosphate as P	0.411	mg/L	0.100	1.0	6/ 5/03	14:50	T. Beverly	365.2	1130

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	990. ml	1.0 ml	6/10/03		M. Ricke	3510C
Fla Pro	950. ml	2.0 ml	6/ 6/03		M. Ricke	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	94.	82. - 142.
TPH Surr, C-35	78.	55. - 118.
BTEX/GRO Surr., a,a,a-TFT	88.	69. - 132.
BNA Surr-Nitrobenzene-d5	5. #	34. - 107.
BNA Surr-2-Fluorobiphenyl	80.	40. - 96.
BNA Surr-Terphenyl-d14	93.	26. - 106.

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

ANALYTICAL REPORT

Laboratory Number: 03-A86864
Sample ID: CEF-46-91
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.

BNA Surrogate Nitrobenzene-d5 outside QC limits. Insufficient holding time remaining for re-extraction.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

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

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/D.ROMERO

Lab Number: 03-A86865
Sample ID: CEF-46-14D
Sample Type: Water
Site ID:

Date Collected: 6/ 4/03
Time Collected: 12:06
Date Received: 6/ 5/03
Time Received: 8:10
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	6/ 7/03	9:39	H. Wagner	8021B	1852
Ethylbenzene	ND	ug/L	1.0	1.0	6/ 7/03	9:39	H. Wagner	8021B	1852
Toluene	ND	ug/L	1.0	1.0	6/ 7/03	9:39	H. Wagner	8021B	1852
Xylenes (Total)	ND	ug/L	1.0	1.0	6/ 7/03	9:39	H. Wagner	8021B	1852
Methyl-t-butylether	1.0	ug/L	1.0	1.0	6/ 7/03	9:39	H. Wagner	8021B	1852
TRPH	ND	ug/L	211.	1.0	6/11/03	2:18	M.Jarrett	FPRO	3278
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	6/14/03	11:43	D. Harris	8270C-SIM	5660
Acenaphthylene	ND	ug/L	0.10	1.0	6/14/03	11:43	D. Harris	8270C-SIM	5660
Anthracene	ND	ug/L	0.10	1.0	6/14/03	11:43	D. Harris	8270C-SIM	5660
Benzo(a)anthracene	ND	ug/L	0.10	1.0	6/14/03	11:43	D. Harris	8270C-SIM	5660
Benzo(a)pyrene	ND	ug/L	0.10	1.0	6/14/03	11:43	D. Harris	8270C-SIM	5660
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	11:43	D. Harris	8270C-SIM	5660
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	6/14/03	11:43	D. Harris	8270C-SIM	5660
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	11:43	D. Harris	8270C-SIM	5660
Chrysene	ND	ug/L	0.10	1.0	6/14/03	11:43	D. Harris	8270C-SIM	5660
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	6/14/03	11:43	D. Harris	8270C-SIM	5660
Fluoranthene	ND	ug/L	0.10	1.0	6/14/03	11:43	D. Harris	8270C-SIM	5660
Fluorene	ND	ug/L	0.10	1.0	6/14/03	11:43	D. Harris	8270C-SIM	5660
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	6/14/03	11:43	D. Harris	8270C-SIM	5660
2-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	11:43	D. Harris	8270C-SIM	5660
Naphthalene	ND	ug/L	0.10	1.0	6/14/03	11:43	D. Harris	8270C-SIM	5660
Phenanthrene	ND	ug/L	0.10	1.0	6/14/03	11:43	D. Harris	8270C-SIM	5660
Pyrene	ND	ug/L	0.10	1.0	6/14/03	11:43	D. Harris	8270C-SIM	5660
1-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	11:43	D. Harris	8270C-SIM	5660

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

ANALYTICAL REPORT

Laboratory Number: 03-A86865
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	0.10	1.0	6/ 6/03	21:53	S. Overton	300	2005
Nitrite-N as N	ND	mg/L	0.10	1.0	6/ 6/03	21:53	S. Overton	300	2005
Ortho Phosphate as P	0.102	mg/L	0.100	1.0	6/ 5/03	14:50	T. Beverly	365.2	1130

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	995. ml	1.0 ml	6/10/03		M. Ricke	3510C
Fla Pro	950. ml	2.0 ml	6/ 6/03		M. Ricke	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	99.	82. - 142.
TPH Surr, C-35	95.	55. - 118.
BTEX/GRO Surr., a,a,a-TFT	89.	69. - 132.
BNA Surr-Nitrobenzene-d5	78.	34. - 107.
BNA Surr-2-Fluorobiphenyl	78.	40. - 96.
BNA Surr-Terphenyl-d14	92.	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
ANALYTICAL TESTING CORPORATION

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

ANALYTICAL REPORT

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

Lab Number: 03-A86866
Sample ID: CEF-46-251
Sample Type: Water
Site ID:

Date Collected: 6/ 4/03
Time Collected: 15:24
Date Received: 6/ 5/03
Time Received: 8:10
Page: 1

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

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	6/ 7/03	10:10	H. Wagner	8021B	1852
Ethylbenzene	ND	ug/L	1.0	1.0	6/ 7/03	10:10	H. Wagner	8021B	1852
Toluene	ND	ug/L	1.0	1.0	6/ 7/03	10:10	H. Wagner	8021B	1852
Xylenes (Total)	ND	ug/L	1.0	1.0	6/ 7/03	10:10	H. Wagner	8021B	1852
Methyl-t-butylether	ND	ug/L	1.0	1.0	6/ 7/03	10:10	H. Wagner	8021B	1852
TRPH	ND	ug/L	200.	1.0	6/13/03	1:46	Weatherly	FPRO	7691
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	6/14/03	12:17	D. Harris	8270C-SIM	5660
Acenaphthylene	ND	ug/L	0.10	1.0	6/14/03	12:17	D. Harris	8270C-SIM	5660
Anthracene	ND	ug/L	0.10	1.0	6/14/03	12:17	D. Harris	8270C-SIM	5660
Benzo(a)anthracene	ND	ug/L	0.10	1.0	6/14/03	12:17	D. Harris	8270C-SIM	5660
Benzo(a)pyrene	ND	ug/L	0.10	1.0	6/14/03	12:17	D. Harris	8270C-SIM	5660
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	12:17	D. Harris	8270C-SIM	5660
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	6/14/03	12:17	D. Harris	8270C-SIM	5660
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	12:17	D. Harris	8270C-SIM	5660
Chrysene	ND	ug/L	0.10	1.0	6/14/03	12:17	D. Harris	8270C-SIM	5660
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	6/14/03	12:17	D. Harris	8270C-SIM	5660
Fluoranthene	ND	ug/L	0.10	1.0	6/14/03	12:17	D. Harris	8270C-SIM	5660
Fluorene	ND	ug/L	0.10	1.0	6/14/03	12:17	D. Harris	8270C-SIM	5660
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	6/14/03	12:17	D. Harris	8270C-SIM	5660
2-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	12:17	D. Harris	8270C-SIM	5660
Naphthalene	ND	ug/L	0.10	1.0	6/14/03	12:17	D. Harris	8270C-SIM	5660
Phenanthrene	ND	ug/L	0.10	1.0	6/14/03	12:17	D. Harris	8270C-SIM	5660
Pyrene	ND	ug/L	0.10	1.0	6/14/03	12:17	D. Harris	8270C-SIM	5660
1-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	12:17	D. Harris	8270C-SIM	5660

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

ANALYTICAL REPORT

Laboratory Number: 03-A86866
Sample ID: CEF-46-251
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	0.10	1.0	6/ 6/03	21:53	S. Overton	300	2005
Nitrite-N as N	ND	mg/L	0.10	1.0	6/ 6/03	21:53	S. Overton	300	2005
Ortho Phosphate as P	ND	mg/L	0.100	1.0	6/ 5/03	14:50	T. Beverly	365.2	1130

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	6/10/03		M. Ricke	3510C
Fla Pro	1000 ml	2.0 ml	6/ 9/03		M. Ricke	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	101.	82. - 142.
TPH Surr, C-35	86.	55. - 118.
BTEX/GRO Surr., a,a,a-TFT	90.	69. - 132.
BNA Surr-Nitrobenzene-d5	7. #	34. - 107.
BNA Surr-2-Fluorobiphenyl	79.	40. - 96.
BNA Surr-Terphenyl-d14	92.	26. - 106.

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

ANALYTICAL REPORT

Laboratory Number: 03-A86866
Sample ID: CEF-46-251
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.

BNA surrogate Nitrobenzene-d5 outside QC limits. Insufficient holding time remaining for re-extraction.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

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

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/D.ROMERO

Lab Number: 03-A86867
Sample ID: CEF-46-151
Sample Type: Water
Site ID:

Date Collected: 6/ 4/03
Time Collected: 8:56
Date Received: 6/ 5/03
Time Received: 8:10
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	6/ 7/03	10:41	H. Wagner	8021B	1852
Ethylbenzene	ND	ug/L	1.0	1.0	6/ 7/03	10:41	H. Wagner	8021B	1852
Toluene	ND	ug/L	1.0	1.0	6/ 7/03	10:41	H. Wagner	8021B	1852
Xylenes (Total)	ND	ug/L	1.0	1.0	6/ 7/03	10:41	H. Wagner	8021B	1852
Methyl-t-butylether	ND	ug/L	1.0	1.0	6/ 7/03	10:41	H. Wagner	8021B	1852
TRPH	ND	ug/L	222.	1.0	6/13/03	2:06	Weatherly	FPRO	7691
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	6/14/03	18:06	D. Harris	8270C-SIM	5660
Acenaphthylene	ND	ug/L	0.10	1.0	6/14/03	18:06	D. Harris	8270C-SIM	5660
Anthracene	ND	ug/L	0.10	1.0	6/14/03	18:06	D. Harris	8270C-SIM	5660
Benzo(a)anthracene	ND	ug/L	0.10	1.0	6/14/03	18:06	D. Harris	8270C-SIM	5660
Benzo(a)pyrene	ND	ug/L	0.10	1.0	6/14/03	18:06	D. Harris	8270C-SIM	5660
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	18:06	D. Harris	8270C-SIM	5660
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	6/14/03	18:06	D. Harris	8270C-SIM	5660
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	18:06	D. Harris	8270C-SIM	5660
Chrysene	ND	ug/L	0.10	1.0	6/14/03	18:06	D. Harris	8270C-SIM	5660
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	6/14/03	18:06	D. Harris	8270C-SIM	5660
Fluoranthene	ND	ug/L	0.10	1.0	6/14/03	18:06	D. Harris	8270C-SIM	5660
Fluorene	ND	ug/L	0.10	1.0	6/14/03	18:06	D. Harris	8270C-SIM	5660
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	6/14/03	18:06	D. Harris	8270C-SIM	5660
2-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	18:06	D. Harris	8270C-SIM	5660
Naphthalene	ND	ug/L	0.10	1.0	6/14/03	18:06	D. Harris	8270C-SIM	5660
Phenanthrene	ND	ug/L	0.10	1.0	6/14/03	18:06	D. Harris	8270C-SIM	5660
Pyrene	ND	ug/L	0.10	1.0	6/14/03	18:06	D. Harris	8270C-SIM	5660
1-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	18:06	D. Harris	8270C-SIM	5660

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

ANALYTICAL REPORT

Laboratory Number: 03-A86867
Sample ID: CEF-46-151
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	0.10	1.0	6/ 6/03	21:53	S. Overton	300	2005
Nitrite-N as N	ND	mg/L	0.10	1.0	6/ 6/03	21:53	S. Overton	300	2005
Ortho Phosphate as P	ND	mg/L	0.100	1.0	6/ 5/03	14:50	T. Beverly	365.2	1130

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	985. ml	1.0 ml	6/10/03		M. Ricke	3510C
Fla Pro	900. ml	2.0 ml	6/ 9/03		M. Ricke	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	115.	82. - 142.
TPH Surr, C-35	70.	55. - 118.
BTEX/GRO Surr., a,a,a-TFT	90.	69. - 132.
BNA Surr-Nitrobenzene-d5	103.	34. - 107.
BNA Surr-2-Fluorobiphenyl	102. #	40. - 96.
BNA Surr-Terphenyl-d14	126. #	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
ANALYTICAL TESTING CORPORATION

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

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/D.ROMERO

Lab Number: 03-A86868
Sample ID: EB-BLDG46
Sample Type: Water
Site ID:

Date Collected: 6/ 4/03
Time Collected: 15:46
Date Received: 6/ 5/03
Time Received: 8:10
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	6/ 7/03	11:12	H. Wagner	8021B	1852
Ethylbenzene	ND	ug/L	1.0	1.0	6/ 7/03	11:12	H. Wagner	8021B	1852
Toluene	ND	ug/L	1.0	1.0	6/ 7/03	11:12	H. Wagner	8021B	1852
Xylenes (Total)	ND	ug/L	1.0	1.0	6/ 7/03	11:12	H. Wagner	8021B	1852
Methyl-t-butylether	ND	ug/L	1.0	1.0	6/ 7/03	11:12	H. Wagner	8021B	1852
TRPH	ND	ug/L	200.	1.0	6/13/03	2:26	Weatherly	FPRO	7691
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	6/14/03	14:39	D. Harris	8270C-SIM	5660
Acenaphthylene	ND	ug/L	0.10	1.0	6/14/03	14:39	D. Harris	8270C-SIM	5660
Anthracene	ND	ug/L	0.10	1.0	6/14/03	14:39	D. Harris	8270C-SIM	5660
Benzo(a)anthracene	ND	ug/L	0.10	1.0	6/14/03	14:39	D. Harris	8270C-SIM	5660
Benzo(a)pyrene	ND	ug/L	0.10	1.0	6/14/03	14:39	D. Harris	8270C-SIM	5660
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	14:39	D. Harris	8270C-SIM	5660
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	6/14/03	14:39	D. Harris	8270C-SIM	5660
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	14:39	D. Harris	8270C-SIM	5660
Chrysene	ND	ug/L	0.10	1.0	6/14/03	14:39	D. Harris	8270C-SIM	5660
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	6/14/03	14:39	D. Harris	8270C-SIM	5660
Fluoranthene	ND	ug/L	0.10	1.0	6/14/03	14:39	D. Harris	8270C-SIM	5660
Fluorene	ND	ug/L	0.10	1.0	6/14/03	14:39	D. Harris	8270C-SIM	5660
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	6/14/03	14:39	D. Harris	8270C-SIM	5660
2-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	14:39	D. Harris	8270C-SIM	5660
Naphthalene	ND	ug/L	0.10	1.0	6/14/03	14:39	D. Harris	8270C-SIM	5660
Phenanthrene	ND	ug/L	0.10	1.0	6/14/03	14:39	D. Harris	8270C-SIM	5660
Pyrene	ND	ug/L	0.10	1.0	6/14/03	14:39	D. Harris	8270C-SIM	5660
1-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	14:39	D. Harris	8270C-SIM	5660

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

ANALYTICAL REPORT

Laboratory Number: 03-A86868
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	0.10	1.0	6/ 6/03	21:53	S. Overton	300	2005
Nitrite-N as N	ND	mg/L	0.10	1.0	6/ 6/03	21:53	S. Overton	300	2005
Ortho Phosphate as P	ND	mg/L	0.100	1.0	6/ 5/03	14:50	T. Beverly	365.2	1130

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	980. ml	1.0 ml	6/10/03		M. Ricke	3510C
Fla Pro	1000 ml	2.0 ml	6/ 9/03		M. Ricke	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	112.	82. - 142.
TPH Surr, C-35	51. #	55. - 118.
BTEX/GRO Surr., a,a,a-TFT	89.	69. - 132.
BNA Surr-Nitrobenzene-d5	88.	34. - 107.
BNA Surr-2-Fluorobiphenyl	78.	40. - 96.
BNA Surr-Terphenyl-d14	96.	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
ANALYTICAL TESTING CORPORATION

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

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/D.ROMERO

Lab Number: 03-A86869
Sample ID: TRIP BLANK
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 6/ 5/03
Time Received: 8:10
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	6/ 7/03	8:38	H. Wagner	8021B	1852
Ethylbenzene	ND	ug/L	1.0	1.0	6/ 7/03	8:38	H. Wagner	8021B	1852
Toluene	ND	ug/L	1.0	1.0	6/ 7/03	8:38	H. Wagner	8021B	1852
Xylenes (Total)	ND	ug/L	1.0	1.0	6/ 7/03	8:38	H. Wagner	8021B	1852
Methyl-t-butylether	ND	ug/L	1.0	1.0	6/ 7/03	8:38	H. Wagner	8021B	1852

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	87.	69. - 132.

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
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 1
Laboratory Receipt Date: 6/ 5/03

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	0.0568	0.0500	114	60. - 143.	1852	03-A86864
Toluene	mg/l	< 0.0010	0.0564	0.0500	113	62. - 139.	1852	03-A86864
Ethylbenzene	mg/l	< 0.0010	0.0570	0.0500	114	61. - 138.	1852	03-A86864
Xylenes (Total)	mg/l	< 0.0010	0.112	0.100	112	59. - 137.	1852	03-A86864
Methyl-t-butylether	mg/l	< 0.0010	0.0549	0.0500	110	60. - 138.	1852	03-A86864
TRPH	mg/l	< 0.100	0.345	0.430	80	44. - 101.	3278	blank
TRPH	mg/l	< 0.100	0.336	0.430	78	44. - 101.	7691	blank
BTEX/GRO Surr., a,a,a-TFT	% Recovery				93	69 - 132	1852	

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
EXTRACTABLE PARAMETERS								
Acenaphthene	mg/l	< 0.00010	0.00077	0.00100	77	40. - 114.	5660	Blank
Acenaphthylene	mg/l	< 0.00010	0.00075	0.00100	75	41. - 113.	5660	Blank
Anthracene	mg/l	< 0.00010	0.00076	0.00100	76	48. - 122.	5660	Blank
Benzo(a)anthracene	mg/l	< 0.00010	0.00084	0.00100	84	50. - 127.	5660	Blank
Benzo(a)pyrene	mg/l	< 0.00010	0.00066	0.00100	66	49. - 126.	5660	Blank
Benzo(b)fluoranthene	mg/l	< 0.00010	0.00095	0.00100	95	46. - 126.	5660	Blank
Benzo(g,h,i)perylene	mg/l	< 0.00010	0.00076	0.00100	76	25. - 154.	5660	Blank
Benzo(k)fluoranthene	mg/l	< 0.00010	0.00089	0.00100	89	48. - 133.	5660	Blank
Chrysene	mg/l	< 0.00010	0.00085	0.00100	85	49. - 127.	5660	Blank
Dibenz(a,h)anthracene	mg/l	< 0.00010	0.00066	0.00100	66	31. - 150.	5660	Blank
Fluoranthene	mg/l	< 0.00010	0.00084	0.00100	84	50. - 127.	5660	Blank

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 2
Laboratory Receipt Date: 6/ 5/03

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
Fluorene	mg/l	< 0.00010	0.00076	0.00100	76	45. - 121.	5660	Blank
Indeno(1,2,3-cd)pyrene	mg/l	< 0.00010	0.00069	0.00100	69	26. - 149.	5660	Blank
2-Methylnaphthalene	mg/l	< 0.00010	0.00072	0.00100	72	33. - 112.	5660	Blank
Naphthalene	mg/l	< 0.00010	0.00079	0.00100	79	31. - 103.	5660	Blank
Phenanthrene	mg/l	< 0.00010	0.00085	0.00100	85	47. - 122.	5660	Blank
Pyrene	mg/l	< 0.00010	0.00086	0.00100	86	49. - 127.	5660	Blank
1-Methylnaphthalene	mg/l	< 0.00010	0.00073	0.00100	73	33. - 121.	5660	Blank
BNA Surr-Nitrobenzene-d5	% Rec				78	40. - 127.	5660	
BNA Surr-2-Fluorobiphenyl	% Rec				74	42. - 113.	5660	
BNA Surr-Terphenyl-d14	% Rec				86	41. - 129.	5660	

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
MISC PARAMETERS								
Nitrate-N as N	mg/l	< 0.10	10.3	9.00	114	80 - 120	2005	03-A86864
Nitrite-N as N	mg/l	< 0.30	7.95	9.00	88	80 - 120	2005	03-A86864
Ortho Phosphate as P	mg/l	< 0.100	1.02	1.00	102	80 - 120	1130	03-A86868

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
Benzene	mg/l	0.0568	0.0558	1.78	23.	1852
Toluene	mg/l	0.0564	0.0555	1.61	24.	1852

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 3
Laboratory Receipt Date: 6/ 5/03

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Ethylbenzene	mg/l	0.0570	0.0560	1.77	24.	1852
Xylenes (Total)	mg/l	0.112	0.110	1.80	25.	1852
Methyl-t-butylether	mg/l	0.0549	0.0532	3.15	24.	1852
TRPH	mg/l	0.345	0.371	7.26	41.	3278
BTEX/GRO Surr., a,a,a-TFT	% Recovery		92.			1852

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00077	0.00078	1.29	42.	5660
Pyrene	mg/l	0.00086	0.00089	3.43	39.	5660
BNA Surr-Nitrobenzene-d5	% Rec		80.			5660
BNA Surr-2-Fluorobiphenyl	% Rec		77.			5660
BNA Surr-Terphenyl-d14	% Rec		94.			5660

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
MISC PARAMETERS						
Nitrate-N as N	mg/l	10.3	9.60	7.04	20	2005
Nitrite-N as N	mg/l	7.95	9.54	18.18	20	2005
Ortho Phosphate as P	mg/l	1.02	1.02	0.00	20	1130

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 4
Laboratory Receipt Date: 6/ 5/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Benzene	mg/l	0.100	0.101	101	74 - 120	1852
Toluene	mg/l	0.100	0.100	100	73 - 118	1852
Ethylbenzene	mg/l	0.100	0.102	102	72 - 118	1852
Xylenes (Total)	mg/l	0.200	0.200	100	72 - 116	1852
Methyl-t-butylether	mg/l	0.100	0.104	104	64 - 124	1852
TRPH	mg/l	0.430	0.369	86	55 - 118	3278
TRPH	mg/l	0.430	0.318	74	55 - 118	7691
BTEX/GRO Surr., a,a,a-TFT	% Recovery			92	69 - 132	1852

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00100	0.00077	77	40 - 114	5660
Acenaphthylene	mg/l	0.00100	0.00082	82	41 - 113	5660
Anthracene	mg/l	0.00100	0.00083	83	48 - 122	5660
Benzo(a)anthracene	mg/l	0.00100	0.00097	97	50 - 127	5660
Benzo(a)pyrene	mg/l	0.00100	0.00077	77	49 - 126	5660
Benzo(b)fluoranthene	mg/l	0.00100	0.00091	91	47 - 126	5660
Benzo(g,h,i)perylene	mg/l	0.00100	0.00080	80	29 - 154	5660
Benzo(k)fluoranthene	mg/l	0.00100	0.00093	93	48 - 132	5660
Chrysene	mg/l	0.00100	0.00089	89	49 - 127	5660
Dibenz(a,h)anthracene	mg/l	0.00100	0.00071	71	35 - 149	5660
Fluoranthene	mg/l	0.00100	0.00108	108	50 - 127	5660
Fluorene	mg/l	0.00100	0.00081	81	45 - 121	5660
Indeno(1,2,3-cd)pyrene	mg/l	0.00100	0.00075	75	30 - 148	5660
2-Methylnaphthalene	mg/l	0.00100	0.00073	73	33 - 112	5660

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 5
Laboratory Receipt Date: 6/ 5/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Naphthalene	mg/l	0.00100	0.00077	77	31 - 103	5660
Phenanthrene	mg/l	0.00100	0.00090	90	47 - 122	5660
Pyrene	mg/l	0.00100	0.00133	133 #	49 - 127	5660
1-Methylnaphthalene	mg/l	0.00100	0.00075	75	35 - 120	5660
BNA Surr-Nitrobenzene-d5	% Rec			89	40 - 127	5660
BNA Surr-2-Fluorobiphenyl	% Rec			79	42 - 113	5660
BNA Surr-Terphenyl-d14	% Rec			98	41 - 129	5660

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
MISC PARAMETERS						
Nitrate-N as N	mg/l	3.00	2.94	98	90 - 110	2005
Nitrite-N as N	mg/l	3.00	2.94	98	90 - 110	2005
Ortho Phosphate as P	mg/l	1.00	0.973	97	90 - 110	1130

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Nitrate-N as N	mg/l	< 0.10	< 0.10	N/A	15.	2005	03-A87578
Nitrite-N as N	mg/l	< 0.10	< 0.10	N/A	15.	2005	03-A87578

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
Benzene	< 0.00060	mg/l	1852	6/ 7/03	8:08

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 6
Laboratory Receipt Date: 6/ 5/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Toluene	< 0.0006	mg/l	1852	6/ 7/03	8:08
Ethylbenzene	< 0.0006	mg/l	1852	6/ 7/03	8:08
Xylenes (Total)	< 0.0010	mg/l	1852	6/ 7/03	8:08
Methyl-t-butylether	< 0.0006	mg/l	1852	6/ 7/03	8:08
TRPH	< 0.100	mg/l	3278	6/10/03	17:20
TRPH	< 0.100	mg/l	7691	6/12/03	19:24

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
TPH Surr., O-Terphenyl	90.	% Recovery	3278	6/10/03	17:20
TPH Surr., O-Terphenyl	107.	% Recovery	7691	6/12/03	19:24
TPH Surr, C-35	67.	% Recovery	3278	6/10/03	17:20
TPH Surr, C-35	49.	% Recovery	7691	6/12/03	19:24
BTEX/GRO Surr., a,a,a-TFT	88.	% Recovery	1852	6/ 7/03	8:08

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
EXTRACTABLE PARAMETERS					
Acenaphthene	< 0.00010	mg/l	5660	6/14/03	9:25
Acenaphthylene	< 0.00010	mg/l	5660	6/14/03	9:25
Anthracene	< 0.00010	mg/l	5660	6/14/03	9:25
Benzo(a)anthracene	< 0.00010	mg/l	5660	6/14/03	9:25
Benzo(a)pyrene	< 0.00010	mg/l	5660	6/14/03	9:25
Benzo(b)fluoranthene	< 0.00010	mg/l	5660	6/14/03	9:25

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 7
Laboratory Receipt Date: 6/ 5/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Benzo(g,h,i)perylene	< 0.00010	mg/l	5660	6/14/03	9:25
Benzo(k)fluoranthene	< 0.00010	mg/l	5660	6/14/03	9:25
Chrysene	< 0.00010	mg/l	5660	6/14/03	9:25
Dibenz(a,h)anthracene	< 0.00010	mg/l	5660	6/14/03	9:25
Fluoranthene	< 0.00010	mg/l	5660	6/14/03	9:25
Fluorene	< 0.00010	mg/l	5660	6/14/03	9:25
Indeno(1,2,3-cd)pyrene	< 0.00010	mg/l	5660	6/14/03	9:25
2-Methylnaphthalene	< 0.00010	mg/l	5660	6/14/03	9:25
Naphthalene	< 0.00010	mg/l	5660	6/14/03	9:25
Phenanthrene	< 0.00010	mg/l	5660	6/14/03	9:25
Pyrene	< 0.00010	mg/l	5660	6/14/03	9:25
1-Methylnaphthalene	< 0.00010	mg/l	5660	6/14/03	9:25
BNA Surr-Nitrobenzene-d5	92.	% Rec	5660	6/14/03	9:25
BNA Surr-2-Fluorobiphenyl	87.	% Rec	5660	6/14/03	9:25
BNA Surr-Terphenyl-d14	106.	% Rec	5660	6/14/03	9:25

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
MISC PARAMETERS					
Nitrate-N as N	< 0.10	mg/l	2005	6/ 6/03	21:53
Nitrite-N as N	< 0.10	mg/l	2005	6/ 6/03	21:53
Ortho Phosphate as P	< 0.100	mg/l	1130	6/ 5/03	14:50

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 334510

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: KAREN BAER/DANIEL ROMERO

Lab Number: 03-A87576
Sample ID: CEF-46-24D
Sample Type: Water
Site ID:

Date Collected: 6/ 5/03
Time Collected: 9:03
Date Received: 6/ 6/03
Time Received: 8:10

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	6/ 8/03	14:36	F.Gundi	8021B	2341
Ethylbenzene	ND	ug/L	1.0	1.0	6/ 8/03	14:36	F.Gundi	8021B	2341
Toluene	ND	ug/L	1.0	1.0	6/ 8/03	14:36	F.Gundi	8021B	2341
Xylenes (Total)	ND	ug/L	1.0	1.0	6/ 8/03	14:36	F.Gundi	8021B	2341
Methyl-t-butylether	ND	ug/L	1.0	1.0	6/ 8/03	14:36	F.Gundi	8021B	2341
TRPH	ND	ug/L	100.	1.0	6/13/03	13:09	M.Jarrett	FPRO	6208
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	6/14/03	18:40	D. Harris	8270C-SIM	5660
Acenaphthylene	ND	ug/L	0.10	1.0	6/14/03	18:40	D. Harris	8270C-SIM	5660
Anthracene	ND	ug/L	0.10	1.0	6/14/03	18:40	D. Harris	8270C-SIM	5660
Benzo(a)anthracene	ND	ug/L	0.10	1.0	6/14/03	18:40	D. Harris	8270C-SIM	5660
Benzo(a)pyrene	ND	ug/L	0.10	1.0	6/14/03	18:40	D. Harris	8270C-SIM	5660
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	18:40	D. Harris	8270C-SIM	5660
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	6/14/03	18:40	D. Harris	8270C-SIM	5660
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	18:40	D. Harris	8270C-SIM	5660
Chrysene	ND	ug/L	0.10	1.0	6/14/03	18:40	D. Harris	8270C-SIM	5660
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	6/14/03	18:40	D. Harris	8270C-SIM	5660
Fluoranthene	ND	ug/L	0.10	1.0	6/14/03	18:40	D. Harris	8270C-SIM	5660
Fluorene	ND	ug/L	0.10	1.0	6/14/03	18:40	D. Harris	8270C-SIM	5660
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	6/14/03	18:40	D. Harris	8270C-SIM	5660
2-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	18:40	D. Harris	8270C-SIM	5660
Naphthalene	ND	ug/L	0.10	1.0	6/14/03	18:40	D. Harris	8270C-SIM	5660
Phenanthrene	ND	ug/L	0.10	1.0	6/14/03	18:40	D. Harris	8270C-SIM	5660
Pyrene	ND	ug/L	0.10	1.0	6/14/03	18:40	D. Harris	8270C-SIM	5660
1-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	18:40	D. Harris	8270C-SIM	5660
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/L	0.100	1.0	6/ 6/03	21:53	S. Overton	300	2005
Nitrite-N as N	ND	mg/L	0.10	1.0	6/ 6/03	21:53	S. Overton	300	2005
Ortho Phosphate as P	0.438	mg/L	0.100	1.0	6/ 6/03	15:26	T. Beverly	365.2	1991

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	990. ml	1.0 ml	6/10/03		M. Ricke	3510C
Fla Pro	975. ml	1.0 ml	6/10/03		M. Ricke	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	83.	82. - 142.
TPH Surr, C-35	53. #	55. - 118.
BTEX/GRO Surr., a,a,a-TFT	103.	69. - 132.
BNA Surr-Nitrobenzene-d5	5. #	34. - 107.
BNA Surr-2-Fluorobiphenyl	72.	40. - 96.
BNA Surr-Terphenyl-d14	76.	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.
BNA surrogate Nitrobenzene-d5 outside QC limits. Insufficient holding time remaining for re-extraction.

End of Sample Report.

ANALYTICAL REPORT

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

Lab Number: 03-A87577
Sample ID: CEF-46-5I
Sample Type: Water
Site ID:

Date Collected: 6/ 5/03
Time Collected: 11:06
Date Received: 6/ 6/03
Time Received: 8:10

Project: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Sampler: KAREN BAER/DANIEL ROMERO

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	6/ 9/03	22:34	F.Gundi	8021B	5277
Ethylbenzene	ND	ug/L	1.0	1.0	6/ 9/03	22:34	F.Gundi	8021B	5277
Toluene	ND	ug/L	1.0	1.0	6/ 9/03	22:34	F.Gundi	8021B	5277
Xylenes (Total)	5.2	ug/L	1.0	1.0	6/ 9/03	22:34	F.Gundi	8021B	5277
Methyl-t-butylether	4.6	ug/L	1.0	1.0	6/ 9/03	22:34	F.Gundi	8021B	5277
TRPH	ND	ug/L	106.	1.0	6/13/03	13:29	M.Jarrett	FPRO	6208
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	6/14/03	19:14	D. Harris	8270C-SIM	5660
Acenaphthylene	ND	ug/L	0.10	1.0	6/14/03	19:14	D. Harris	8270C-SIM	5660
Anthracene	ND	ug/L	0.10	1.0	6/14/03	19:14	D. Harris	8270C-SIM	5660
Benzo(a)anthracene	ND	ug/L	0.10	1.0	6/14/03	19:14	D. Harris	8270C-SIM	5660
Benzo(a)pyrene	ND	ug/L	0.10	1.0	6/14/03	19:14	D. Harris	8270C-SIM	5660
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	19:14	D. Harris	8270C-SIM	5660
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	6/14/03	19:14	D. Harris	8270C-SIM	5660
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	19:14	D. Harris	8270C-SIM	5660
Chrysene	ND	ug/L	0.10	1.0	6/14/03	19:14	D. Harris	8270C-SIM	5660
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	6/14/03	19:14	D. Harris	8270C-SIM	5660
Fluoranthene	ND	ug/L	0.10	1.0	6/14/03	19:14	D. Harris	8270C-SIM	5660
Fluorene	ND	ug/L	0.10	1.0	6/14/03	19:14	D. Harris	8270C-SIM	5660
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	6/14/03	19:14	D. Harris	8270C-SIM	5660
2-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	19:14	D. Harris	8270C-SIM	5660
Naphthalene	ND	ug/L	0.10	1.0	6/14/03	19:14	D. Harris	8270C-SIM	5660
Phenanthrene	ND	ug/L	0.10	1.0	6/14/03	19:14	D. Harris	8270C-SIM	5660
Pyrene	ND	ug/L	0.10	1.0	6/14/03	19:14	D. Harris	8270C-SIM	5660
1-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	19:14	D. Harris	8270C-SIM	5660
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/L	0.300	3.0	6/ 6/03	21:53	S. Overton	300	2005
Nitrite-N as N	ND	mg/L	0.30	3.0	6/ 6/03	21:53	S. Overton	300	2005
Ortho Phosphate as P	0.282	mg/L	0.100	1.0	6/ 6/03	15:26	T. Beverly	365.2	1991

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	990. ml	1.0 ml	6/10/03		M. Ricke	3510C
Fla Pro	940. ml	1.0 ml	6/10/03		M. Ricke	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	88.	82. - 142.
TPH Surr, C-35	76.	55. - 118.
BTEX/GRO Surr., a,a,a-TFT	105.	69. - 129.
BNA Surr-Nitrobenzene-d5	86.	34. - 107.
BNA Surr-2-Fluorobiphenyl	86.	40. - 96.
BNA Surr-Terphenyl-d14	72.	26. - 106.

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

End of Sample Report.

ANALYTICAL REPORT

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

Lab Number: 03-A87578
Sample ID: CEF-46-21I
Sample Type: Water
Site ID:

Date Collected: 6/ 5/03
Time Collected: 13:05
Date Received: 6/ 6/03
Time Received: 8:10

Project: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Sampler: KAREN BAER/DANIEL ROMERO

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	6/ 8/03	17:07	F.Gundi	8021B	2341
Ethylbenzene	ND	ug/L	1.0	1.0	6/ 8/03	17:07	F.Gundi	8021B	2341
Toluene	ND	ug/L	1.0	1.0	6/ 8/03	17:07	F.Gundi	8021B	2341
Xylenes (Total)	ND	ug/L	1.0	1.0	6/ 8/03	17:07	F.Gundi	8021B	2341
Methyl-t-butylether	ND	ug/L	1.0	1.0	6/ 8/03	17:07	F.Gundi	8021B	2341
TRPH	ND	ug/L	100.	1.0	6/13/03	13:50	M.Jarrett	FPRO	6208
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	6/14/03	20:23	D. Harris	8270C-SIM	5660
Acenaphthylene	ND	ug/L	0.10	1.0	6/14/03	20:23	D. Harris	8270C-SIM	5660
Anthracene	ND	ug/L	0.10	1.0	6/14/03	20:23	D. Harris	8270C-SIM	5660
Benzo(a)anthracene	ND	ug/L	0.10	1.0	6/14/03	20:23	D. Harris	8270C-SIM	5660
Benzo(a)pyrene	ND	ug/L	0.10	1.0	6/14/03	20:23	D. Harris	8270C-SIM	5660
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	20:23	D. Harris	8270C-SIM	5660
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	6/14/03	20:23	D. Harris	8270C-SIM	5660
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	20:23	D. Harris	8270C-SIM	5660
Chrysene	ND	ug/L	0.10	1.0	6/14/03	20:23	D. Harris	8270C-SIM	5660
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	6/14/03	20:23	D. Harris	8270C-SIM	5660
Fluoranthene	ND	ug/L	0.10	1.0	6/14/03	20:23	D. Harris	8270C-SIM	5660
Fluorene	ND	ug/L	0.10	1.0	6/14/03	20:23	D. Harris	8270C-SIM	5660
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	6/14/03	20:23	D. Harris	8270C-SIM	5660
2-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	20:23	D. Harris	8270C-SIM	5660
Naphthalene	ND	ug/L	0.10	1.0	6/14/03	20:23	D. Harris	8270C-SIM	5660
Phenanthrene	ND	ug/L	0.10	1.0	6/14/03	20:23	D. Harris	8270C-SIM	5660
Pyrene	ND	ug/L	0.10	1.0	6/14/03	20:23	D. Harris	8270C-SIM	5660
1-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	20:23	D. Harris	8270C-SIM	5660
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/L	0.100	1.0	6/ 6/03	21:53	S. Overton	300	2005
Nitrite-N as N	ND	mg/L	0.10	1.0	6/ 6/03	21:53	S. Overton	300	2005
Ortho Phosphate as P	ND	mg/L	0.100	1.0	6/ 6/03	15:26	T. Beverly	365.2	1991

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	985. ml	1.0 ml	6/10/03		M. Ricke	3510C
Fla Pro	960. ml	1.0 ml	6/10/03		M. Ricke	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	85.	82. - 142.
TPH Surr, C-35	70.	55. - 118.
BTEX/GRO Surr., a,a,a-TFT	103.	69. - 132.
BNA Surr-Nitrobenzene-d5	92.	34. - 107.
BNA Surr-2-Fluorobiphenyl	81.	40. - 96.
BNA Surr-Terphenyl-d14	97.	26. - 106.

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

End of Sample Report.

ANALYTICAL REPORT

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

Project: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Sampler: KAREN BAER/DANIEL ROMERO

Lab Number: 03-A87579
Sample ID: CEF-46-12I
Sample Type: Water
Site ID:

Date Collected: 6/ 5/03
Time Collected: 14:33
Date Received: 6/ 6/03
Time Received: 8:10

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	6/ 8/03	17:38	F.Gundi	8021B	2341
Ethylbenzene	ND	ug/L	1.0	1.0	6/ 8/03	17:38	F.Gundi	8021B	2341
Toluene	ND	ug/L	1.0	1.0	6/ 8/03	17:38	F.Gundi	8021B	2341
Xylenes (Total)	ND	ug/L	1.0	1.0	6/ 8/03	17:38	F.Gundi	8021B	2341
Methyl-t-butylether	ND	ug/L	1.0	1.0	6/ 8/03	17:38	F.Gundi	8021B	2341
TRPH	ND	ug/L	100.	1.0	6/13/03	14:10	M.Jarrett	FPRO	6208
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	6/14/03	20:57	D. Harris	8270C-SIM	5660
Acenaphthylene	ND	ug/L	0.10	1.0	6/14/03	20:57	D. Harris	8270C-SIM	5660
Anthracene	ND	ug/L	0.10	1.0	6/14/03	20:57	D. Harris	8270C-SIM	5660
Benzo(a)anthracene	ND	ug/L	0.10	1.0	6/14/03	20:57	D. Harris	8270C-SIM	5660
Benzo(a)pyrene	ND	ug/L	0.10	1.0	6/14/03	20:57	D. Harris	8270C-SIM	5660
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	20:57	D. Harris	8270C-SIM	5660
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	6/14/03	20:57	D. Harris	8270C-SIM	5660
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	20:57	D. Harris	8270C-SIM	5660
Chrysene	ND	ug/L	0.10	1.0	6/14/03	20:57	D. Harris	8270C-SIM	5660
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	6/14/03	20:57	D. Harris	8270C-SIM	5660
Fluoranthene	ND	ug/L	0.10	1.0	6/14/03	20:57	D. Harris	8270C-SIM	5660
Fluorene	ND	ug/L	0.10	1.0	6/14/03	20:57	D. Harris	8270C-SIM	5660
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	6/14/03	20:57	D. Harris	8270C-SIM	5660
2-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	20:57	D. Harris	8270C-SIM	5660
Naphthalene	ND	ug/L	0.10	1.0	6/14/03	20:57	D. Harris	8270C-SIM	5660
Phenanthrene	ND	ug/L	0.10	1.0	6/14/03	20:57	D. Harris	8270C-SIM	5660
Pyrene	ND	ug/L	0.10	1.0	6/14/03	20:57	D. Harris	8270C-SIM	5660
1-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	20:57	D. Harris	8270C-SIM	5660
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/L	0.100	1.0	6/ 7/03	3:35	S. Duncan	300	2006
Nitrite-N as N	ND	mg/L	0.10	1.0	6/ 7/03	3:35	S. Duncan	300	2006
Ortho Phosphate as P	ND	mg/L	0.100	1.0	6/ 6/03	15:26	T. Beverly	365.2	1991

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	980. ml	1.0 ml	6/10/03		M. Ricke	3510C
Fla Pro	975. ml	1.0 ml	6/10/03		M. Ricke	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	80. #	82. - 142.
TPH Surr, C-35	56.	55. - 118.
BTEX/GRO Surr., a,a,a-TFT	103.	69. - 132.
BNA Surr-Nitrobenzene-d5	81.	34. - 107.
BNA Surr-2-Fluorobiphenyl	82.	40. - 96.
BNA Surr-Terphenyl-d14	91.	26. - 106.

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

End of Sample Report.

ANALYTICAL REPORT

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

Lab Number: 03-A87580
Sample ID: CEF-46-13I
Sample Type: Water
Site ID:

Date Collected: 6/ 5/03
Time Collected: 15:14
Date Received: 6/ 6/03
Time Received: 8:10

Project: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Sampler: KAREN BAER/DANIEL ROMERO

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	1.10	ug/L	1.00	1.0	6/ 9/03	23:05	F.Gundi	8021B	5277
Ethylbenzene	ND	ug/L	1.0	1.0	6/ 9/03	23:05	F.Gundi	8021B	5277
Toluene	ND	ug/L	1.0	1.0	6/ 9/03	23:05	F.Gundi	8021B	5277
Xylenes (Total)	ND	ug/L	1.0	1.0	6/ 9/03	23:05	F.Gundi	8021B	5277
Methyl-t-butylether	254.	ug/L	2.0	2.0	6/11/03	0:47	F.Gundi	8021B	5279
TRPH	ND	ug/L	100.	1.0	6/13/03	14:31	M.Jarrett	FPRO	6208
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	6/14/03	21:31	D. Harris	8270C-SIM	5660
Acenaphthylene	ND	ug/L	0.10	1.0	6/14/03	21:31	D. Harris	8270C-SIM	5660
Anthracene	ND	ug/L	0.10	1.0	6/14/03	21:31	D. Harris	8270C-SIM	5660
Benzo(a)anthracene	ND	ug/L	0.10	1.0	6/14/03	21:31	D. Harris	8270C-SIM	5660
Benzo(a)pyrene	ND	ug/L	0.10	1.0	6/14/03	21:31	D. Harris	8270C-SIM	5660
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	21:31	D. Harris	8270C-SIM	5660
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	6/14/03	21:31	D. Harris	8270C-SIM	5660
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	21:31	D. Harris	8270C-SIM	5660
Chrysene	ND	ug/L	0.10	1.0	6/14/03	21:31	D. Harris	8270C-SIM	5660
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	6/14/03	21:31	D. Harris	8270C-SIM	5660
Fluoranthene	ND	ug/L	0.10	1.0	6/14/03	21:31	D. Harris	8270C-SIM	5660
Fluorene	ND	ug/L	0.10	1.0	6/14/03	21:31	D. Harris	8270C-SIM	5660
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	6/14/03	21:31	D. Harris	8270C-SIM	5660
2-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	21:31	D. Harris	8270C-SIM	5660
Naphthalene	0.19	ug/L	0.10	1.0	6/14/03	21:31	D. Harris	8270C-SIM	5660
Phenanthrene	ND	ug/L	0.10	1.0	6/14/03	21:31	D. Harris	8270C-SIM	5660
Pyrene	ND	ug/L	0.10	1.0	6/14/03	21:31	D. Harris	8270C-SIM	5660
1-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	21:31	D. Harris	8270C-SIM	5660
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/L	0.100	1.0	6/ 7/03	3:35	S. Duncan	300	2006
Nitrite-N as N	ND	mg/L	0.10	1.0	6/ 7/03	3:35	S. Duncan	300	2006
Ortho Phosphate as P	ND	mg/L	0.100	1.0	6/ 6/03	15:26	T. Beverly	365.2	1991

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	990. ml	1.0 ml	6/10/03		M. Ricke	3510C
Fla Pro	980. ml	1.0 ml	6/10/03		M. Ricke	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	82.	82. - 142.
TPH Surr, C-35	58.	55. - 118.
BTEX/GRO Surr., a,a,a-TFT	104.	69. - 129.
BNA Surr-Nitrobenzene-d5	89.	34. - 107.
BNA Surr-2-Fluorobiphenyl	84.	40. - 96.
BNA Surr-Terphenyl-d14	96.	26. - 106.

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

End of Sample Report.

ANALYTICAL REPORT

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

Lab Number: 03-A87581
Sample ID: CEF-46-2S
Sample Type: Water
Site ID:

Date Collected: 6/ 5/03
Time Collected: 16:20
Date Received: 6/ 6/03
Time Received: 8:10

Project: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Sampler: KAREN BAER/DANIEL ROMERO

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	6/10/03	2:06	F.Gundi	8021B	5277
Ethylbenzene	ND	ug/L	1.0	1.0	6/10/03	2:06	F.Gundi	8021B	5277
Toluene	ND	ug/L	1.0	1.0	6/10/03	2:06	F.Gundi	8021B	5277
Xylenes (Total)	ND	ug/L	1.0	1.0	6/10/03	2:06	F.Gundi	8021B	5277
Methyl-t-butylether	54.5	ug/L	1.0	1.0	6/10/03	2:06	F.Gundi	8021B	5277
TRPH	339.	ug/L	100.	1.0	6/13/03	14:51	M.Jarrett	FPRO	6208
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	6/14/03	22:05	D. Harris	8270C-SIM	5660
Acenaphthylene	ND	ug/L	0.10	1.0	6/14/03	22:05	D. Harris	8270C-SIM	5660
Anthracene	ND	ug/L	0.10	1.0	6/14/03	22:05	D. Harris	8270C-SIM	5660
Benzo(a)anthracene	ND	ug/L	0.10	1.0	6/14/03	22:05	D. Harris	8270C-SIM	5660
Benzo(a)pyrene	ND	ug/L	0.10	1.0	6/14/03	22:05	D. Harris	8270C-SIM	5660
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	22:05	D. Harris	8270C-SIM	5660
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	6/14/03	22:05	D. Harris	8270C-SIM	5660
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	22:05	D. Harris	8270C-SIM	5660
Chrysene	ND	ug/L	0.10	1.0	6/14/03	22:05	D. Harris	8270C-SIM	5660
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	6/14/03	22:05	D. Harris	8270C-SIM	5660
Fluoranthene	ND	ug/L	0.10	1.0	6/14/03	22:05	D. Harris	8270C-SIM	5660
Fluorene	ND	ug/L	0.10	1.0	6/14/03	22:05	D. Harris	8270C-SIM	5660
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	6/14/03	22:05	D. Harris	8270C-SIM	5660
2-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	22:05	D. Harris	8270C-SIM	5660
Naphthalene	ND	ug/L	0.10	1.0	6/14/03	22:05	D. Harris	8270C-SIM	5660
Phenanthrene	ND	ug/L	0.10	1.0	6/14/03	22:05	D. Harris	8270C-SIM	5660
Pyrene	ND	ug/L	0.10	1.0	6/14/03	22:05	D. Harris	8270C-SIM	5660
1-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	22:05	D. Harris	8270C-SIM	5660
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/L	0.100	1.0	6/ 7/03	3:35	S. Duncan	300	2006
Nitrite-N as N	ND	mg/L	0.10	1.0	6/ 7/03	3:35	S. Duncan	300	2006
Ortho Phosphate as P	ND	mg/L	0.100	1.0	6/ 6/03	15:26	T. Beverly	365.2	1991

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	980. ml	1.0 ml	6/10/03		M. Ricke	3510C
Fla Pro	960. ml	1.0 ml	6/10/03		M. Ricke	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	92.	82. - 142.
TPH Surr, C-35	76.	55. - 118.
BTEX/GRO Surr., a,a,a-TFT	103.	69. - 129.
BNA Surr-Nitrobenzene-d5	101.	34. - 107.
BNA Surr-2-Fluorobiphenyl	76.	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.
FL Pro liter pH 3.

End of Sample Report.

ANALYTICAL REPORT

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

Lab Number: 03-A87582
Sample ID: CEF-46-26I
Sample Type: Water
Site ID:

Date Collected: 6/ 5/03
Time Collected: 17:27
Date Received: 6/ 6/03
Time Received: 8:10

Project: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Sampler: KAREN BAER/DANIEL ROMERO

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	845.	ug/L	10.0	10.0	6/10/03	2:36	F.Gundi	8021B	5277
Ethylbenzene	30.0	ug/L	10.0	10.0	6/10/03	2:36	F.Gundi	8021B	5277
Toluene	ND	ug/L	10.0	10.0	6/10/03	2:36	F.Gundi	8021B	5277
Xylenes (Total)	314.	ug/L	10.0	10.0	6/10/03	2:36	F.Gundi	8021B	5277
Methyl-t-butylether	21.0	ug/L	10.0	10.0	6/10/03	2:36	F.Gundi	8021B	5277
TRPH	598.	ug/L	200.	1.0	6/16/03	20:14	L. Watson	FPRO	8339
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	6/14/03	22:40	D. Harris	8270C-SIM	5660
Acenaphthylene	ND	ug/L	0.10	1.0	6/14/03	22:40	D. Harris	8270C-SIM	5660
Anthracene	ND	ug/L	0.10	1.0	6/14/03	22:40	D. Harris	8270C-SIM	5660
Benzo(a)anthracene	ND	ug/L	0.10	1.0	6/14/03	22:40	D. Harris	8270C-SIM	5660
Benzo(a)pyrene	ND	ug/L	0.10	1.0	6/14/03	22:40	D. Harris	8270C-SIM	5660
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	22:40	D. Harris	8270C-SIM	5660
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	6/14/03	22:40	D. Harris	8270C-SIM	5660
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	6/14/03	22:40	D. Harris	8270C-SIM	5660
Chrysene	ND	ug/L	0.10	1.0	6/14/03	22:40	D. Harris	8270C-SIM	5660
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	6/14/03	22:40	D. Harris	8270C-SIM	5660
Fluoranthene	ND	ug/L	0.10	1.0	6/14/03	22:40	D. Harris	8270C-SIM	5660
Fluorene	ND	ug/L	0.10	1.0	6/14/03	22:40	D. Harris	8270C-SIM	5660
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	6/14/03	22:40	D. Harris	8270C-SIM	5660
2-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	22:40	D. Harris	8270C-SIM	5660
Naphthalene	ND	ug/L	0.10	1.0	6/14/03	22:40	D. Harris	8270C-SIM	5660
Phenanthrene	ND	ug/L	0.10	1.0	6/14/03	22:40	D. Harris	8270C-SIM	5660
Pyrene	ND	ug/L	0.10	1.0	6/14/03	22:40	D. Harris	8270C-SIM	5660
1-Methylnaphthalene	ND	ug/L	0.10	1.0	6/14/03	22:40	D. Harris	8270C-SIM	5660
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/L	0.100	1.0	6/ 7/03	3:35	S. Duncan	300	2006
Nitrite-N as N	ND	mg/L	0.10	1.0	6/ 7/03	3:35	S. Duncan	300	2006
Ortho Phosphate as P	ND	mg/L	0.100	1.0	6/ 6/03	15:26	T. Beverly	365.2	1991

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	1000 ml	1.0 ml	6/10/03		M. Ricke	3510C
Fla Pro	1000 ml	2.0 ml	6/12/03		M. Cauthen	FDEP

Surrogate	% Recovery	Target Range
TPH Surr., O-Terphenyl	141.	82. - 142.
TPH Surr, C-35	106.	55. - 118.
BTEX/GRO Surr., a,a,a-TFT	84.	69. - 129.
BNA Surr-Nitrobenzene-d5	24. #	34. - 107.
BNA Surr-2-Fluorobiphenyl	81.	40. - 96.
BNA Surr-Terphenyl-d14	94.	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.
BNA surrogate Nitrobenzene-d5 outside QC limits. Insufficient holding time remaining for re-extraction.

End of Sample Report.

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: KAREN BAER/DANIEL ROMERO

Lab Number: 03-A87583
Sample ID: Trip Blank
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 6/ 6/03
Time Received: 8:10

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	6/10/03	3:06	F.Gundi	8021B	5277
Ethylbenzene	ND	ug/L	1.0	1.0	6/10/03	3:06	F.Gundi	8021B	5277
Toluene	ND	ug/L	1.0	1.0	6/10/03	3:06	F.Gundi	8021B	5277
Xylenes (Total)	ND	ug/L	1.0	1.0	6/10/03	3:06	F.Gundi	8021B	5277
Methyl-t-butylether	ND	ug/L	1.0	1.0	6/10/03	3:06	F.Gundi	8021B	5277

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.

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 1
Laboratory Receipt Date: 6/ 6/03

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								
TRPH	mg/l	< 0.100	0.315	0.430	73	44. - 101.	6208	BLANK
TRPH	mg/l	< 0.100	0.463	0.430	108#	44. - 101.	8339	BLANK
EXTRACTABLE PARAMETERS								
Acenaphthene	mg/l	< 0.00010	0.00077	0.00100	77	28 - 106	5660	Blank
Pyrene	mg/l	< 0.00010	0.00086	0.00100	86	35 - 118	5660	Blank
BNA Surr-Nitrobenzene-d5	% Rec				78	40 - 127	5660	
BNA Surr-2-Fluorobiphenyl	% Rec				74	42 - 113	5660	
BNA Surr-Terphenyl-d14	% Rec				86	41 - 129	5660	
MISC PARAMETERS								
Nitrate-N as N	mg/l	< 0.100	10.3	9.00	114	80 - 120	2005	03-A86864
Nitrate-N as N	mg/l	< 0.100	2.95	3.00	98	80 - 120	2006	03-A87579
Nitrite-N as N	mg/l	< 0.30	7.95	9.00	88	80 - 120	2005	03-A86864
Nitrite-N as N	mg/l	< 0.10	2.94	3.00	98	80 - 120	2006	03-A87579
Ortho Phosphate as P	mg/l	< 0.100	0.949	1.00	95	80 - 120	1991	03-A87582

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
Benzene	mg/l	0.0547	0.0569	3.94	23.	2341
Toluene	mg/l	0.0529	0.0561	5.87	24.	2341
Ethylbenzene	mg/l	0.0495	0.0538	8.33	24.	2341
Xylenes (Total)	mg/l	0.0981	0.106	7.74	25.	2341
Methyl-t-butylether	mg/l	0.0611	0.0619	1.30	24.	2341
TRPH	mg/l	0.315	0.310	1.60	41.	6208
TRPH	mg/l	0.463	0.608	27.08	41.	8339
BTEX/GRO Surr., a,a,a-TFT	% Recovery		98.			2341
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00077	0.00078	1.29	33.	5660
Pyrene	mg/l	0.00086	0.00089	3.43	32.	5660
BNA Surr-Nitrobenzene-d5	% Rec		80.			5660
BNA Surr-2-Fluorobiphenyl	% Rec		77.			5660
BNA Surr-Terphenyl-d14	% Rec		94.			5660
Nitrate-N as N	mg/l	10.3	9.60	7.04	20	2005
Nitrate-N as N	mg/l	2.95	2.95	0.00	20	2006
Nitrite-N as N	mg/l	7.95	9.54	18.18	20	2005
Nitrite-N as N	mg/l	2.94	2.94	0.00	20	2006
Ortho Phosphate as P	mg/l	0.949	0.938	1.17	20	1991

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Benzene	mg/l	0.100	0.0961	96	74 - 120	2341
Benzene	mg/l	0.100	0.0971	97	74 - 120	5277
Toluene	mg/l	0.100	0.0964	96	73 - 118	2341
Toluene	mg/l	0.100	0.0981	98	73 - 118	5277
Ethylbenzene	mg/l	0.100	0.0937	94	72 - 118	2341
Ethylbenzene	mg/l	0.100	0.0961	96	72 - 118	5277
Xylenes (Total)	mg/l	0.200	0.187	94	72 - 116	2341
Xylenes (Total)	mg/l	0.200	0.192	96	72 - 116	5277
Methyl-t-butylether	mg/l	0.100	0.0938	94	64 - 124	2341
Methyl-t-butylether	mg/l	0.100	0.0933	93	64 - 124	5277
Methyl-t-butylether	mg/l	0.100	0.0993	99	64 - 124	5279
TRPH	mg/l	0.430	0.311	72	55 - 118	6208
TRPH	mg/l	0.430	0.528	123 #	55 - 118	8339

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 2
Laboratory Receipt Date: 6/ 6/03

BTEX/GRO Surr., a,a,a-TFT	% Recovery			95	69 - 129	2341
BTEX/GRO Surr., a,a,a-TFT	% Recovery			95	69 - 129	5277
BTEX/GRO Surr., a,a,a-TFT	% Recovery			96	69 - 129	5279
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00100	0.00077	77	28 - 106	5660
Acenaphthylene	mg/l	0.00100	0.00082	82	26 - 106	5660
Anthracene	mg/l	0.00100	0.00083	83	30 - 116	5660
Benzo(a)anthracene	mg/l	0.00100	0.00097	97	38 - 128	5660
Benzo(a)pyrene	mg/l	0.00100	0.00077	77	34 - 117	5660
Benzo(b)fluoranthene	mg/l	0.00100	0.00091	91	37 - 132	5660
Benzo(g,h,i)perylene	mg/l	0.00100	0.00080	80	28 - 122	5660
Benzo(k)fluoranthene	mg/l	0.00100	0.00093	93	35 - 128	5660
Chrysene	mg/l	0.00100	0.00089	89	42 - 126	5660
Dibenz(a,h)anthracene	mg/l	0.00100	0.00071	71	35 - 124	5660
Fluoranthene	mg/l	0.00100	0.00108	108	35 - 125	5660
Fluorene	mg/l	0.00100	0.00081	81	30 - 112	5660
Indeno(1,2,3-cd)pyrene	mg/l	0.00100	0.00075	75	34 - 121	5660
2-Methylnaphthalene	mg/l	0.00100	0.00073	73	31 - 108	5660
Naphthalene	mg/l	0.00100	0.00077	77	9 - 120	5660
Phenanthrene	mg/l	0.00100	0.00090	90	34 - 116	5660
Pyrene	mg/l	0.00100	0.00133	133 #	35 - 118	5660
1-Methylnaphthalene	mg/l	0.00100	0.00075	75	31 - 112	5660
BNA Surr-Nitrobenzene-d5	% Rec			89	40 - 127	5660
BNA Surr-2-Fluorobiphenyl	% Rec			79	42 - 113	5660
BNA Surr-Terphenyl-d14	% Rec			98	41 - 129	5660
MISC PARAMETERS						
Nitrate-N as N	mg/l	3.00	2.94	98	90 - 110	2005
Nitrate-N as N	mg/l	3.00	2.95	98	90 - 110	2006
Nitrite-N as N	mg/l	3.00	2.94	98	90 - 110	2005
Nitrite-N as N	mg/l	3.00	2.95	98	90 - 110	2006
Ortho Phosphate as P	mg/l	1.00	1.00	100	90 - 110	1991

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.	2005	03-A87578
Nitrate-N as N	mg/l	< 0.100	< 0.100	N/A	15.	2006	03-A87582
Nitrite-N as N	mg/l	< 0.10	< 0.10	N/A	15.	2005	03-A87578
Nitrite-N as N	mg/l	< 0.10	< 0.10	N/A	15.	2006	03-A87582

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
Benzene	< 0.00060	mg/l	2341	6/ 8/03	5:32
Benzene	< 0.00060	mg/l	5277	6/ 9/03	19:03
Toluene	< 0.0006	mg/l	2341	6/ 8/03	5:32
Toluene	< 0.0006	mg/l	5277	6/ 9/03	19:03
Ethylbenzene	< 0.0006	mg/l	2341	6/ 8/03	5:32
Ethylbenzene	< 0.0006	mg/l	5277	6/ 9/03	19:03
Xylenes (Total)	< 0.0010	mg/l	2341	6/ 8/03	5:32
Xylenes (Total)	< 0.0010	mg/l	5277	6/ 9/03	19:03
Methyl-t-butylether	< 0.0006	mg/l	2341	6/ 8/03	5:32
Methyl-t-butylether	< 0.0006	mg/l	5277	6/ 9/03	19:03
Methyl-t-butylether	< 0.0006	mg/l	5279	6/10/03	21:15
TRPH	< 0.100	mg/l	6208	6/13/03	4:27
TRPH	< 0.100	mg/l	8339	6/16/03	18:14
TPH Surr., O-Terphenyl	118.	% Recovery	6208	6/13/03	4:27
TPH Surr., O-Terphenyl	134.	% Recovery	8339	6/16/03	18:14
TPH Surr, C-35	77.	% Recovery	6208	6/13/03	4:27
TPH Surr, C-35	103.	% Recovery	8339	6/16/03	18:14
BTEX/GRO Surr., a,a,a-TFT	102.	% Recovery	2341	6/ 8/03	5:32
BTEX/GRO Surr., a,a,a-TFT	103.	% Recovery	5277	6/ 9/03	19:03
BTEX/GRO Surr., a,a,a-TFT	101.	% Recovery	5279	6/10/03	21:15
EXTRACTABLE PARAMETERS					
Acenaphthene	< 0.00010	mg/l	5660	6/14/03	9:25
Acenaphthylene	< 0.00010	mg/l	5660	6/14/03	9:25
Anthracene	< 0.00010	mg/l	5660	6/14/03	9:25
Benzo(a)anthracene	< 0.00010	mg/l	5660	6/14/03	9:25
Benzo(a)pyrene	< 0.00010	mg/l	5660	6/14/03	9:25
Benzo(b)fluoranthene	< 0.00010	mg/l	5660	6/14/03	9:25

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 04-41001/3
Project Name: CECIL FIELD BUILDING 46
Page: 3
Laboratory Receipt Date: 6/ 6/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Benzo(g,h,i)perylene	< 0.00010	mg/l	5660	6/14/03	9:25
Benzo(k)fluoranthene	< 0.00010	mg/l	5660	6/14/03	9:25
Chrysene	< 0.00010	mg/l	5660	6/14/03	9:25
Dibenz(a,h)anthracene	< 0.00010	mg/l	5660	6/14/03	9:25
Fluoranthene	< 0.00010	mg/l	5660	6/14/03	9:25
Fluorene	< 0.00010	mg/l	5660	6/14/03	9:25
Indeno(1,2,3-cd)pyrene	< 0.00010	mg/l	5660	6/14/03	9:25
2-Methylnaphthalene	< 0.00010	mg/l	5660	6/14/03	9:25
Naphthalene	< 0.00010	mg/l	5660	6/14/03	9:25
Phenanthrene	< 0.00010	mg/l	5660	6/14/03	9:25
Pyrene	< 0.00010	mg/l	5660	6/14/03	9:25
1-Methylnaphthalene	< 0.00010	mg/l	5660	6/14/03	9:25
BNA Surr-Nitrobenzene-d5	92.	% Rec	5660	6/14/03	9:25
BNA Surr-2-Fluorobiphenyl	87.	% Rec	5660	6/14/03	9:25
BNA Surr-Terphenyl-d14	106.	% Rec	5660	6/14/03	9:25
MISC PARAMETERS					
Nitrate-N as N	< 0.100	mg/l	2005	6/ 6/03	21:53
Nitrate-N as N	< 0.100	mg/l	2006	6/ 7/03	3:35
Nitrite-N as N	< 0.10	mg/l	2005	6/ 6/03	21:53
Nitrite-N as N	< 0.10	mg/l	2006	6/ 7/03	3:35
Ortho Phosphate as P	< 0.100	mg/l	1991	6/ 6/03	15:26

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 334661

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: 334661.

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-46-24D	03-A87576	6/ 5/03
CEF-46-5I	03-A87577	6/ 5/03
CEF-46-21I	03-A87578	6/ 5/03
CEF-46-12I	03-A87579	6/ 5/03
CEF-46-13I	03-A87580	6/ 5/03
CEF-46-2S	03-A87581	6/ 5/03
CEF-46-26I	03-A87582	6/ 5/03
Trip Blank	03-A87583	

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

Report Approved By: _____ Report Date: 6/17/03

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

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

ANALYTICAL REPORT

TERRAINE, INC. 9463	Lab Number: 03-A87583
JIM YOUNG	Sample ID: Trip Blank
2622 N.W. 97TH	Sample Type: Water
MIAMI, FL 33172	Site ID:
	Date Collected:
Project: 04-41001/3	Time Collected:
Project Name: CECIL FIELD BUILDING 46	Date Received: 6/ 6/03
Sampler: KAREN BAER/DANIEL ROMERO	Time Received: 8:10

APPENDIX C

2nd Quarter 2003 Groundwater Sampling Logs

GROUNDWATER SAMPLING LOG

TERRAINE, inc.
ENVIRONMENTAL SERVICES

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-46-12I:6/5/03		
Notes: Used the oyster for ph.		

Well Information

Well ID: **CEF-46-12I**	Sampling Date: **6/5/2003**	
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): 3.30	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 25.00
pH Meter:	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 14:10	Purge End: 14:31	Total Volume Purged (gal): 0.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Color	Odor
14:12	3.40	0.50	0.00	4.73	26.58	165.0	4.08	116.0	227.00	dark orange	none
14:14	3.35	0.75	0.00	3.18	26.61	166.0	4.11	123.0	195.00		
14:16	3.32	1.00	0.00	2.75	26.57	169.0	4.06	123.0	212.00		
14:18	3.35	1.25	0.00	2.35	26.56	164.0	4.07	125.0	159.00		
14:21	3.42	1.50	0.00	2.02	26.47	158.0	4.10	129.0	132.00		
14:24	3.40	2.00	0.25	1.90	26.42	155.0	4.19	128.0	109.00		
14:26	3.40	2.50	0.25	1.78	26.34	154.0	4.22	122.0	83.40		
14:29	3.40	3.00	0.25	1.73	26.35	156.0	4.22	122.0	68.10		
14:31	3.40	3.50	0.00	1.66	26.33	155.0	4.22	118.0	73.00		

Sampling Data

Sample Information

Sample Date:	6/5/2003
Sample Start Time:	14:31
Sample End Time:	14:45
Field Filtered:	☐
Duplicate:	☐

Final Purge Readings

DO (mg/L):	1.65
Temp (*C):	26.33
SEC (uS/cm):	155.00
pH:	4.22
ORP (mV):	117.00
Turb (NTU):	0.00

Field Test Kit Readings (mg/L)

DO:	0.00	Sulfate:	0.00
CO2:	168.00	Sulfide:	0.00
Alkalinity:	0.00		
Ferrous Iron:	1.00		
H2S:	0.00		
Manganese:	0.00		

Lab Analyses/Methods:

Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE, inc.
ENVIRONMENTAL SERVICES

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-46-13I:6/5/03		
Notes: Used oyster ph meter		

Well Information

Well ID: **CEF-46-13I**	Sampling Date: **6/5/2003**	
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): 3.50	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 35.00
pH Meter:	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 14:55	Purge End: 15:12	Total Volume Purged (gal): 0.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Color	Odor
15:02	3.80	1.00	0.00	0.04	26.67	127.0	4.03	31.0	12.80	clear	slight HC
15:06	3.85	1.50	0.00	1.41	26.66	129.0	4.04	14.0	5.61		
15:08	3.85	2.00	0.00	0.80	26.55	225.0	3.80	9.0	3.89		
15:10	3.85	2.50	0.00	0.29	26.49	517.0	3.73	5.0	2.91		
15:11	3.85	3.00	0.00	0.00	26.45	621.0	3.72	3.0	1.77		
15:12	3.85	3.50	0.50	0.00	26.44	624.0	3.71	2.0	1.74		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	6/5/2003	DO (mg/L):	0.00	DO:	0.00	Sulfate:	0.00
Sample Start Time:	15:12	Temp (*C):	26.44	CO2:	0.00	Sulfide:	0.00
Sample End Time:	15:30	SEC (uS/cm):	643.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	3.71	Ferrous Iron:	3.60		
Duplicate:	☐	ORP (mV):	1.00	H2S:	5.00		
		Turb (NTU):	0.00	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE, inc.
ENVIRONMENTAL SERVICES

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2:	Weather: Heavy rain
Sampling ID: 04-41001/3:CEF-46-14D:6/4/03		
Notes:		

Well Information

Well ID: **CEF-46-14D**	Sampling Date: **6/4/2003**	
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): 6.15	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 73.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 11:44	Purge End: 12:00	Total Volume Purged (gal): 0.00	

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
11:44	7.60	0.50	0.00	2.17	26.11	108.0	5.51	-21.0	5.77	clear	sulfuric
11:48	7.40	1.00	0.00	0.93	26.19	108.0	5.83	-35.0	4.53		
11:51	8.40	1.50	0.00	0.48	26.25	108.0	5.90	-39.0	3.69		
11:54	7.80	2.00	0.16	0.33	26.23	107.0	5.86	-38.0	4.08		
11:57	7.90	2.50	0.25	0.21	26.20	106.0	5.86	-41.0	2.78		
12:00	8.00	3.00	0.00	0.19	26.16	106.0	5.68	-39.0	2.71		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	6/4/2003	DO (mg/L):	0.17	DO:	0.00	Sulfate:	0.00
Sample Start Time:	12:00	Temp (*C):	26.14	CO2:	186.00	Sulfide:	0.00
Sample End Time:	12:10	SEC (uS/cm):	106.00	Alkalinity:	20.00		
Field Filtered:	☐	pH:	5.77	Ferrous Iron:	2.30		
Duplicate:	☐	ORP (mV):	-39.00	H2S:	2.00		
		Turb (NTU):	0.00	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE, inc.
ENVIRONMENTAL SERVICES

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-46-15I:6/4/03		
Notes:		

Well Information

Well ID: **CEF-46-15I**	Sampling Date: **6/4/2003**	
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): 4.63	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	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: 08:27	Purge End: 08:45	Total Volume Purged (gal): 0.00	

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
08:27	5.20	0.50	0.00	4.53	22.80	171.0	1.87	163.0	214.00	orange	none
08:29	5.20	1.00	0.00	3.02	22.82	172.0	2.51	145.0	183.00		
08:31	5.20	1.50	0.00	2.06	22.83	173.0	2.83	125.0	135.00		
08:34	8.20	2.00	0.00	1.55	22.85	173.0	3.02	114.0	73.40		
08:36	8.20	2.50	0.00	1.19	22.86	173.0	3.05	107.0	34.50		
08:38	5.20	3.00	0.50	1.11	22.87	173.0	3.06	104.0	23.60		
08:40	5.20	3.50	0.00	0.98	22.87	173.0	3.04	101.0	18.00		
08:43	5.30	4.00	0.00	0.81	22.88	172.0	2.95	98.0	11.90		
08:45	5.30	4.50	0.00	0.75	22.85	171.0	2.12	95.0	11.90		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	6/4/2003	DO (mg/L):	0.59	DO:	0.00	Sulfate:	0.00
Sample Start Time:	08:45	Temp (*C):	22.89	CO2:	368.00	Sulfide:	0.00
Sample End Time:	09:01	SEC (uS/cm):	172.00	Alkalinity:	10.00		
Field Filtered:	☐	pH:	1.76	Ferrous Iron:	3.30		
Duplicate:	☐	ORP (mV):	92.00	H2S:	0.00		
		Turb (NTU):	0.00	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE, inc.
ENVIRONMENTAL SERVICES

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-46-1S:6/5/03		
Notes: Used oyster meter to measure ph.		

Well Information

Well ID: **CEF-46-1S**	Sampling Date: **6/5/2003**	
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): 3.75	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 8.50
pH Meter:	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 15:50	Purge End: 16:18	Total Volume Purged (gal): 0.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Color	Odor
15:58	3.60	0.50	0.00	3.13	24.98	1,810.0	6.28	-39.0	37.80	yellow-brown	strong HC
16:00	3.52	1.00	0.00	1.87	24.80	1,810.0	6.35	-42.0	22.90		
16:02	3.40	1.50	0.00	1.34	24.68	1,810.0	6.38	-42.0	16.90		
16:06	3.10	2.00	0.00	0.37	24.91	1,810.0	6.41	-44.0	7.20		
16:09	3.15	2.50	0.00	0.00	24.78	1,820.0	6.42	-43.0	8.37		
16:10	3.28	3.00	0.50	0.00	24.61	1,860.0	6.43	-41.0	15.70		
16:13	3.05	3.50	0.25	0.00	24.66	1,860.0	6.44	-41.0	18.10		
16:18	3.46	4.00	0.10	0.00	24.66	1,860.0	6.44	-40.0	11.70		

Sampling Data

Sample Information

Sample Date:	6/5/2003
Sample Start Time:	16:18
Sample End Time:	16:25
Field Filtered:	☐
Duplicate:	☐

Final Purge Readings

DO (mg/L):	0.00
Temp (*C):	24.66
SEC (uS/cm):	1,860.00
pH:	6.44
ORP (mV):	-40.00
Turb (NTU):	0.00

Field Test Kit Readings (mg/L)

DO:	0.00	Sulfate:	0.00
CO2:	228.00	Sulfide:	0.00
Alkalinity:	195.00		
Ferrous Iron:	2.20		
H2S:	0.30		
Manganese:	0.00		

Lab Analyses/Methods:

Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE, inc.
ENVIRONMENTAL SERVICES

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-46-1S:6/9/03		
Notes:		

Well Information

Well ID: **CEF-46-1S**	Sampling Date: **6/9/2003**	
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): 0.00	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 11.60
pH Meter:	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 17:00	Purge End: 17:21	Total Volume Purged (gal): 0.00	

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
17:03	4.80	0.50	0.00	1.48	25.60	1,510.0	6.80	88.0	43.40	black	strong HC
17:06	5.00	1.00	0.00	0.67	25.52	1,530.0	6.59	44.0	30.00		
17:09	5.10	1.50	0.00	0.00	25.50	1,580.0	6.52	-162.0	24.40		
17:14	5.20	2.00	0.00	0.00	25.40	1,660.0	6.44	-214.0	19.40		
17:17	5.14	2.50	0.25	0.00	25.37	1,660.0	6.44	-221.0	16.90		
17:21	5.30	3.00	0.12	0.00	25.26	1,700.0	6.40	-235.0	14.30		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	6/9/2003	DO (mg/L):	0.00	DO:	0.00	Sulfate:	0.00
Sample Start Time:	17:21	Temp (*C):	25.28	CO2:	0.00	Sulfide:	0.00
Sample End Time:	17:30	SEC (uS/cm):	1,730.00	Alkalinity:	140.00		
Field Filtered:	☐	pH:	6.39	Ferrous Iron:	3.20		
Duplicate:	☐	ORP (mV):	-238.00	H2S:	5.00		
		Turb (NTU):	0.00	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE, inc.
ENVIRONMENTAL SERVICES

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-46-21I:6/5/03		
Notes: Changed ph meter to 'the oyster'		

Well Information

Well ID: **CEF-46-21I**	Sampling Date: **6/5/2003**	
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): 4.18	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 25.00
pH Meter:	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 12:35	Purge End: 13:04	Total Volume Purged (gal): 0.00	

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
12:40	4.32	0.50	0.00	2.03	24.40	2,770.0	3.26	308.0	24.80	orange	none
12:43	4.42	1.00	0.00	0.73	24.32	2,880.0	3.25	276.0	5.68		
12:46	4.60	1.50	0.00	0.13	24.22	328.0	3.23	298.0	2.75		
12:48	4.40	2.00	0.25	0.00	24.26	442.0	3.21	256.0	1.28		
12:51	4.35	2.50	0.25	0.00	24.24	516.0	3.20	207.0	2.78		
12:54	4.21	3.00	0.16	0.00	24.55	572.0	3.19	204.0	2.78		
12:59	4.46	3.50	0.12	0.00	24.31	608.0	3.17	253.0	2.67		
13:02	4.30	4.00	0.16	0.00	24.34	712.0	3.16	197.0	1.10		
13:04	4.80	4.50	0.25	0.00	24.19	739.0	3.13	267.0	1.65		

Sampling Data

Sample Information

Sample Date:	6/5/2003
Sample Start Time:	13:04
Sample End Time:	13:15
Field Filtered:	☐
Duplicate:	☐

Final Purge Readings

DO (mg/L):	0.00
Temp (*C):	24.22
SEC (uS/cm):	798.00
pH:	3.12
ORP (mV):	251.00
Turb (NTU):	0.00

Field Test Kit Readings (mg/L)

DO:	0.00	Sulfate:	0.00
CO2:	0.00	Sulfide:	0.00
Alkalinity:	0.00		
Ferrous Iron:	3.90		
H2S:	0.70		
Manganese:	0.00		

Lab Analyses/Methods:

Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE, inc.
ENVIRONMENTAL SERVICES

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:6/5/03		
Notes:		

Well Information

Well ID: **CEF-46-24D**	Sampling Date: **6/5/2003**	
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): 6.40	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: 08:35	Purge End: 09:00	Total Volume Purged (gal): 0.00	

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
08:40	6.70	0.50	0.00	2.47	27.19	3,300.0	4.06	299.0	16.50	orange	none
08:43	6.70	1.00	0.00	1.12	27.47	3,340.0	0.00	321.0	7.50		
08:46	6.60	1.50	0.00	0.61	27.18	3,370.0	1.14	314.0	4.87		
08:50	6.70	2.00	0.16	0.43	27.27	3.2	1.02	309.0	4.56		
08:53	6.65	2.50	0.16	0.37	27.29	3,260.0	0.72	293.0	5.63		
08:56	6.80	3.00	0.16	0.33	27.35	3,200.0	0.67	289.0	3.75		
08:59	7.00	3.50	0.25	0.36	28.57	3,140.0	0.75	229.0	1.16		
09:00	6.81	4.00	0.50	0.36	28.46	3,140.0	0.49	280.0	3.07		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	6/5/2003	DO (mg/L):	0.36	DO:	0.00	Sulfate:	0.00
Sample Start Time:	09:00	Temp (*C):	28.22	CO2:	0.00	Sulfide:	0.00
Sample End Time:	09:10	SEC (uS/cm):	3,160.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	0.36	Ferrous Iron:	5.90		
Duplicate:	☐	ORP (mV):	250.00	H2S:	0.00		
		Turb (NTU):	0.00	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE, inc.
ENVIRONMENTAL SERVICES

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-46-25I:6/4/03		
Notes:		

Well Information

Well ID: **CEF-46-25I**	Sampling Date: **6/4/2003**	
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): 0.00	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	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: 14:55	Purge End: 15:18	Total Volume Purged (gal): 0.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Color	Odor
15:01	4.10	0.50	0.00	1.59	25.71	1.4	6.39	-65.0	15.60	clear	sulfuric
15:03	4.10	1.00	0.00	0.78	25.75	1.4	6.55	-67.0	14.30		
15:05	4.04	1.50	0.00	0.30	25.80	1,520.0	6.45	-69.0	10.60		
15:09	4.00	2.00	0.00	0.10	25.86	1,520.0	6.17	-75.0	6.43		
15:16	4.05	2.50	0.08	0.00	25.89	1,530.0	5.94	-81.0	4.44		
15:18	4.10	3.00	0.25	0.00	25.82	1,470.0	5.94	-84.0	3.72		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	6/4/2003	DO (mg/L):	0.00	DO:	0.00	Sulfate:	0.00
Sample Start Time:	15:18	Temp (*C):	25.76	CO2:	0.00	Sulfide:	0.00
Sample End Time:	15:30	SEC (uS/cm):	1,440.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	5.98	Ferrous Iron:	6.00		
Duplicate:	☐	ORP (mV):	-87.00	H2S:	5.00		
		Turb (NTU):	0.00	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE, inc.
ENVIRONMENTAL SERVICES

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-46-26I:6/5/03		
Notes: Used oyster meter for ph		

Well Information

Well ID: **CEF-46-26I**	Sampling Date: **6/5/2003**	
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): 4.30	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 42.00
pH Meter:	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 17:10	Purge End: 17:26	Total Volume Purged (gal): 0.00	

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
17:12	4.34	0.50	0.00	1.94	24.43	2,810.0	3.30	10.0	56.90	yellow-brown	strong HC
17:15	4.32	1.00	0.25	0.82	24.34	2,820.0	3.31	2.0	57.00		
17:21	4.45	1.50	0.08	0.00	24.29	2,830.0	3.32	-2.0	45.60		
17:23	4.50	2.00	0.00	0.00	24.54	2,830.0	3.32	-2.0	24.70		
17:25	4.60	3.00	0.50	0.00	24.55	2,860.0	3.31	-2.0	19.10		
17:26	4.65	4.00	0.00	0.00	24.59	2,880.0	3.31	-2.0	15.10		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	6/5/2003	DO (mg/L):	0.00	DO:	0.00	Sulfate:	0.00
Sample Start Time:	17:26	Temp (*C):	24.60	CO2:	0.00	Sulfide:	0.00
Sample End Time:	17:43	SEC (uS/cm):	2,880.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	3.31	Ferrous Iron:	9.00		
Duplicate:	☐	ORP (mV):	-2.00	H2S:	5.00		
		Turb (NTU):	0.00	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE, inc.
ENVIRONMENTAL SERVICES

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-46-5I:6/5/03		
Notes:		

Well Information

Well ID: **CEF-46-5I**	Sampling Date: **6/5/2003**	
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): 4.90	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	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: 10:25	Purge End: 11:02	Total Volume Purged (gal): 0.00	

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
10:30	6.20	0.50	0.00	5.40	26.43	4,610.0	4.60	391.0	1,000.00		
10:45	6.10	1.00	0.00	2.91	26.10	4,720.0	1.60	412.0	1,000.00		
10:48	6.50	2.00	0.00	1.31	26.44	474.0	1.90	411.0	1,000.00		
10:50	6.30	3.00	0.00	0.91	26.69	4.7	1.90	409.0	1,000.00		
10:52	6.40	4.00	0.00	0.62	26.85	478.0	2.00	408.0	1,000.00		
10:54	6.60	5.00	0.50	0.49	26.93	4.7	2.00	408.0	1,000.00		
11:02	5.00	6.00	0.14	0.28	26.88	4,830.0	2.00	408.0	1,000.00		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	6/5/2003	DO (mg/L):	0.23	DO:	0.00	Sulfate:	0.00
Sample Start Time:	11:02	Temp (*C):	26.92	CO2:	0.00	Sulfide:	0.00
Sample End Time:	11:10	SEC (uS/cm):	4,840.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	2.00	Ferrous Iron:	9.90		
Duplicate:	☐	ORP (mV):	407.00	H2S:	0.00		
		Turb (NTU):	0.00	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE, inc.
ENVIRONMENTAL SERVICES

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-46-6D:6/9/03		
Notes:		

Well Information

Well ID: **CEF-46-6D**	Sampling Date: **6/9/2003**	
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): 0.00	Well Capacity (gal): 0.00	

Purge Setup

Purge Method:	Tubing Material:		Pump Set at (ft): 0.00
pH Meter:	Cond. Meter:	DO Meter:	Turb. Meter:
Purge Start: 15:00	Purge End: 15:19	Total Volume Purged (gal): 0.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Color	Odor
15:05	9.60	0.50	0.00	1.61	27.71	9,750.0	2.62	288.0	104.00	orange	none
15:07	9.80	1.00	0.00	0.92	27.61	9,740.0	3.79	145.0	94.30		
15:08	9.90	1.50	0.00	0.69	27.60	9,750.0	3.64	107.0	82.00		
15:09	10.10	2.00	0.00	0.53	27.71	9,550.0	2.93	85.0	71.80		
15:11	10.10	2.00	0.00	0.34	27.73	9.6	2.77	319.0	67.10		
15:12	10.55	2.50	0.00	0.27	27.75	9.6	2.75	244.0	67.50		
15:14	10.60	3.00	0.00	0.19	27.93	9,740.0	2.73	333.0	75.00		
15:17	10.50	4.00	0.50	0.08	27.98	9,750.0	2.71	132.0	62.70		
15:19	10.50	5.00	0.00	0.09	28.05	9,750.0	2.69	90.0	60.60		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	6/9/2003	DO (mg/L):	0.09	DO:	0.00	Sulfate:	0.00
Sample Start Time:	15:19	Temp (*C):	27.97	CO2:	0.00	Sulfide:	0.00
Sample End Time:	15:27	SEC (uS/cm):	9,740.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	2.69	Ferrous Iron:	7.00		
Duplicate:	☐	ORP (mV):	77.00	H2S:	0.00		
		Turb (NTU):	0.00	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE, inc.
ENVIRONMENTAL SERVICES

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-46-7I:6/9/03		

Notes: Well was diffucult to purge. Do and turbidity did not become stable due to fluctuation in well and air pressure that caused water flow to be sporadic.

Well Information

Well ID: **CEF-46-7I**	Sampling Date: **6/9/2003**	
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): 3.20	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 15.00
pH Meter:	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 16:00	Purge End: 16:30	Total Volume Purged (gal): 0.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Color	Odor
16:05	0.00	0.50	0.00	1.13	25.41	196.0	3.85	216.0	83.00	orange	strong HC
16:07	6.86	1.00	0.00	1.32	25.53	193.0	3.82	238.0	71.40		
16:09	7.20	1.50	0.00	0.93	25.40	191.0	3.85	288.0	73.50		
16:11	7.00	2.00	0.00	1.27	25.49	190.0	3.84	270.0	90.60		
16:13	6.60	2.50	0.00	0.98	25.53	188.0	3.85	259.0	98.70		
16:15	7.00	3.00	0.00	0.50	25.54	188.0	3.83	259.0	106.00		
16:18	5.20	3.50	0.00	0.23	25.79	188.0	3.82	275.0	117.00		
16:21	6.20	4.00	0.00	1.18	25.58	187.0	3.82	253.0	121.00		
16:24	6.70	4.00	0.00	0.58	25.61	189.0	3.81	263.0	114.00		
16:26	7.00	4.50	0.00	1.08	25.65	189.0	3.80	257.0	107.00		
16:28	7.50	6.00	0.75	0.90	25.65	190.0	3.80	265.0	96.10		
16:30	6.70	6.50	0.00	1.50	25.76	191.0	3.80	260.0	110.00		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	6/9/2003	DO (mg/L):	1.05	DO:	0.00	Sulfate:	0.00
Sample Start Time:	16:30	Temp (*C):	26.12	CO2:	233.00	Sulfide:	0.00
Sample End Time:	16:40	SEC (uS/cm):	191.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	3.80	Ferrous Iron:	2.20		
Duplicate:	☐	ORP (mV):	278.00	H2S:	0.00		
		Turb (NTU):	0.00	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE, inc.
ENVIRONMENTAL SERVICES

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2:	Weather: Rain
Sampling ID: 04-41001/3:CEF-46-9I:6/4/03		
Notes:		

Well Information

Well ID: **CEF-46-9I**	Sampling Date: **6/4/2003**	
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): 4.10	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 42.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 13:08	Purge End: 13:25	Total Volume Purged (gal): 0.00	

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
13:10	4.20	0.50	0.00	3.72	25.71	782.0	4.47	57.0	4.66	clear	sulfuric
13:12	4.20	1.00	0.00	2.07	25.84	843.0	4.67	32.0	2.54		
13:16	4.20	1.50	0.00	1.28	25.86	974.0	4.47	10.0	2.07		
13:19	4.20	2.00	0.00	0.98	25.81	1,020.0	4.77	2.0	1.06		
13:22	4.20	2.50	0.16	0.77	25.79	1,070.0	4.70	-4.0	0.99		
13:25	4.20	3.00	0.16	0.63	25.79	1,090.0	4.71	-7.0	1.03		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	6/4/2003	DO (mg/L):	0.60	DO:	0.00	Sulfate:	0.00
Sample Start Time:	13:25	Temp (*C):	25.73	CO2:	0.00	Sulfide:	0.00
Sample End Time:	13:35	SEC (uS/cm):	1,090.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	4.75	Ferrous Iron:	6.00		
Duplicate:	☐	ORP (mV):	-8.00	H2S:	1.00		
		Turb (NTU):	0.00	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials

APPENDIX D

2nd Quarter 2003 Site Visit Reports

---

pHA-ER OPERATION and MAINTENANCE LOG
Site Name: Cecil Field Site 46 East
Personnel on Site: JH

Date: 4/16/03
Arrival Time: 10:30 AM
Departure Time: 2:20 PM

Exterior Parameters	Arrival		Departure		Comments
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			10,652.00		
Pressure Hour Meter (Hours)			16,569.00		
Air Supply					
Leg 1 (PSIG)		70	70		
Leg 2 (PSIG)		70	70		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	MT	AG	800/80	AG	
Cylinder 2 (psig, primary/secondary)	MT	AG	750/80	AG	
Cylinder 3 (psig, primary/secondary)	1200/40	AG	650/80	AG	
Cylinder 4 (psig, primary/secondary)	MT	AG	800/80	AG	
Cylinder 5 (psig, primary/secondary)					
Flow Meter (CFH)		1.5		1.5	
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.7		0.7		
Air Flow (CFM)	1		1		
Air Flow					
Inj. Well I4 (Valve % Open/CFM)	20		20		No change to air flow distribution to leg 1 .
Inj. Well I5 (Valve % Open/CFM)	100		100		
Inj. Well D9 (Valve % Open/CFM)	0		0		
Inj. Well D10 (Valve % Open/CFM)	0		0		
Inj. Well D11 (Valve % Open/CFM)	0		0		
Inj. Well I2 (Valve % Open/CFM)	0		0		
Inj. Well I3 (Valve % Open/CFM)	100		100		
Inj. Well I6 (Valve % Open/CFM)	100		100		
Inj. Well I7 (Valve % Open/CFM)	100		100		
Inj. Well I8 (Valve % Open/CFM)	0		0		
Inj. Well I1 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		No change to air flow distribution to leg 2 .
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	100		100		
Inj. Well D4 (Valve % Open/CFM)	50		50		
Inj. Well D5 (Valve % Open/CFM)	0		0		
Inj. Well D6 (Valve % Open/CFM)	40		40		
Inj. Well D7 (Valve % Open/CFM)	40		40		
Inj. Well D8 (Valve % Open/CFM)	0		0		

Maintenance Information	Maintenance Performed
Nitrous System Cylinders/Regulators	OK.
Nitrous Oxide Solenoid Valve	OK
TEP System	OK. IV 100%, OV 100%, BPV 50%
AC Gast M853 Mod 5K49ZN4223	
#1	Relief valve sheared off at threads. Did not have extractor of correct size to change.
#2	OK
#3	OK
#4	Venting observed from output piston end. Removed for repair.
Air Legs/ Solenoid Valves	OK
Ventilation Fans	OK. Roof fan OK. Verified thermostat function.
Primary Electrical System	OK
PLC-Telemetry	OK
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK

Additional Notes:

Flow continues to be directed to plume hot spot.
Will bring large extractor next O&M to remove and replace the relief valve in compressor 1.
Compressor was unwired until repaired.

Returned 4 MT nitrous cylinders to AG Jax. Picked up 5 full nitrous cylinders.

PhA-ER Monthly System O&M Progress Report
Building 46 East Unit
April 16, 2003 O&M Event

1.0 Introduction

Building 46 was the former base gas station that operated from 1946-1987. The station had a total of eight (8) UST's which were all removed in 1988. Contamination assessments conducted in 1997 and 1998 indicates an extensive vadose zone and groundwater impact from the former gas station operations. The plume extends on the east and west sides of New World (former D Avenue). Two MAGNUS (multi application gas nutrient systems) bioremediation systems were installed to treat the east and west portions of the plume. The objective is to treat the source area (former UST locations) soil and groundwater contamination to cleanup target levels and the outer plume areas to NA (natural attenuation) standards.

2.0 Description of April 16, 2003 Site Visit, Preventative and Corrective Maintenance. J. Huff

- The system was on at the main power disconnect and running upon arrival.
- Removed three empty AG nitrous oxide cylinders and replaced with three full AG cylinders. Reset the pressures and flow. Checked for leaks—none detected.
- Checked the TEP level in the cylinder the level was OK. System left at 50% bypass flow.
- Compressor #1 had a venting relief valve that was sheared off at the thread connections. Extraction was attempted with the extractors available, but they were all too small. A large extractor and new relief valve will be brought at the next O&M event. The compressor was unwired until repairs can be completed. Compressors #2 and #3 appeared to operate normally. At shut down, compressor #4 was observed to be venting from the output cowl. A decision was taken to remove the compressor for repairs, as it is suspected that the piston rings may be leaking and the pistons on the verge of failure.
- All compressor intake filters were checked.
- Compressor cowl screws were checked and tightened if necessary.
- Operation of the two active compressors was verified.
- The roof top ventilation fan was checked, and operation of the thermostat verified. Trailer interior temperatures were observed to be markedly cooler since the roof fan installation.
- Verified air flows, and all valves and directed flow remain the same. Checked for system leaks—none detected.
- Documented power and pressure hour meter readings.
- Secured system trailer.
- System left on and running.

3.0 Operation efficiencies

Maximum remedial efficiencies are presently achieved by pulsed operations to selected injection wells. Flow has been adjusted based on the most recent laboratory data to shift more air and nutrient into hot zone area and less to peripheral injection wells.

4.0 Remedial progress

Latest data continues to demonstrate a decline in BTEX concentrations in the original source area (shallow to intermediate zone). Total contaminant concentration reductions are approximately 85% overall.

4.1 Flow rate monitoring

Air flow rates to injection wells were adjusted based on the most recent laboratory data to concentrate flow to the remaining areas of contamination.

5.0 Recommendations

Re-balance system as needed as future monitoring well laboratory report results are received and analyzed. Converted to pulsing injection on a twelve hour on – twelve hour off cycle. Consider installation of shallow injection wells in the shallow zone of the original source area to accelerate reductions.

pHA-ER OPERATION and MAINTENANCE LOG

Site Name: Cecil Field Site 46 West

Personnel on Site: JH

Date: 4/16/03

Arrival Time: 11:30 AM

Departure Time: 3:15 PM

Exterior Parameters	Arrival		Departure		Comments
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			8,873.0		This meter is malfunctioning.
Pressure Hour Meter (Hours)			17,125.0		
Air Supply					
Leg 1 (PSIG)	36		36		
Leg 2 (PSIG)	35		35		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	700/70	AG	700/70	AG	AG Jax
Cylinder 2 (psig, primary/secondary)	700/70	AG	700/70	AG	AG Jax
Cylinder 3 (psig, primary/secondary)	MT	AG			Removed and returned.
Flow Meter (CFH)	0.5		0.5		
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.6		0.60		None added
Air Flow (CFM)	1		1		No Change
Air Flow					
Inj. Well I1 (Valve % Open/CFM)	0		0		No change to flow rates.
Inj. Well I2 (Valve % Open/CFM)	25		25		
Inj. Well I3 (Valve % Open/CFM)	0		0		
Inj. Well I4 (Valve % Open/CFM)	25		25		
Inj. Well I5 (Valve % Open/CFM)	25		25		
Inj. Well I6 (Valve % Open/CFM)	25		25		No change to flow rates.
Inj. Well I6 (Valve % Open/CFM)	25		25		
Inj. Well I7 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	0		0		

Maintenance Information	Maintenance Performed
Nitrous System Cylinders/Regulators	OK. No leaks.
Nitrous Oxide Solenoid Valve	OK
TEP System	OK. IV 100%, OV 100%, BPV 50%
AC Gast M853 Mod 5K49ZN4223	
#1 SN 0103706074	OK Checked inlet filters.
#2 SN 0103706070	Turned off.
#3 SN 0103706076	Turned off.
#4 SN0103706073	Turned off.
Air Legs/ Solenoid Valves	OK.
Ventilation Fan	OK.
Primary Electrical System	OK
PLC-Telemetry	OK
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK
Additional Notes:	System left to operate with 2 nitrous cylinders, since flow requirements have been reduced. Flows continue to be direacted towards maintenance of treatment area.

PhA-ER Monthly System O&M Progress Report
Building 46 West Unit
April, 2003 O&M Event

1.0 Introduction

Building 46 was the former base gas station that operated from 1946-1987. The station had a total of eight (8) UST's which were all removed in 1988. Contamination assessments conducted in 1997 and 1998 indicates an extensive vadose zone and groundwater impact from the former gas station operations. The plume extends on the east and west sides of New World (former D Avenue). Two MAGNUS (multi application gas nutrient systems) bioremediation systems were installed to treat the east and west portions of the plume. The objective is to treat the source area (former UST location) soil and groundwater contamination to cleanup target levels and the outer plume areas to NA (natural attenuation) standards.

2.0 Description of April 16, 2003, Site Visit, Preventative and Corrective Maintenance

- The system was on at main power disconnect and running upon arrival.
- One nitrous oxide cylinder was empty and removed. Two partial cylinders were left in place.. Checked for leaks—none detected.
- Checked TEP cylinder fluid level – OK, and none added.. Flow OK at 50%.
- Checked air compressor inlet air filters. Checked for leaks – none detected.
- New ventilation fan working. Verified thermostat function.
- System air flows were briefly verified, and left in current configuration to maximize flow to area of plume originally outside of treatment zone, as well as maintenance flow to original area.
- System left to continue running on compressors 1 and 2.
- Blue hose to all compressors was replaced during March O&M event, and no signs of leaks were detected.
- System was left on.

3.0 Operation efficiencies

Maximum remedial efficiencies are presently achieved by continuous operations to selected injection wells.

4.0 Remedial progress

Aggregate contaminant mass in the CF46W treatment area has been reduced by 100%. Contamination is evident in the groundwater from MW 26I, outside of the intended treatment area. The Magnus system will continue to operate and be directed to this area in an attempt to influence the microorganism population and continue contaminant degradation.

4.1 Flow rate monitoring

Air flow rates to injection wells previously were balanced to achieve maximum air flow to the deep injection wells while maintaining air flow to the intermediate wells and were left as set. Flow through TEP cylinder at 50%..

5.0 Recommendations

Re-balance system as needed as future monitoring well laboratory report results are received and analyzed.

pHA-ER OPERATION and MAINTENANCE LOG

Site Name: Cecil Field Site 46 West

Personnel on Site: CP

Date: 5/28/03

Arrival Time: 1:30 PM

Departure Time: 4:30 PM

Exterior Parameters	Arrival		Departure		Comments
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			8,873.0		This meter is malfunctioning.
Pressure Hour Meter (Hours)			18,133.0		
Air Supply					
Leg 1 (PSIG)	35		35		
Leg 2 (PSIG)	35		35		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	700/70	AG	700/70	AG	AG Jax
Cylinder 2 (psig, primary/secondary)	700/70	AG	700/70	AG	AG Jax
Cylinder 3 (psig, primary/secondary)	Missing	AG	700/70		Removed and returned.
Flow Meter (CFH)	0.5		0.5		
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.4		1.50		TEP added
Air Flow (CFM)	1		1		No Change
Air Flow					
Inj. Well I1 (Valve % Open/CFM)	0		0		No change to flow rates.
Inj. Well I2 (Valve % Open/CFM)	25		25		
Inj. Well I3 (Valve % Open/CFM)	0		0		
Inj. Well I4 (Valve % Open/CFM)	25		25		
Inj. Well I5 (Valve % Open/CFM)	25		25		
Inj. Well I6 (Valve % Open/CFM)	25		25		No change to flow rates.
Inj. Well I6 (Valve % Open/CFM)	25		25		
Inj. Well I7 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	0		0		

Maintenance Information	Maintenance Performed
Nitrous System Cylinders/Regulators	OK. No leaks.
Nitrous Oxide Solenoid Valve	OK
TEP System	OK. IV 100%, OV 100%, DPV 50%
AC Gast M853 Mod 5K49ZN4223	
#1 SN 0103706074	OK Checked inlet filters.
#2 SN 0103706070	OK Checked inlet filters.
#3 SN 0103706076	Turned off.
#4 SN0103706073	Turned off.
Air Legs/ Solenoid Valves	OK
Ventilation Fan	OK.
Primary Electrical System	OK
PLC-Telemetry	OK
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK
Additional Notes:	System left to operate with 3 nitrous cylinders, since flow requirements have been reduced. Flows continue to be directed towards maintenance of treatment area.

PhA-ER Monthly System O&M Progress Report
Building 46 West Unit
May 28, 2003 O&M Event

1.0 Introduction

Building 46 was the former base gas station that operated from 1946-1987. The station had a total of eight (8) UST's which were all removed in 1988. Contamination assessments conducted in 1997 and 1998 indicates an extensive vadose zone and groundwater impact from the former gas station operations. The plume extends on the east and west sides of New World (former D Avenue). Two MAGNUS (multi application gas nutrient systems) bioremediation systems were installed to treat the east and west portions of the plume. The objective is to treat the source area (former UST location) soil and groundwater contamination to cleanup target levels and the outer plume areas to NA (natural attenuation) standards.

2.0 Description of May 28, 2003, Site Visit, Preventative and Corrective Maintenance by C. Priester

- The system was on at main power disconnect and running upon arrival.
- One nitrous oxide cylinder was not present and was replaced. Two partial cylinders were left in place. Checked for leaks—none detected.
- Checked TEP cylinder fluid level – added.. Flow OK at 50%.
- Checked air compressor inlet air filters. Checked for leaks – none detected.
- New ventilation fan working. Verified thermostat function.
- System air flows were briefly verified, and left in current configuration to maximize flow to area of plume originally outside of treatment zone, as well as maintenance flow to original area.
- System left to continue running on compressors 1 and 2.
- Blue hose to all west side compressors was replaced during March O&M event, and no signs of leaks were detected.
- System was left on.

3.0 Operation efficiencies

Maximum remedial efficiencies are presently achieved by continuous operations to selected injection wells.

4.0 Remedial progress

Aggregate contaminant mass in the CF46W treatment area has been reduced by 100%. Contamination is evident in the groundwater from MW-26I, outside of the intended treatment area. The Magnus system will continue to operate and be directed to this area in an attempt to influence the microorganism population and continue contaminant degradation.

4.1 Flow rate monitoring

Air flow rates to injection wells previously were balanced to achieve maximum air flow to the deep injection wells while maintaining air flow to the intermediate wells and were left as set. Flow through TEP cylinder at 50%..

5.0 Recommendations

Re-balance system as needed as future monitoring well laboratory report results are received and analyzed.

pHA-ER OPERATION and MAINTENANCE LOG

Site Name: Cecil Field Site 46 East

Personnel on Site: CP

Date: 5/28/03
Arrival Time: 1:30 PM
Departure Time: 4:30 AM

Exterior Parameters	Arrival		Departure		Comments
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			17,659.00		
Pressure Hour Meter (Hours)			17,576.00		
Air Supply					
Leg 1 (PSIG)		70	70		
Leg 2 (PSIG)		70	70		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	800/80	AG	800/80	AG	
Cylinder 2 (psig, primary/secondary)	0/80	AG	750/80	AG	
Cylinder 3 (psig, primary/secondary)	0/80	AG	650/80	AG	
Cylinder 4 (psig, primary/secondary)	800/80	AG	800/80	AG	
Cylinder 5 (psig, primary/secondary)					
Flow Meter (CFH)		1.5		1.5	
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.5		1.5		Added TEP
Air Flow (CFM)	1		1		
Air Flow					
Inj. Well I4 (Valve % Open/CFM)	20		20		No change to air flow distribution to leg 1 .
Inj. Well I5 (Valve % Open/CFM)	100		100		
Inj. Well D9 (Valve % Open/CFM)	0		0		
Inj. Well D10 (Valve % Open/CFM)	0		0		
Inj. Well D11 (Valve % Open/CFM)	0		0		
Inj. Well I2 (Valve % Open/CFM)	0		0		
Inj. Well I3 (Valve % Open/CFM)	100		100		
Inj. Well I6 (Valve % Open/CFM)	100		100		
Inj. Well I7 (Valve % Open/CFM)	100		100		
Inj. Well I8 (Valve % Open/CFM)	0		0		
Inj. Well I1 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		No change to air flow distribution to leg 2 .
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	100		100		
Inj. Well D4 (Valve % Open/CFM)	50		50		
Inj. Well D5 (Valve % Open/CFM)	0		0		
Inj. Well D6 (Valve % Open/CFM)	40		40		
Inj. Well D7 (Valve % Open/CFM)	40		40		
Inj. Well D8 (Valve % Open/CFM)	0		0		

Maintenance Information	Maintenance Performed
Nitrous System Cylinders/Regulators	OK.
Nitrous Oxide Solenoid Valve	OK
TEP System	OK. IV 100%, OV 100%, BPV 50%
AC Gast M853 Mod 5K49ZN4223	
#1	Replaced relief valve sheared off at threads.
#2	Removed for service.
#3	OK
#4	Previously removed
Air Legs/ Solenoid Valves	OK
Ventilation Fans	OK. Roof fan OK. Verified thermostat function.
Primary Electrical System	OK
PLC-Telemetry	OK
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK

Additional Notes:

Flow continues to be directed to plume hot spot.

Rewired compressor #1 fro service and restarted.

Returned 3 MT nitrous cylinders to AG Jax. Picked up 4 full nitrous cylinders. and 4 for Central Florida.

PhA-ER Monthly System O&M Progress Report
Building 46 East Unit
May 28, 2003, 2003 O&M Event

1.0 Introduction

Building 46 was the former base gas station that operated from 1946-1987. The station had a total of eight (8) UST's which were all removed in 1988. Contamination assessments conducted in 1997 and 1998 indicates an extensive vadose zone and groundwater impact from the former gas station operations. The plume extends on the east and west sides of New World (former D Avenue). Two MAGNUS (multi application gas nutrient systems) bioremediation systems were installed to treat the east and west portions of the plume. The objective is to treat the source area (former UST locations) soil and groundwater contamination to cleanup target levels and the outer plume areas to NA (natural attenuation) standards.

2.0 Description of May 28, 2003 Site Visit, Preventative and Corrective Maintenance by C. Priester

- The system was on at the main power disconnect and running upon arrival.
- Removed two empty AG nitrous oxide cylinders and replaced with two full AG cylinders. Reset the pressures and flow. Checked for leaks—none detected.
- Checked the TEP level in the cylinder the level was OK. System left at 50% bypass flow.
- Repaired Compressor #1 venting relief valve by replacing valve that was sheared off at the thread connections. A large extractor and new relief valve will be brought at the next O&M event. The compressor was rewired and placed back in service. Compressors #2 was removed from service to be rebuilt and #3 appeared to operate normally.
- All compressor intake filters were checked.
- Compressor cowl screws were checked and tightened if necessary.
- Operation of the two active compressors was verified.
- The roof top ventilation fan was checked, and operation of the thermostat verified. Trailer interior temperatures were observed to be markedly cooler since the roof fan installation.
- Verified air flows, and all valves and directed flow remain the same. Checked for system leaks—none detected.
- Documented power and pressure hour meter readings.
- Secured system trailer.
- System left on and running.

3.0 Operation efficiencies

Maximum remedial efficiencies are presently achieved by pulsed operations to selected injection wells. Flow has been adjusted based on the most recent laboratory data to shift more air and nutrient into hot zone area and less to peripheral injection wells.

4.0 Remedial progress

Latest data continues to demonstrate a decline in BTEX concentrations in the original source area (shallow to intermediate zone). Total contaminant concentration reductions are approximately 85% overall.

4.1 Flow rate monitoring

Air flow rates to injection wells were adjusted based on the most recent laboratory data to concentrate flow to the remaining areas of contamination.

5.0 Recommendations

Re-balance system as needed as future monitoring well laboratory report results are received and analyzed. Consider installation of shallow injection wells in the shallow zone of the original source area to accelerate reductions.

pHA-ER OPERATION and MAINTENANCE LOG
Site Name: Cecil Field Site 46 East
Personnel on Site: C Priester

Date:	6/6/03	6/26/03
Arrival Time:	12:35 PM	8:00 AM
Departure Time:	3:35 PM	10:00 AM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		Off on 6/6
Power Hour Meter (Hours)	17759	6/6/03	18,161	6/26/03	
Pressure Hour Meter (Hours)	17676	6/6/03	18,078	6/26/03	
Air Supply					
Leg 1 (PSIG)		70	70		
Leg 2 (PSIG)		70	70		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	0/80	AG	800/80	AG	3 Cylinders replaced 6/6
Cylinder 2 (psig, primary/secondary)	0/80	AG	750/80	AG	
Cylinder 3 (psig, primary/secondary)	0/80	AG	650/80	AG	
Cylinder 4 (psig, primary/secondary)	800/80	AG	800/80	AG	
Cylinder 5 (psig, primary/secondary)					
Flow Meter (CFH)		1.5		1.5	
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	1		1.8		Added TEP
Air Flow (CFM)	1		1		
Air Flow					
Inj. Well I4 (Valve % Open/CFM)	20		20		No change to air flow distribution to leg 1 .
Inj. Well I5 (Valve % Open/CFM)	100		100		
Inj. Well D9 (Valve % Open/CFM)	0		0		
Inj. Well D10 (Valve % Open/CFM)	0		0		
Inj. Well D11 (Valve % Open/CFM)	0		0		
Inj. Well I2 (Valve % Open/CFM)	0		0		
Inj. Well I3 (Valve % Open/CFM)	100		100		
Inj. Well I6 (Valve % Open/CFM)	100		100		
Inj. Well I7 (Valve % Open/CFM)	100		100		
Inj. Well I8 (Valve % Open/CFM)	0		0		
Inj. Well I1 (Valve % Open/CFM)	0		0		No change to air flow distribution to leg 2 .
Inj. Well D1 (Valve % Open/CFM)	100		100		
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	100		100		
Inj. Well D4 (Valve % Open/CFM)	50		50		
Inj. Well D5 (Valve % Open/CFM)	0		0		
Inj. Well D6 (Valve % Open/CFM)	40		40		
Inj. Well D7 (Valve % Open/CFM)	40		40		
Inj. Well D8 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulators	OK.
Nitrous Oxide Solenoid Valve	OK
TEP System	OK. IV 100%, OV 100%, BPV 50%
AC Gast M853 Mod 5K49ZN4223	
#1	OK
#2	Previously removed
#3	OK
#4	Previously removed
Air Legs/ Solenoid Valves	OK
Ventilation Fans	OK. Roof fan OK. Verified thermostat function.
Primary Electrical System	OK
PLC-Telemetry	OK
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK
Additional Notes:	Flow continues to be directed to plume hot spot.

PhA-ER Monthly System O&M Progress Report
Building 46 East Unit
June 6, 2003 and June 26, 2003 O&M Event

1.0 Introduction

Building 46 was the former base gas station that operated from 1946-1987. The station had a total of eight (8) UST's which were all removed in 1988. Contamination assessments conducted in 1997 and 1998 indicates an extensive vadose zone and groundwater impact from the former gas station operations. The plume extends on the east and west sides of New World (former D Avenue). Two MAGNUS (multi application gas nutrient systems) bioremediation systems were installed to treat the east and west portions of the plume. The objective is to treat the source area (former UST locations) soil and groundwater contamination to cleanup target levels and the outer plume areas to NA (natural attenuation) standards.

2.0 Description of June 6 and June 26, 2003 Site Visit, Preventative and Corrective Maintenance by C. Priester

- The system was off at the main power disconnect on 6/6/03 and running upon arrival 6/26/03.
- Removed three empty AG nitrous oxide cylinders and replaced with three full AG cylinders. Reset the pressures and flow. Checked for leaks—none detected.
- Checked the TEP level in the cylinder added TEP 6/6/03. System left at 50% bypass flow.
- All compressor intake filters were checked.
- Compressor cowl screws were checked and tightened if necessary.
- Operation of the two active compressors was verified.
- The roof top ventilation fan was checked, and operation of the thermostat verified. Trailer interior temperatures were observed to be markedly cooler since the roof fan installation.
- Verified air flows, and all valves and directed flow remain the same. Checked for system leaks—none detected.
- Documented power and pressure hour meter readings.
- Secured system trailer.
- System left off on 6/6/03
- System left on and running on 6/26/03.

3.0 Operation efficiencies

Maximum remedial efficiencies are presently achieved by pulsed operations to selected injection wells. Flow has been adjusted based on the most recent laboratory data to shift more air and nutrient into hot zone area and less to peripheral injection wells.

4.0 Remedial progress

Latest data continues to demonstrate a decline in BTEX concentrations in the original source area (shallow to intermediate zone). Total contaminant concentration reductions are approximately 85% overall.

4.1 Flow rate monitoring

Air flow rates to injection wells were adjusted based on the most recent laboratory data to concentrate flow to the remaining areas of contamination.

5.0 Recommendations

Re-balance system as needed as future monitoring well laboratory report results are received and analyzed. Consider installation of shallow injection wells in the shallow zone of the original source area to accelerate reductions.

pHA-ER OPERATION and MAINTENANCE LOG
Site Name: Cecil Field Site 46 West
Personnel on Site: C Priester

Date:	6/6/03	6/26/03
Arrival Time:	12:35 PM	8:00 AM
Departure Time:	3:36 PM	10:00 AM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		Off on 6/6
Power Hour Meter (Hours)	8673	6/6/03	8,927.0	6/26/03	This meter is malfunctioning.
Pressure Hour Meter (Hours)	18133	6/6/03	18,603.0	6/26/03	
Air Supply					
Leg 1 (PSIG)	35		35		
Leg 2 (PSIG)	35		35		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	700/70	AG	700/70	AG	AG Jax
Cylinder 2 (psig, primary/secondary)	700/70	AG	700/70	AG	AG Jax
Cylinder 3 (psig, primary/secondary)	700/70	AG	700/70		AG Jax
Flow Meter (CFH)	0.5		0.5		
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.6		1.50		TEP added
Air Flow (CFM)	1		1		No Change
Air Flow					
Inj. Well I1 (Valve % Open/CFM)	0		0		No change to flow rates.
Inj. Well I2 (Valve % Open/CFM)	25		25		
Inj. Well I3 (Valve % Open/CFM)	0		0		
Inj. Well I4 (Valve % Open/CFM)	25		25		
Inj. Well I5 (Valve % Open/CFM)	25		25		
Inj. Well I8 (Valve % Open/CFM)	25		25		No change to flow rates.
Inj. Well I6 (Valve % Open/CFM)	25		25		
Inj. Well I7 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**		
Nitrous System Cylinders/Regulators	OK. No leaks.		
Nitrous Oxide Solenoid Valve	OK		
TEP System	OK, IV 100%, OV 100%, BPV 50%		
AC Gast M853 Mod 5K49ZN4223			
#1 SN 0103706074	OK	Checked inlet filters.	Turned off 6/26
#2 SN 0103706070	OK	Checked inlet filters.	Turned off 6/26
#3 SN 0103706076	Turned off 6/6	Turned on 6/26	
#4 SN0103706073	Turned off 6/6	Turned on 6/26	
Air Legs/ Solenoid Valves	OK.		
Ventilation Fan	OK.		
Primary Electrical System	OK		
PLC-Telemetry	OK		
Relay Assembly	OK		
Pressure Switch	OK		
Flow Switch	OK		

Additional Notes:
System left to operate with 3 nitrous cylinders, since flow requirements have been reduced.
Flows continue to be directed towards maintenance of treatment area.

PhA-ER Monthly System O&M Progress Report
Building 46 West Unit
June 6, 2003 and June 26, 2003 O&M Event

1.0 Introduction

Building 46 was the former base gas station that operated from 1946-1987. The station had a total of eight (8) UST's which were all removed in 1988. Contamination assessments conducted in 1997 and 1998 indicates an extensive vadose zone and groundwater impact from the former gas station operations. The plume extends on the east and west sides of New World (former D Avenue). Two MAGNUS (multi application gas nutrient systems) bioremediation systems were installed to treat the east and west portions of the plume. The objective is to treat the source area (former UST location) soil and groundwater contamination to cleanup target levels and the outer plume areas to NA (natural attenuation) standards.

2.0 Description of June 6 and June 26, 2003, Site Visit, Preventative and Corrective Maintenance by C. Priester

- The system was off at main power disconnect on 6/6/2003 and running upon arrival on 6/26/2003.
- Three partial cylinders were left in place. Checked for leaks—none detected.
- Checked TEP cylinder fluid level – added TEP. Flow OK at 50%.
- Checked air compressor inlet air filters. Checked for leaks – none detected.
- New ventilation fan working. Verified thermostat function.
- System air flows were briefly verified, and left in current configuration to maximize flow to area of plume originally outside of treatment zone, as well as maintenance flow to original area.
- System left to continue running on compressors 3 and 4.
- Blue hose to all west side compressors was replaced during March O&M event, and no signs of leaks were detected.
- System was left on.

3.0 Operation efficiencies

Maximum remedial efficiencies are presently achieved by continuous operations to selected injection wells.

4.0 Remedial progress

Aggregate contaminant mass in the CF46W treatment area has been reduced by 100%. Contamination is evident in the groundwater from MW-26I, outside of the intended treatment area. The Magnus system will continue to operate and be directed to this area in an attempt to influence the microorganism population and continue contaminant degradation.

4.1 Flow rate monitoring

Air flow rates to injection wells previously were balanced to achieve maximum air flow to the deep injection wells while maintaining air flow to the intermediate wells and were left as set. Flow through TEP cylinder at 50%..

5.0 Recommendations

Re-balance system as needed as future monitoring well laboratory report results are received and analyzed.