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2008 ANNUAL LONG TERM MONITORING REPORT FOR NORTH FUEL FARM NAS CECIL FIELD FL

4/15/2009

SOLUTIONS-IES INC

2008 ANNUAL
LONG-TERM MONITORING REPORT

NORTH FUEL FARM
FORMER NAS CECIL FIELD
JACKSONVILLE, FL

CONTRACT NO. N62467-05-G-0193
CONTRACT TASK ORDER NO. 0003

Prepared for:

NAVFAC SOUTHEAST
4130 Faber Place Drive, Suite 202
North Charleston, South Carolina 29405

Prepared by:

SOLUTIONS-IES, INC.
1101 Nowell Road
Raleigh, NC 27607
www.solutions-ies.com

SOLUTIONS-IES PROJECT NO. 8030.08A2.NAVF

APRIL 15, 2009

Solutions-IES
Industrial & Environmental Services

SIGNATURE PAGE

We, the undersigned, do hereby affirm that the information contained in this report is accurate and correct to the best of our knowledge and belief.

JESSICA LYNN DEHART
LICENSE
No. 2538
STATE OF FLORIDA
PROFESSIONAL GEOLOGIST

4/15/09 #2538

Jessica L. Dehart, P.G. — Date — Registration No.
Project Manager

4-15-09

Brian M. Rebar — Date
Senior Project Manager

TABLE OF CONTENTS

1.0 INTRODUCTION 1
1.1 SITE LOCATION AND DESCRIPTION 1
1.2 SITE HISTORY 1
2.0 GROUNDWATER MONITORING SUMMARY 2
2.1 MONITORING WELL OBSERVATIONS 4
2.2 WATER LEVEL MEASUREMENTS 4
2.3 GROUNDWATER SAMPLING 4
2.3.1 Methodology 4
2.3.2 Laboratory Analyses 5
2.4 INVESTIGATION DERIVED WASTE (IDW) 5
3.0 AS SYSTEM PERFORMANCE SUMMARY 5
3.1 SYSTEM OPERATION 5
4.0 SAMPLING AND ANALYTICAL RESULTS 6
4.1 DATA VALIDATION 6
4.2 NATURAL ATTENUATION PARAMETERS 6
4.3 GROUNDWATER RESULTS 7
5.0 CONCLUSIONS AND RECOMMENDATIONS 8
6.0 REFERENCES 10

FIGURES

Figure 1 – Site Location Map
Figure 2 – Well Location Map
Figure 3 – Contaminant Concentration Map
Figure 4 – Historical Benzene Concentrations in Shallow Wells
Figure 5 – Historical Benzene Concentrations in Intermediate Wells
Figure 6 – Historical Benzene Concentrations in Deep Wells
Figure 7 – Historical Ethylbenzene Concentrations in Select Wells
Figure 8 – Historical Xylenes Concentrations in Select Wells
Figure 9 – Historical Isopropylbenzene Concentrations in Select Wells
Figure 10 – Historical Naphthalene (Method 8260B) Concentrations in Select Wells

TABLES

Table 1 – Groundwater Elevations
Table 2 – Field and Natural Attenuation Parameters
Table 3 – Laboratory Analytical Results

APPENDICES

Appendix A – Groundwater Sampling Logs
Appendix B – Laboratory Analytical Report and Chain-of-Custody Forms

1.0 INTRODUCTION

Solutions-IES, Inc. (Solutions-IES) has been contracted by the Navy (NAVFAC Southeast), to provide long-term groundwater monitoring and operation and maintenance (O&M) services at North Fuel Farm (NFF), Former Naval Air Station (NAS) Cecil Field, Jacksonville, Florida, under Basic Ordering Agreement (BOA) Contract Number N62467-05-G-0193, Contract Task Order Number 0003. Under this contract, Solutions-IES performs quarterly groundwater monitoring. Solutions-IES is also contracted to perform O&M of the air sparge (AS) system but has not yet taken over this task from CH2M HILL. This Annual Monitoring Report summarizes the activities conducted at the site from October through December 2008. Data for the fourth quarter 2008 sampling event, conducted in December 2008, are presented in detail. Additional information from the October 2008 sampling event has been provided in a previously submitted quarterly monitoring report.

1.1 SITE LOCATION AND DESCRIPTION

The site is located at the northeast corner of Aviation Avenue and Loop Road at NAS Cecil Field. A site location map is included as **Figure 1**.

The NFF site formerly contained six 595,000-gallon JP-5 jet fuel storage tanks. Two of the tanks were installed in 1952 and four tanks were installed in 1954. Overflow protection was installed on all of the tanks in 1987. One of the tanks (76E) was removed from service in 1991 when a leak was discovered. The remaining five storage tanks, along with the earthen containment mound and associated impacted soil, were removed from the site in 2000 and 2001.

1.2 SITE HISTORY

Several spills from the tanks were identified at the NFF site. A spill of approximately 23,000 gallons occurred in 1987 and an additional 913,000 gallons was spilled in 1991. Corrective action to address the petroleum impacts was completed in 1991 and a Corrective Action Completion Report was submitted in 1992. Approximately 140,000 tons of fuel impacted soil were removed from the site (CH2M HILL, 2008). A supplemental investigation was completed in 1994 to assess impacts from a 1,800 gallon spill that occurred in November 1993.

Results of previous investigations conducted to determine the extent of impact from the petroleum release indicate groundwater contamination above the Florida Department of Environmental Protection (FDEP) Groundwater Cleanup Target Levels (GCTLs) for the following constituents: benzene, ethylbenzene, toluene and xylenes (BTEX); naphthalene, 1-methylnaphthalene and 2-methylnaphthalene. The extent of petroleum contamination extends to the water table from depths of approximately 5 feet below ground surface (ft bgs) to approximately 110 ft bgs. It was estimated that approximately 917,000 square feet were impacted with contaminants at concentrations exceeding the GCTLs (TtNUS 2004).

A combination of remediation techniques was chosen for the Site, including AS, biosparge (BS) and soil vapor extraction (SVE). The AS system was installed in areas where benzene concentrations exceeded 1,000 micrograms per liter (μg/L). Eighty-two vertical AS wells were installed in these areas. The BS system was installed in areas where benzene concentrations ranged from 100 μg/L to 1,000 μg/L. One hundred twenty-five vertical BS wells were installed in these areas. The SVE system was installed in the footprint of the AS system to capture vapor released as a result of the AS system operation. Ten horizontal SVE collection lines were installed at a depth of approximately 3 ft bgs in these areas.

Full-scale operation of the remediation systems began in mid-July 2005. CH2M HILL conducted an optimization study of the system and provided their recommendations in a report submitted in June 2008. The report recommended redefining the target treatment areas based on updated groundwater data, reconfiguring the treatment system and continued sampling the existing monitoring well network on a quarterly basis for one year to determine the need for future use (CH2M HILL, 2008). The AS system was reconfigured and restarted in November 2008. The system continues to operate at the site but was shut down two weeks prior to the December 2008 sampling event.

2.0 GROUNDWATER MONITORING SUMMARY

Currently, 16 monitoring wells are sampled during each event at the site. The wells are screened at depths ranging between approximately 5 and 115 ft bgs. The monitoring wells are sampled on a quarterly basis in March, June, September, and December.

During each quarterly monitoring event, water levels were recorded and samples were collected from the wells listed below for analysis of volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), total recoverable petroleum hydrocarbons (TRPH), natural attenuation (NA) parameters and field

parameters as detailed in the following tables. Locations of the wells at this site are illustrated on **Figure 2**.

Monitoring Well	Parameters
CEF-372-13R	VOC, PAH, TRPH
CEF-76-49S	VOC, PAH, TRPH, NA
CEF-76-50I	VOC, PAH, TRPH
CEF-76-57S	VOC, PAH, TRPH, NA
CEF-76-61I	VOC, PAH, TRPH, NA
CEF-76-70I	VOC, PAH, TRPH
CEF-76-93S	VOC, PAH, TRPH
CEF-76-94S	VOC, PAH, TRPH
CEF-76-95S	VOC, PAH, TRPH, NA
CEF-76-98D	VOC, PAH, TRPH
CEF-76-99D	VOC, PAH, TRPH, NA
CEF-76-100D	VOC, PAH, TRPH, NA
CEF-76-104D	VOC, PAH, TRPH, NA
CEF-76-110D	VOC, PAH, TRPH
CEF-76-113S	VOC, PAH, TRPH
CEF-76-116D	VOC, PAH, TRPH, NA

Analysis	Constituents	Analytical Method
VOCs		8260B
PAHs		8310
TRPH		FL PRO
NA Parameters	Sulfide	4500S
	Sulfate	300
	Total Organic Carbon	5310B
	Dissolved Oxygen	CHEMetrics® Kit/ Field Meter
	Total Inorganic Carbon	5310B
Field Parameters	Temperature pH Conductivity Turbidity ORP	Direct-reading meter

2.1 MONITORING WELL OBSERVATIONS

The integrity of the monitoring wells included in the long-term monitoring plan was evaluated during each sampling event. The field team noted no extensive damage (i.e., the need for well replacement or repair) to the wells during the December 2008 event. However, minor issues that do not affect the well integrity were noted such as missing bolts and locks.

2.2 WATER LEVEL MEASUREMENTS

Water level measurements were recorded quarterly for the 16 wells listed above. The top-of-casing elevations, depth-to-water, and calculated water level elevations are provided in **Table 1**. No potentiometric maps were prepared for this sampling event because of the small amount of data collected compared to the relative area over which the wells are located. However, based on historical information groundwater flow at the site is towards the south (CH2M HILL, 2007).

2.3 GROUNDWATER SAMPLING

2.3.1 Methodology

Groundwater sampling was conducted at the NFF site in October and December 2008. Sixteen monitoring wells (CEF-372-13R, CEF-76-49S, CEF-76-50I, CEF-76-57S, CEF-76-61I, CEF-76-70I, CEF-76-93S, CEF-76-94S, CEF-76-95S, CEF-76-98D, CEF-76-99D, CEF-76-100D, CEF-76-104D, CEF-76-110D, CEF-76-113S and CEF-76-116D) were purged and sampled using low-flow methodology.

Wells were purged immediately before sampling using a low flow peristaltic pump, at an approximate rate equal to or less than the groundwater recharge rate, until field parameters (temperature, pH, conductivity, turbidity, and dissolved oxygen [DO]) stabilized. Oxidation-reduction potential (ORP) readings were also recorded during purging. Samples were collected for field analysis of DO using CHEMetrics® field test kits and field meters. Results of field measurements are summarized on **Table 2**. Copies of the groundwater sampling logs, including all field parameter measurements, are provided in **Appendix A**.

Groundwater sampling was conducted in general accordance with applicable state and local guidelines, and the Solutions-IES Work Plan (SIES, 2008). All samples collected were stored on ice and delivered to

Accutest Laboratory, a Florida-certified and National Environmental Laboratory Accreditation Program certified laboratory located in Orlando, Florida, via courier, under chain-of-custody procedures.

2.3.2 Laboratory Analyses

Groundwater samples collected at the site were analyzed for the following:

- VOCs by EPA Method 8260B
- PAHs by EPA Method 8310
- TRPH by FL PRO
- Sulfate by EPA Method 300.0
- Sulfide by EPA Method 4500S
- Total Organic Carbon by Standard Method 5310B
- Inorganic Carbon by Standard Method 5310B

A Level II data report was provided by the laboratory and can be found in **Appendix B**.

2.4 INVESTIGATION DERIVED WASTE (IDW)

Purge water, wash water and rinse water were collected in 5-gallon containers and transferred to 55-gallon drums, segregated by historically hazardous wells and historically non-hazardous wells. IDW from wells CEF-76-50I, CEF-76-70I, CEF-76-110D and CEF-76-113S were transferred to Drum SIES1208-004 (hazardous). IDW from the 12 remaining wells was transferred to Drum SIES1208-003 (non-hazardous). The drums were staged in the IDW Storage Building (Building 536). The NAS Jacksonville Public Works Department (PWD-JAX) was notified on December 16, 2008 that the drums were being kept in the building. The hazardous and non-hazardous data packages were forwarded to PWD-JAX on January 22, 2009.

3.0 AS SYSTEM PERFORMANCE SUMMARY

3.1 SYSTEM OPERATION

The AS system was not operational during the December 2008 site event. According to CH2M HILL personnel, several repairs and modifications need to be completed before Solutions-IES will take over O&M of the system.

4.0 SAMPLING AND ANALYTICAL RESULTS

4.1 DATA VALIDATION

Accutest data analysts validated all data according to laboratory standard operating procedures (SOPs). None of the data was rejected as a result of the data validation. However, as indicated in the laboratory case narrative, several QC samples were outside control limits for several of the methods run by the lab. Most QC issues were noted as matrix interference, sample homogeneity, and results biased low. The validation process also resulted in several data qualifiers. These are shown with the analyte concentrations in **Table 3**.

A limited data validation was also performed by Solutions-IES. The data validation evaluated data completeness, holding time compliance, laboratory blank contamination and detection limits. Acetone and methylene chloride were identified in several of the samples at concentrations above the laboratory reporting limits. These detections are reportedly due to laboratory contamination. No other issues were identified.

4.2 NATURAL ATTENUATION PARAMETERS

As part of each 2008 quarterly sampling event, groundwater samples were analyzed for the following natural attenuation parameters: DO, sulfide, sulfate, total organic carbon (TOC), and total inorganic carbon (TIC). In addition, field parameters including temperature, pH, conductivity, turbidity, and ORP were measured and recorded during well purging. The results of the field measurements and natural attenuation parameters are summarized in **Table 2**.

Field measurements indicate that DO concentrations at the NFF site are relatively low with most of the wells exhibiting values between 0.0 to 1 mg/L in December 2008. Monitoring well CEF-076-49S had a higher DO concentration of 4 mg/L which is not consistent with historical values for this well. DO measurements were collected with a DO meter and a flow through cell while purging and confirmed with a CHEMetrics® field kit at the time of sample collection. The low values suggest that the groundwater at the site is probably anaerobic. The pH measured at the site in December 2008 generally ranges from 1.95 to 7.29. The values are generally consistent with historical information. However, well CEF-076-94S has shown a significant increase in pH (from 2.50 to 6.22) since October 2007.

Under anaerobic conditions, sulfate may be used as an electron acceptor during the process of biological degradation of petroleum compounds. The sulfate is reduced to sulfide under anaerobic conditions. Decreasing levels of sulfate coupled with an increase in sulfide concentrations and decreased levels of BTEX can be used as an indicator that anaerobic biodegradation of the BTEX compounds may be occurring under sulfate reducing conditions. Sulfate concentrations exceeded the GCTL (250 mg/L) in wells CEF-076-49S, CEF-076-57S, CEF-076-99D, and CEF-076-104D; and exceeded the NADSC (2,500 mg/L) in well CEF-076-49S. Several wells that had sulfate concentrations in excess of the regulatory limits in October 2008 have shown significant reductions during the December 2008 sampling event. In particular, wells CEF-076-061I and CEF-076-116D both had sulfate concentrations above 10,000 μg/L in October but had concentrations <1 μg/L in December. In addition, well CEF-076-100D had a sulfate concentration of 2,600 μg/L in October and was <1 μg/L in December. The dramatic reduction in concentration is probably not attributable to sulfate reduction processes as only minor changes in sulfide concentrations in these wells were identified.

4.3 GROUNDWATER RESULTS

Eleven of the 16 wells sampled contained concentrations of constituents above the GCTLs this reporting period: CEF-076-49S, CEF-076-50I, CEF-076-57S, CEF-076-61I, CEF-076-70I, CEF-076-98D, CEF-076-99D, CEF-076-104D, CEF-076-110D, CEF-076-113S and CEF-076-116D. The constituents included benzene, ethylbenzene, xylenes, isopropylbenzene, methylene chloride, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, naphthalene and sulfate. Four wells (CEF-076-49S, CEF-076-70I, CEF-076-110D and CEF-076-113S) had constituents at concentrations above the Natural Attenuation Default Source Concentrations (NADSCs). Locations and constituent concentrations in excess of the GCTLs are shown on **Figure 3**.

The following parameters were detected in the wells identified below during the December 2008 sampling event. A discussion of sulfate concentrations is presented in Section 4.2.

- Benzene was detected above the GCTL (1 μg/L) in wells CEF-076-49S, CEF-076-50I, CEF-076-57S, CEF-076-61I, CEF-076-98D and CEF-076-116D; and above the NADSC (100 μg/L) in wells CEF-076-70I, CEF-076-110D and CEF-076-113S.
- Ethylbenzene was detected above the GCTL (30 μg/L) in well CEF-076-113S.
- Xylenes were detected above the GCTL (20 μg/L) in well CEF-076-70I and above the NADSC (200 μg/L) in well CEF-076-113S.
- Isopropylbenzene was above the GCTL (0.8 μg/L) in well CEF-706-61I; and was detected above the NADSC (8 μg/L) in well CEF-076-70I.

- Methylene chloride was detected above the GCTL (5 μg/L) in wells CEF-076-70I, and CEF-076-110D; and above the NADSC in well CEF-076-113S, but the values had qualifiers that indicated suspected laboratory contamination.
- 1,2,4-trimethylbenzene was detected above the GCTL (10 μg/L) in well CEF-076-61I; and above the NADSC (100 μg/L) in wells CEF-076-70I and CEF-076-113S.
- 1,3,5-trimethylbenzene was detected above the GCTL (10 μg/L) in wells CEF-076-70I and CEF-076-113S.
- Naphthalene (Method 8310) concentrations were detected above the GCTL in wells CEF-076-70I and CEF-076-113S. Naphthalene (Method 8260) concentrations were detected above the GCTL (14 μg/L) in well CEF-076-70I. The laboratory reporting limit for naphthalene (8260) was 200 μg/L for well CEF-076-113S during December 2008. Therefore, this concentration in this well may be in excess of the GCTL.

A summary of historical sampling results can be found in **Table 3**. The December 2008 laboratory report is included in **Appendix B**.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The October and December 2008 sampling events were conducted in general accordance with previous sampling events. No changes have been made to the monitoring plan since Solutions-IES was awarded this contract in August 2008. Historical water level data suggests that groundwater at this site flows to the south. No free product was detected in any of the wells measured during the 2008 sampling events.

Benzene concentrations remain above the GCTL in 9 of the 16 wells sampled during 2008. The concentrations in three of these wells, (CEF-076-70I, CEF-076-110D and CEF-076-113S) remain above the NADSC. **Figures 4, 5** and **6** show the historical concentrations of benzene in the shallow, intermediate and deep wells, respectively.

The ethylbenzene concentrations continue to decrease in wells CEF-76-113S and CEF-76-93S during 2008. **Figure 7** illustrates the historical ethylbenzene concentrations in these wells. This constituent has been detected below the GCTL for three consecutive sampling events in well CEF-76-93S. The concentration in well CEF-76-113S has decreased below the NADSC (300 μg/L) but still remains above the GCTL (30 μg/L).

The highest concentration of xylenes has historically been detected in well CEF-76-113S. The xylenes concentrations in this well continue to exceed the NADSC (200 μg/L). The concentration in well CEF-76-70I was below the NADSC value for the second consecutive sampling event. However, xylenes still

exceeded the GCTL in this well. Wells CEF-76-93S and CEF-76-110D have both exhibited concentrations below the GCTL for three consecutive sampling events. **Figure 8** illustrates historical xylenes concentrations in wells exhibiting GCTL exceedances since 2006.

Isopropylbenzene concentrations remain above the GCTL in well CEF-076-61I, and above the NADSC in well CEF-076-70I. The concentration in well CEF-076-113S was not detected above the laboratory method detection limit (40 μg/L). However, it should be noted that the MDL is significantly higher than both the GCTL (0.8 μg/L) and NADSC (8 μg/L) for this constituent. The concentration in well CEF-076-93S was slightly above the GCTL in October 2008 but fell below the GCTL in December 2008. **Figure 9** shows historical isopropylbenzene concentrations in wells CEF-076-61I, CEF-076-70I, CEF-076-93S and CEF-076-113S.

Naphthalene via Method 8260 was detected above the GCTL in only one well this quarter, CEF-076-70I. However, the laboratory reporting limit (200 μg/L) was well above the GCTL (14 μg/L) for this constituent in well CEF-076-113S. Concentrations in wells CEF-076-70I and CEF-076-113S exceeded the GCTL for naphthalene via Method 8310. The concentration in well CEF-076-093S was below the GCTL for the fourth consecutive quarter for both methods. **Figure 10** shows historical naphthalene concentrations in these wells.

Natural attenuation parameters indicate that combinations of aerobic and anaerobic conditions appear to be driving biological processes at the site to reduce BTEX concentrations. In the absence of oxygen, naturally occurring sulfate may also serve as an electron acceptor and contribute to contaminant reduction. Though pH values are low (<4.0) in several wells, and would not typically be considered conducive for bioactivity, it does not preclude biodegradation of BTEX constituents by acid tolerant bacteria, yeasts or fungi that may thrive in these conditions.

Based on analytical results obtained to date, Solutions-IES recommends continuing quarterly water level measurements and groundwater sampling at the sixteen wells included in the monitoring network for constituents of concern, as performed in 2008. Solutions-IES recommends reevaluating the effectiveness of the AS system after one full year of monitoring (October 2009).

6.0 REFERENCES

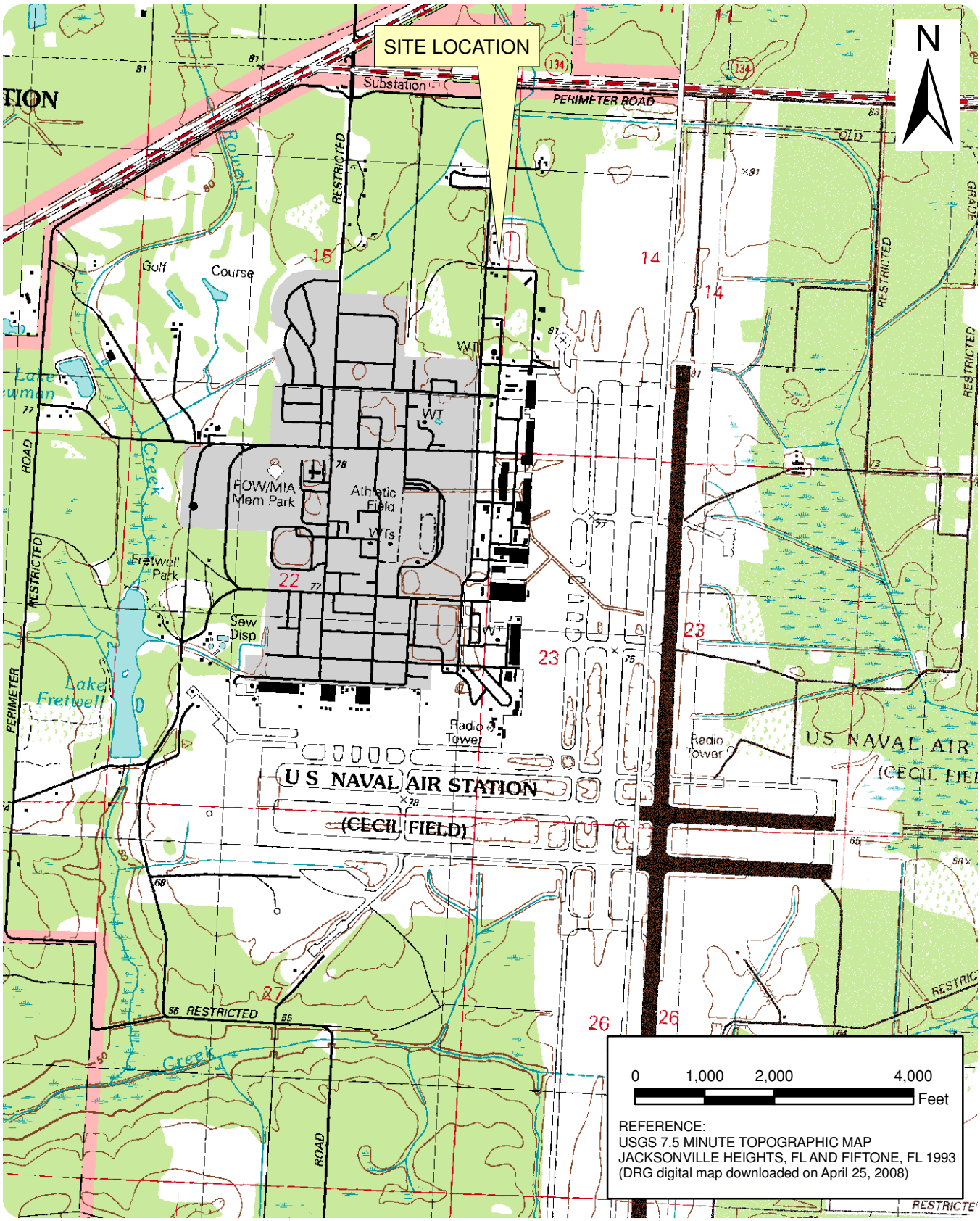
CH2M HILL, 2008. *Optimization Report for Air Sparging/Biosparging Treatment System, North Fuel Farm Site, Former Naval Air Station Cecil Field, Jacksonville, Florida.* Technical Memorandum. June 2008.

CH2M HILL, 2007. *Operations and Monitoring Status Report October 2006 – May 2007.* Air Sparge, Biosparge and SVE System North Fuel Farm Area Remediation Project, Naval Air Station Cecil Field, Jacksonville, Florida. November 2007.

Solutions-IES, Inc., 2008. *Work Plan-Long Term Monitoring and Operation & Maintenance*, Former Naval Air Station Cecil Field, Jacksonville, Florida, September 2008.

TetraTech NUS, 2004. *Remedial Action Plan Addendum for North Fuel Farm, Naval Air Station Cecil Field, Jacksonville, Florida.* March 2004.

FIGURES



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DATE 11/07/08

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Solutions-IES
Industrial & Environmental Services
1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
TEL.: (919) 873-1060 FAX.: (919) 873-1074

SITE LOCATION MAP
NORTH FUEL FARM
NAS CECIL FIELD
JACKSONVILLE, FL

FIGURE:

1

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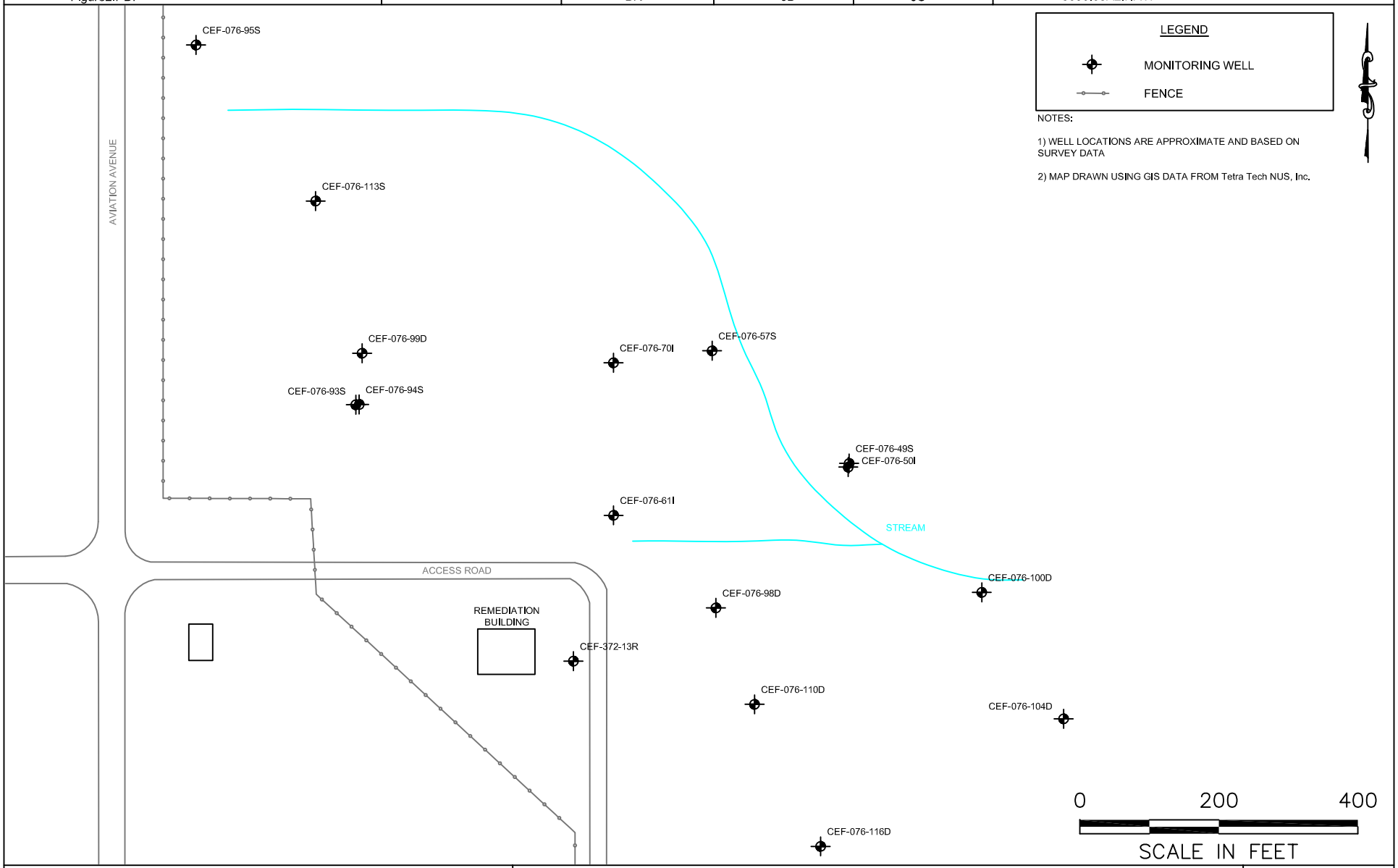

Solutions-IES
Industrial & Environmental Services
1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
TEL.: (919) 873-1060 FAX.: (919) 873-1074

WELL LOCATION MAP
NORTH FUEL FARM - NAS CECIL FIELD
JACKSONVILLE, FL
OCTOBER 2008

FIGURE:
2

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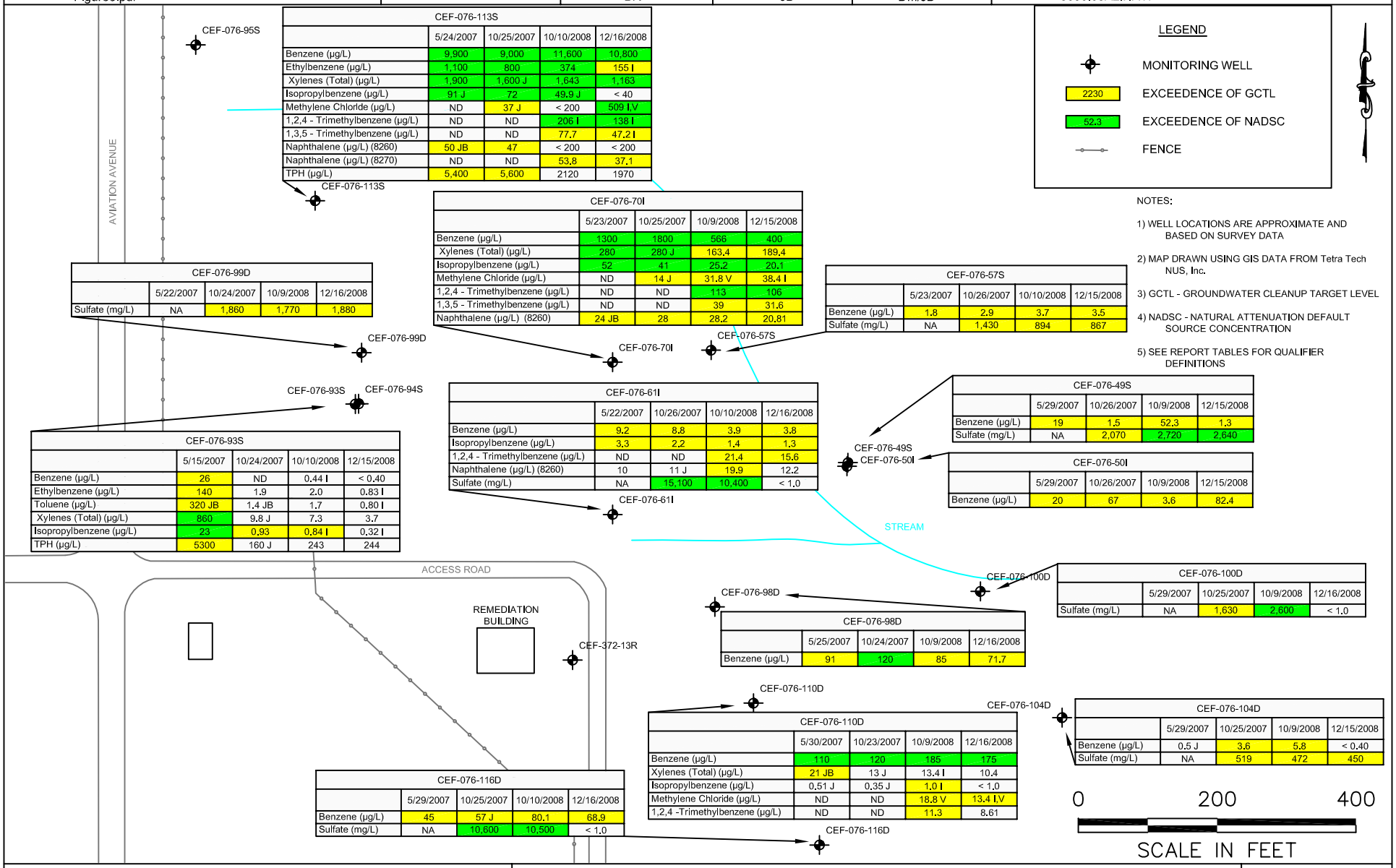
Figure3.pdf	12/15/08	BR	JD	DM/JD	8030.08A2.NAVF



CEF-076-113S	5/24/2007	10/25/2007	10/10/2008	12/16/2008
Benzene (µg/L)	9,900	9,000	11,600	10,800
Ethylbenzene (µg/L)	1,100	800	374	155 I
Xylenes (Total) (µg/L)	1,900	1,600 J	1,643	1,163
Isopropylbenzene (µg/L)	91 J	72	49.9 J	< 40
Methylene Chloride (µg/L)	ND	37 J	< 200	509 I,V
1,2,4 - Trimethylbenzene (µg/L)	ND	ND	206 I	138 I
1,3,5 - Trimethylbenzene (µg/L)	ND	ND	77.7	47.2 I
Naphthalene (µg/L) (8260)	50 JB	47	< 200	< 200
Naphthalene (µg/L) (8270)	ND	ND	53.8	37.1
TPH (µg/L)	5,400	5,600	2120	1970

CEF-076-70I	5/23/2007	10/25/2007	10/9/2008	12/15/2008
Benzene (µg/L)	1300	1800	566	400
Xylenes (Total) (µg/L)	280	280 J	163.4	189.4
Isopropylbenzene (µg/L)	52	41	25.2	20.1
Methylene Chloride (µg/L)	ND	14 J	31.8 V	38.4 I
1,2,4 - Trimethylbenzene (µg/L)	ND	ND	113	106
1,3,5 - Trimethylbenzene (µg/L)	ND	ND	39	31.6
Naphthalene (µg/L) (8260)	24 JB	28	28.2	20.81

CEF-076-99D	5/22/2007	10/24/2007	10/9/2008	12/16/2008
Sulfate (mg/L)	NA	1,860	1,770	1,880

CEF-076-57S	5/23/2007	10/26/2007	10/10/2008	12/15/2008
Benzene (µg/L)	1.8	2.9	3.7	3.5
Sulfate (mg/L)	NA	1,430	894	867

CEF-076-93S	5/15/2007	10/24/2007	10/10/2008	12/15/2008
Benzene (µg/L)	26	ND	0.44 I	< 0.40
Ethylbenzene (µg/L)	140	1.9	2.0	0.83 I
Toluene (µg/L)	320 JB	1.4 JB	1.7	0.80 I
Xylenes (Total) (µg/L)	860	9.8 J	7.3	3.7
Isopropylbenzene (µg/L)	23	0.93	0.84 I	0.32 I
TPH (µg/L)	5300	160 J	243	244

CEF-076-61I	5/22/2007	10/26/2007	10/10/2008	12/16/2008
Benzene (µg/L)	9.2	8.8	3.9	3.8
Isopropylbenzene (µg/L)	3.3	2.2	1.4	1.3
1,2,4 - Trimethylbenzene (µg/L)	ND	ND	21.4	15.6
Naphthalene (µg/L) (8260)	10	11 J	19.9	12.2
Sulfate (mg/L)	NA	15,100	10,400	< 1.0

CEF-076-49S	5/29/2007	10/26/2007	10/9/2008	12/15/2008
Benzene (µg/L)	19	1.5	52.3	1.3
Sulfate (mg/L)	NA	2,070	2,720	2,640

CEF-076-50I	5/29/2007	10/26/2007	10/9/2008	12/15/2008
Benzene (µg/L)	20	67	3.6	82.4

CEF-076-100D	5/29/2007	10/25/2007	10/9/2008	12/16/2008
Sulfate (mg/L)	NA	1,630	2,600	< 1.0

CEF-076-98D	5/25/2007	10/24/2007	10/9/2008	12/16/2008
Benzene (µg/L)	91	120	85	71.7

CEF-076-110D	5/30/2007	10/23/2007	10/9/2008	12/16/2008
Benzene (µg/L)	110	120	185	175
Xylenes (Total) (µg/L)	21 JB	13 J	13.4 I	10.4
Isopropylbenzene (µg/L)	0.51 J	0.35 J	1.0 I	< 1.0
Methylene Chloride (µg/L)	ND	ND	18.8 V	13.4 I,V
1,2,4 -Trimethylbenzene (µg/L)	ND	ND	11.3	8.61

CEF-076-104D	5/29/2007	10/25/2007	10/9/2008	12/15/2008
Benzene (µg/L)	0.5 J	3.6	5.8	< 0.40
Sulfate (mg/L)	NA	519	472	450

CEF-076-116D	5/29/2007	10/25/2007	10/10/2008	12/16/2008
Benzene (µg/L)	45	57 J	80.1	68.9
Sulfate (mg/L)	NA	10,600	10,500	< 1.0

NOTES:

1) WELL LOCATIONS ARE APPROXIMATE AND BASED ON SURVEY DATA

2) MAP DRAWN USING GIS DATA FROM Tetra Tech NUS, Inc.

3) GCTL - GROUNDWATER CLEANUP TARGET LEVEL

4) NADSC - NATURAL ATTENUATION DEFAULT SOURCE CONCENTRATION

5) SEE REPORT TABLES FOR QUALIFIER DEFINITIONS

Solutions-IES
Industrial & Environmental Services
1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
TEL.: (919) 873-1060 FAX.: (919) 873-1074

CONTAMINANT CONCENTRATION MAP
NORTH FUEL FARM - NAS CECIL FIELD
JACKSONVILLE, FL
DECEMBER 2008

FIGURE:

3

T:\Project Files\Cecil Field\Cecil Field 2\CAD\NFFBasemap.dwg

FIGURE 4
Historical Benzene Concentrations in Shallow Wells

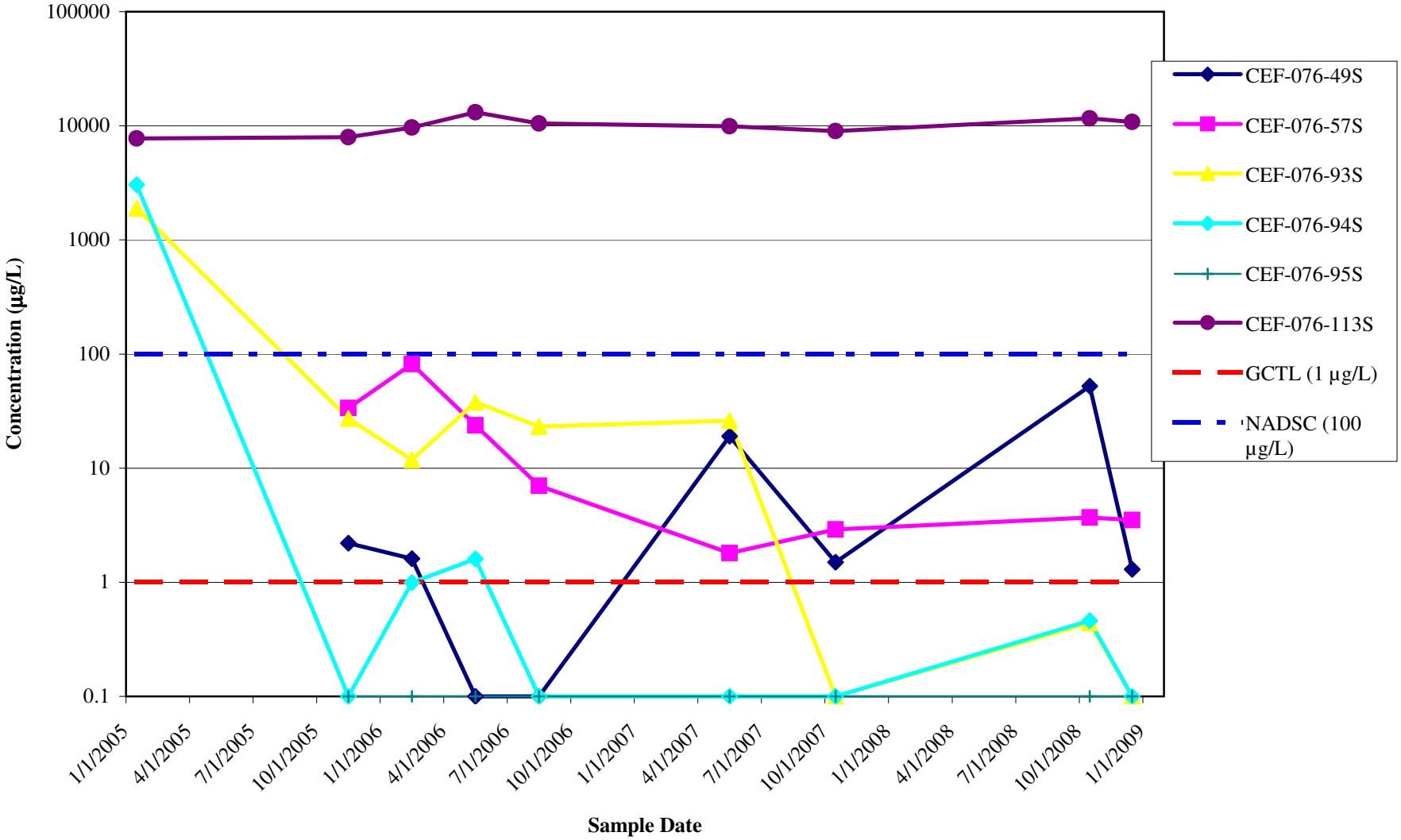


FIGURE 5
Historical Benzene Concentrations in Intermediate Wells

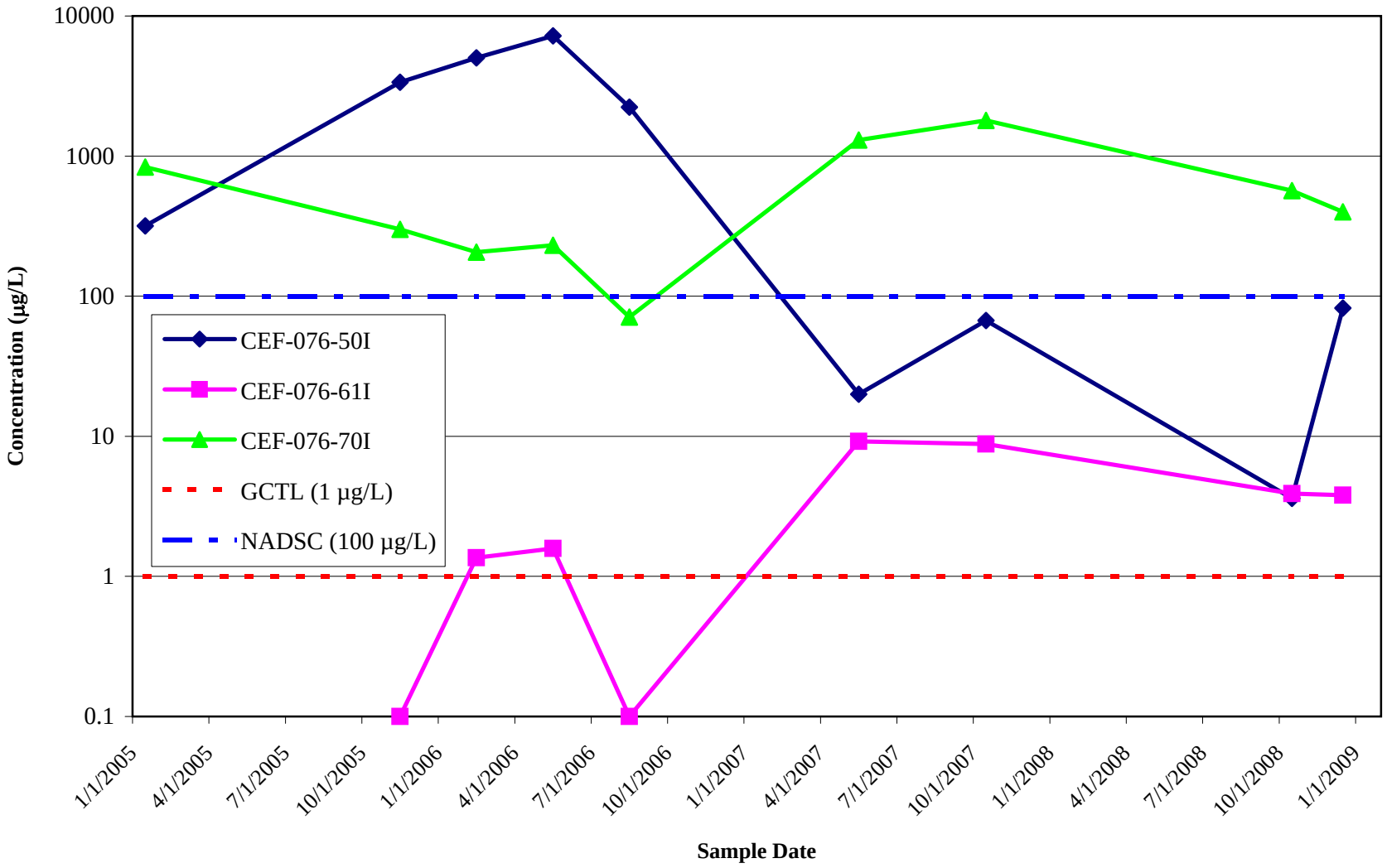


FIGURE 6
Historical Benzene Concentrations in Deep Wells

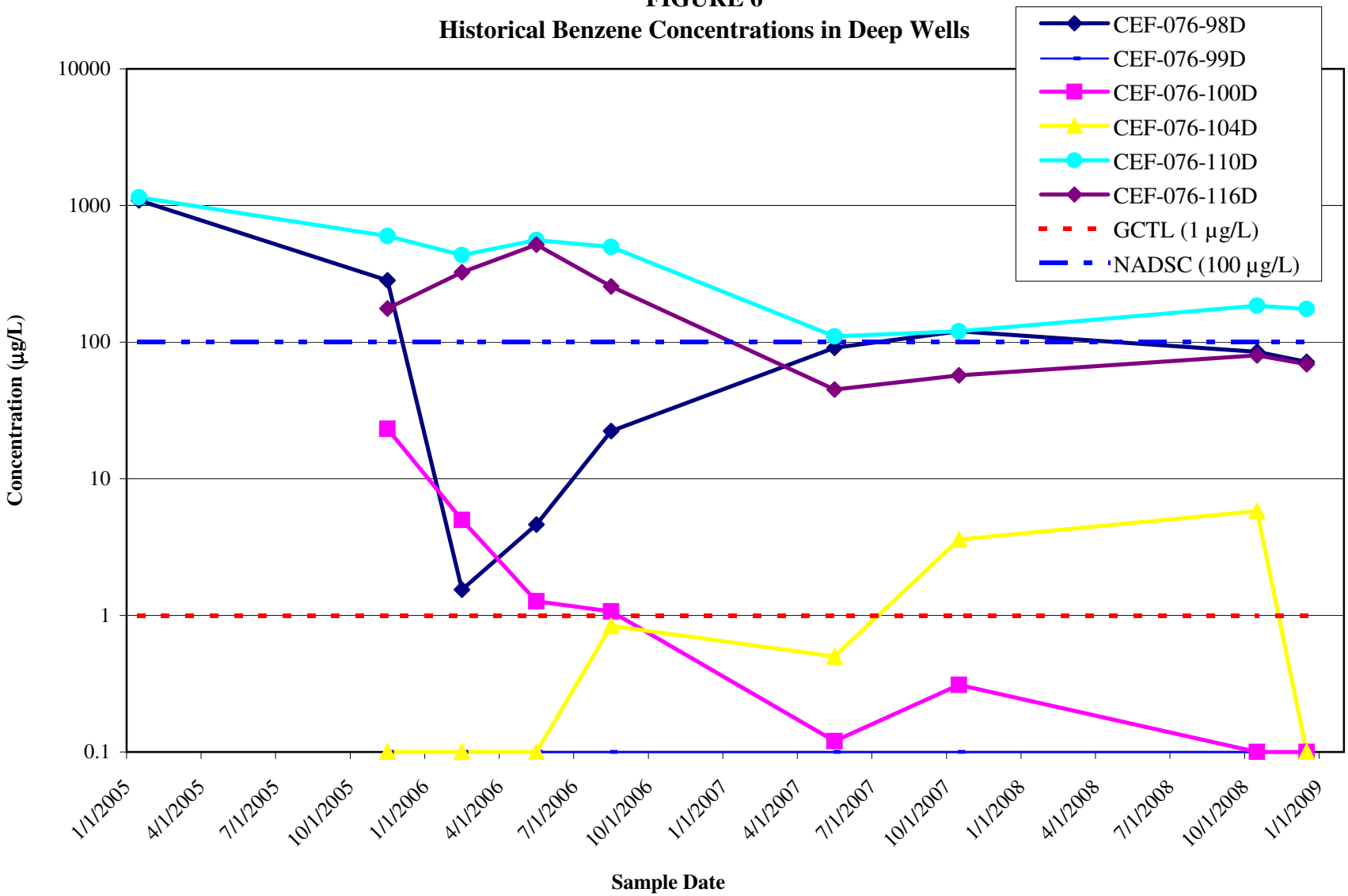


FIGURE 7
Historical Ethylbenzene Concentrations in Select Wells

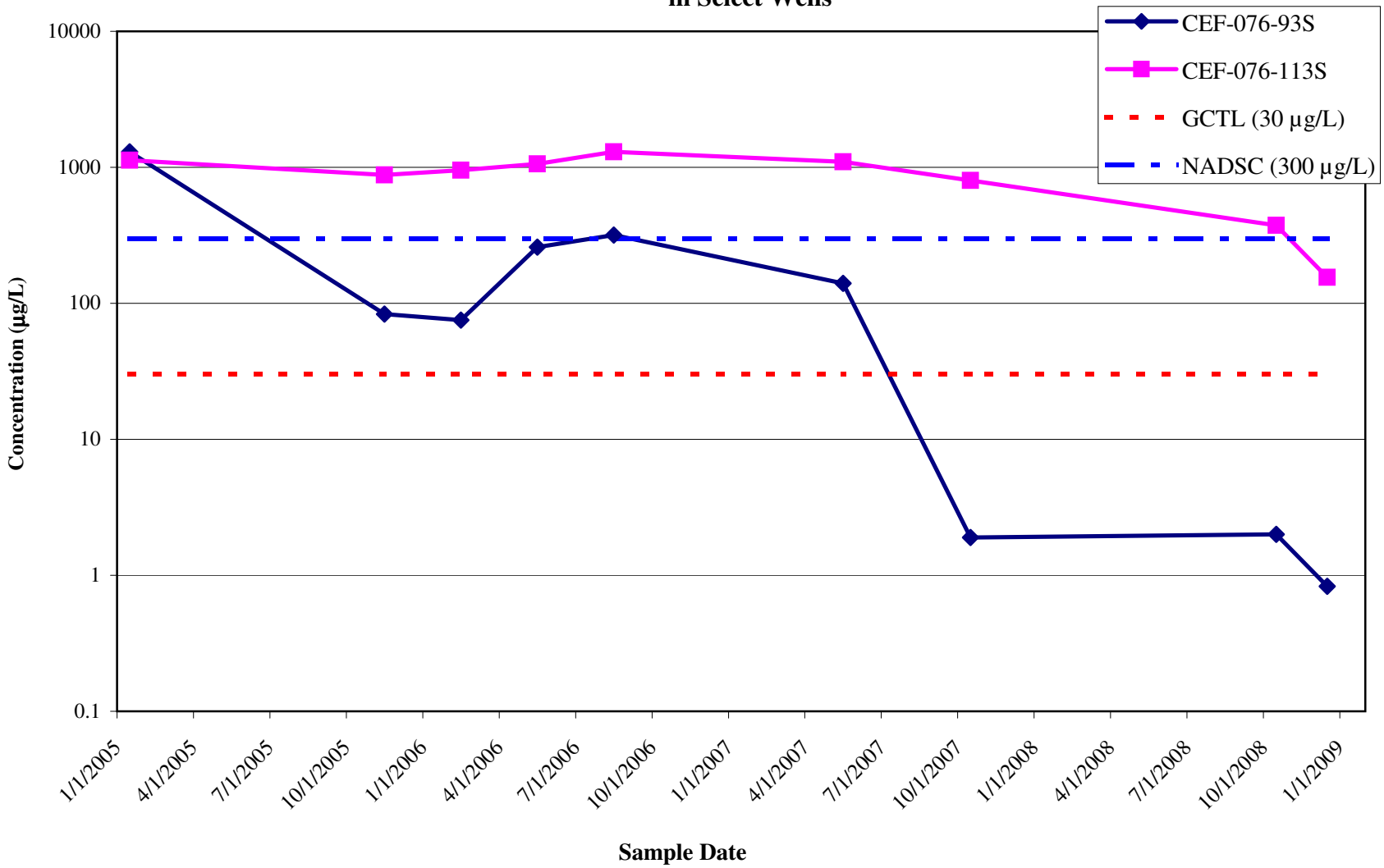


FIGURE 8
Historical Xylenes Concentrations in Select Wells

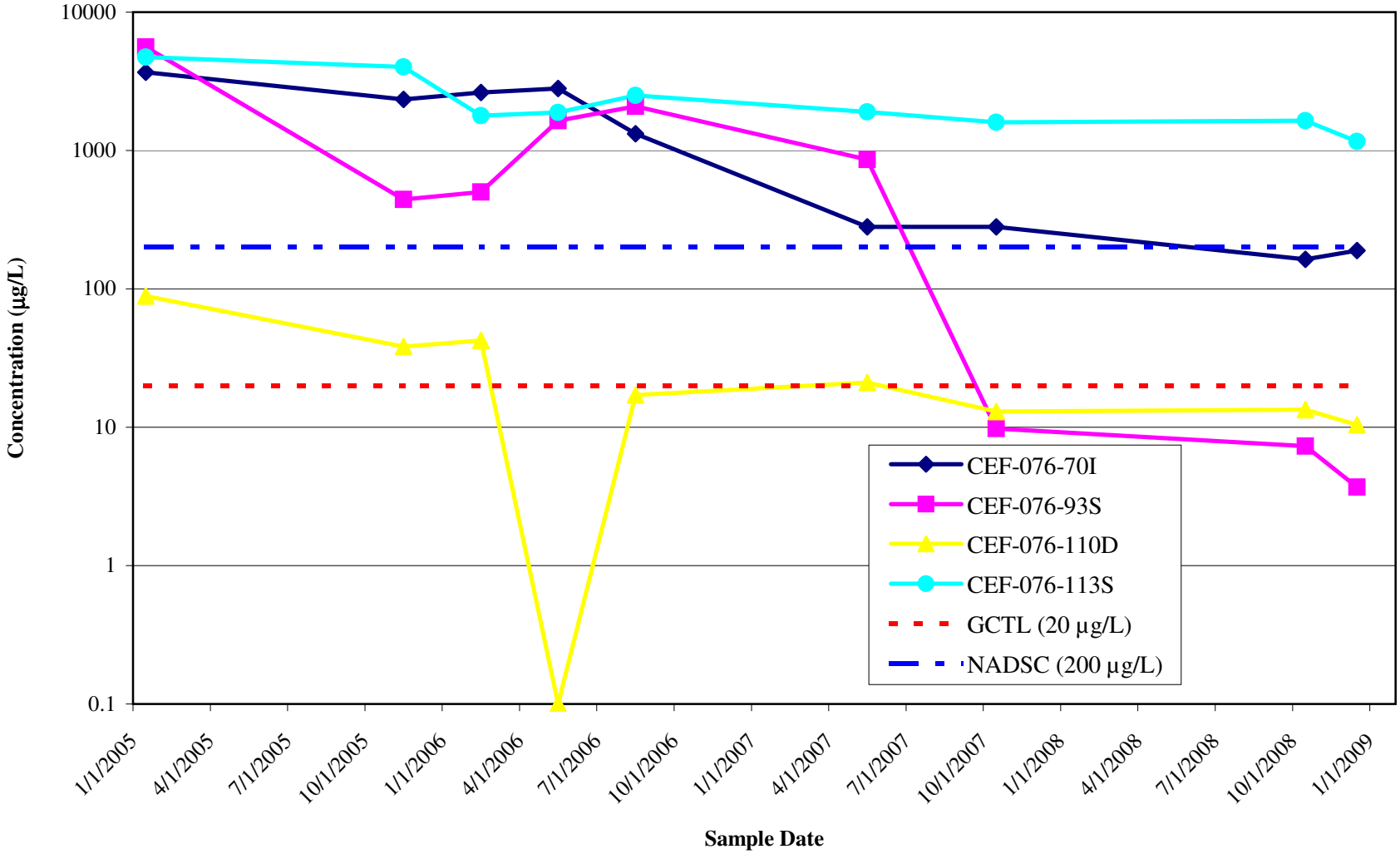


FIGURE 9
Historical Isopropylbenzene Concentrations in Select Wells

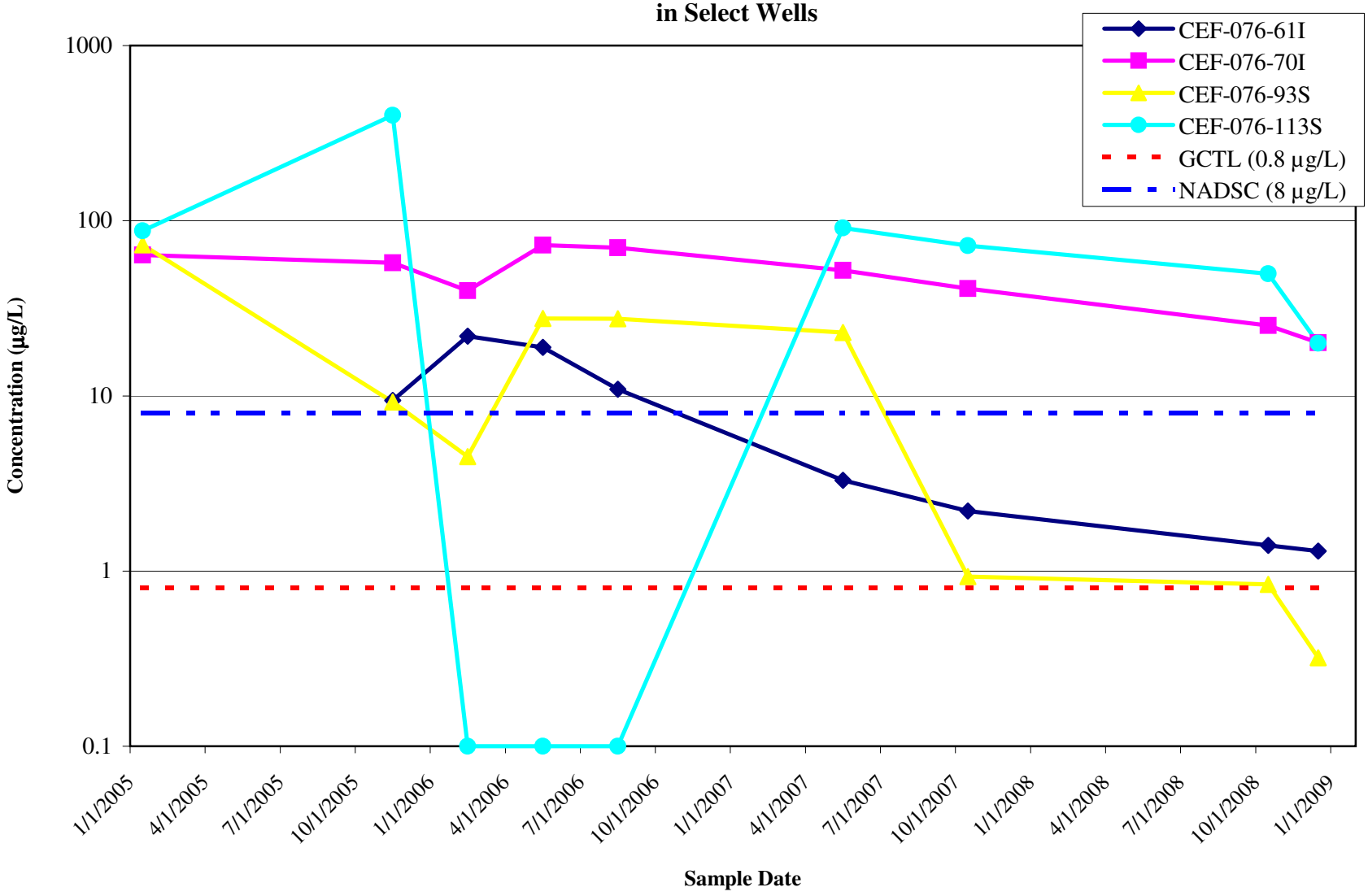
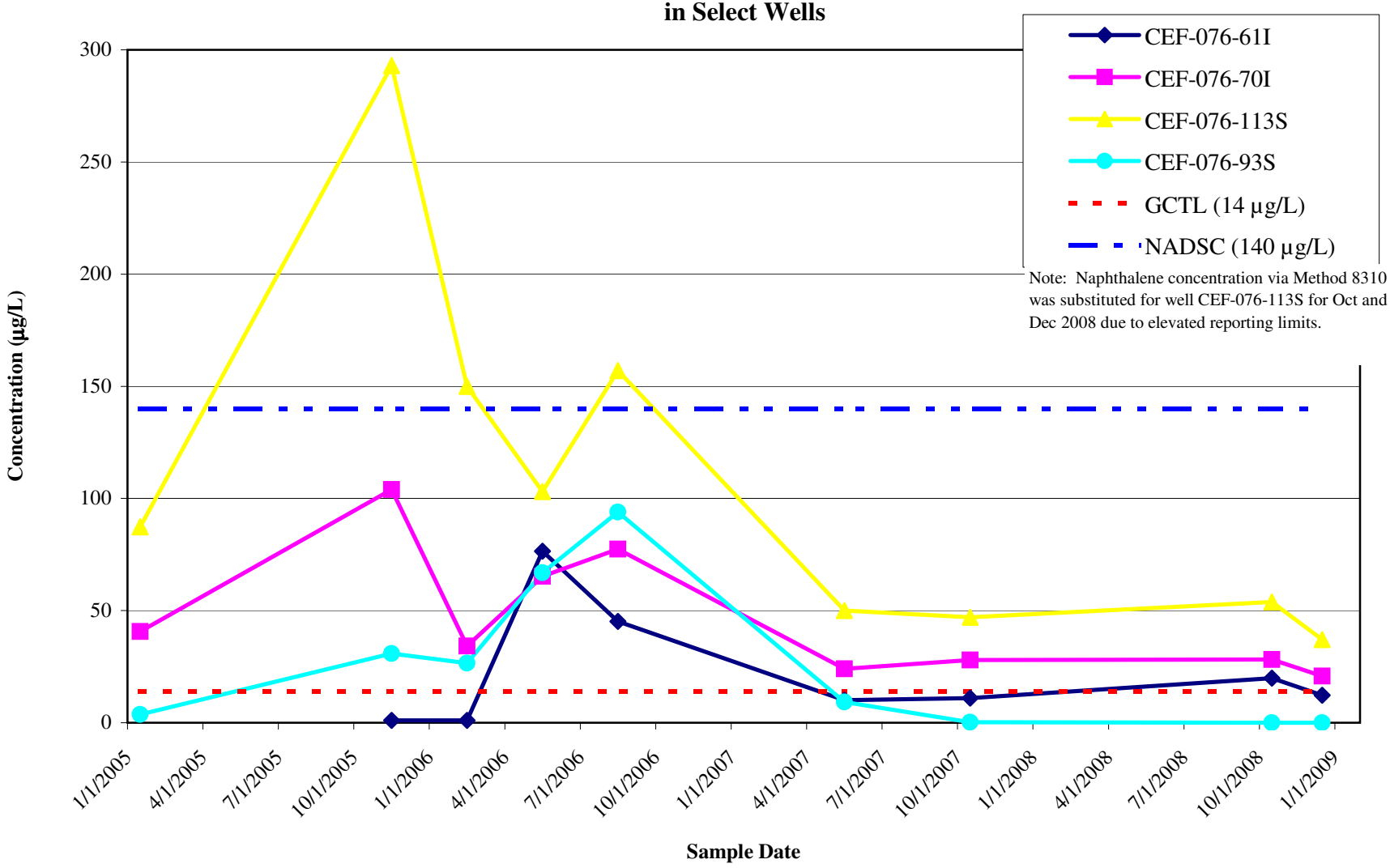


FIGURE 10
Historical Naphthalene (Method 8260B) Concentrations in Select Wells



Note: Naphthalene concentration via Method 8310 was substituted for well CEF-076-113S for Oct and Dec 2008 due to elevated reporting limits.

TABLES

TABLE 1
GROUNDWATER ELEVATIONS

North Fuel Farm
NAS Cecil Field
Jacksonville, Florida

Well ID	Date	Screen Interval (ft bgs)	Top of Casing Elevation (ft amsl)	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft amsl)
CEF-372-13R	7/29/2005	1.50 - 11.50	81.25	0.05	81.20
	11/18/2005			6.05	75.20
	5/15/2006			9.14	72.11
	8/15/2006			10.71	70.54
	10/22/2007			6.28	74.97
	10/8/2008			4.84	76.41
	12/15/2008			6.93	74.32
CEF-076-49S	7/29/2005	45 - 50	78.14	3.30	74.84
	11/18/2005			6.14	72.00
	5/16/2006			8.15	69.99
	8/17/2006			9.72	68.42
	10/22/2007			6.52	71.62
	10/8/2008			4.72	73.42
	12/15/2008			6.51	71.63
CEF-076-50I	7/29/2005	75 - 80	78.17	1.54	76.63
	11/18/2005			5.35	72.82
	5/15/2006			8.08	70.09
	10/22/2007			6.38	71.79
	10/8/2008			4.55	73.62
	12/15/2008			6.39	71.78
CEF-076-57S	7/29/2005	30 - 35	77.74	2.12	75.62
	11/18/2005			5.71	72.03
	5/17/2006			7.58	70.16
	8/17/2006			9.16	68.58
	10/22/2007			6.13	71.61
	10/8/2008			4.21	73.53
	12/15/2008			5.98	71.76
CEF-076-61I	7/29/2005	65 - 70	81.12	11.90	69.22
	11/18/2005			8.95	72.17
	5/17/2006			11.06	70.06
	8/16/2006			12.86	68.26
	10/22/2007			9.72	71.40
	10/8/2008			7.61	73.51
	12/15/2008			9.63	71.49
CEF-076-70I	7/29/2005	65 - 70	78.21	2.10	76.11
	11/18/2005			5.24	72.97
	5/11/2006			7.85	70.36
	8/15/2006			9.70	68.51
	10/22/2007			5.85	72.36
	10/8/2008			4.41	73.80
	12/15/2008			6.31	71.90
CEF-076-93S	7/29/2005	25 - 30	81.59	3.70	77.89
	11/18/2005			7.24	74.35
	5/10/2006			9.56	72.03
	8/14/2006			10.53	71.06
	10/22/2007			7.55	74.04
	10/8/2008			6.48	75.11
	12/15/2008			8.55	73.04
CEF-076-94S	7/29/2005	15-May	81.59	NM	NM
	11/18/2005			9.06	72.53
	5/10/2006			10.07	71.52
	8/14/2006			13.25	68.34
	10/22/2007			9.83	71.76
	10/8/2008			7.40	74.19
	12/15/2008			9.58	72.01
CEF-076-95S	7/29/2005	15-May	80.88	5.71	75.17
	11/18/2005			6.82	74.06
	5/16/2006			9.35	71.53
	8/16/2006			11.25	69.63
	10/22/2007			6.59	74.29
	10/8/2008			6.45	74.43
	12/15/2008			7.75	73.13
CEF-076-98D	7/29/2005	105 - 110	81.39	4.51	76.88
	11/18/2005			8.45	72.94
	5/11/2006			11.19	70.20
	8/15/2006			13.60	67.79
	10/22/2007			11.53	69.86
	10/8/2008			8.28	73.11
	12/15/2008			10.18	71.21
CEF-076-99D	7/29/2005	95 - 100	81.69	NM	NM
	11/18/2005			13.97	67.72
	5/17/2006			11.44	70.25
	8/16/2006			13.82	67.87
	10/22/2007			21.45	60.24
	10/8/2008			8.72	72.97
	12/15/2008			9.85	71.84
CEF-076-100D	7/29/2005	110 - 115	80.15	4.85	75.30
	11/18/2005			8.92	71.23
	5/16/2006			10.73	69.42
	8/17/2006			12.02	68.13
	10/22/2007			8.63	71.52
	10/8/2008			7.33	72.82
	12/15/2008			9.19	70.96
CEF-076-104D	7/29/2005	110 - 115	79.08	NM	NM
	11/18/2005			8.14	70.94
	5/15/2006			10.05	69.03
	8/17/2006			11.33	67.75
	10/22/2007			8.11	70.97
	10/8/2008			7.10	71.98
	12/15/2008			8.85	70.23
CEF-076-110D	7/29/2005	105 - 110	82.51	4.80	77.71
	11/18/2005			10.41	72.10
	5/11/2006			12.85	69.66
	8/14/2006			14.60	67.91
	10/22/2007			11.90	70.61
	10/8/2008			10.20	72.31
	12/15/2008			12.19	70.32
CEF-076-113S	7/29/2005	35 - 40	81.22	3.51	77.71
	11/18/2005			8.72	72.50
	5/10/2006			10.62	70.60
	8/14/2006			12.71	68.51
	10/22/2007			9.57	71.65
	10/8/2008			7.30	73.92
	12/15/2008			9.21	72.01
CEF-076-116D	10/22/2007	110 - 115	82.83	11.67	71.16
	10/8/2008			10.40	72.43
	12/15/2008			12.37	70.46

Notes:
ft bgs - feet below ground surface
ft amsl - feet above mean sea level
ft btoc - feet below top of casing
LNAPL - light non-aqueous phase liquid
NM - not measured

TABLE 2
FIELD AND NATURAL ATTENUATION PARAMETERS

North Fuel Farm
NAS Cecil Field
Jacksonville, Florida

Well ID	Sample Date	Field Parameters						Laboratory Natural Attenuation Parameters			
		pH (SU)	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Oxidation - Reduction Potential (mV)	Sulfate (mg/L)	Sulfide (mg/L)	Total Organic Carbon (mg/L)	Inorganic Carbon (mg/L)
GCTL (mg/L)		NE	NE	NE	NE	NE	NE	250	NE	NE	NE
NADSC (mg/L)		NE	NE	NE	NE	NE	NE	2500	NE	NE	NE
CEF-372-13R	10/23/2007	7.21	225	3.10	0.42	27.21	89.6	NA	NA	NA	NA
	10/9/2008	6.40	500	5.31	0.3	25.75	99.2	NA	NA	NA	NA
	12/16/2008	7.29	579	4	0.6	22.90	-5.2	NA	NA	NA	NA
CEF-076-49S	10/26/2007	2.04	3331	2.04	0.10	25.50	210	**2070**	ND	**17.8**	**3.2**
	10/9/2008	2.20	3061	3.66	0.81*	25.59	281.6	**2720**	<0.6	**17.5**	**14.1**
	12/15/2008	1.95	5172	4.7	4	24.41	445.0	**2640**	**0.86 I**	**15.5**	**11.5**
CEF-076-50I	10/26/2007	2.57	4567	4.52	0.09	27.37	121	NA	NA	NA	NA
	10/9/2008	2.48	4757	5.81	1.04*	27.08	184	NA	NA	NA	NA
	12/15/2008	2.21	7945	4.7	0.2	24.56	167.5	NA	NA	NA	NA
CEF-076-57S	10/26/2007	2.69	2244	1.51	0.03	24.23	173.1	**1430**	ND	**10.5**	**4**
	10/10/2008	1.14	1100	6.82	1	23.86	189.6	**894**	<0.6	**7**	**21.1**
	12/15/2008	2.46	1606	5	0.05	22.98	160.0	**867**	**0.70 I**	**5.0**	**6.5**
CEF-076-61I	10/26/2007	2.16	9734	23.30	-0.13	23.89	188	**15100**	ND	**77.4**	**3**
	10/10/2008	**	6555	16.20	0.8	25.24	238	**10400**	<0.60	**55.2**	<10
	12/16/2008	2.3	6626	152	1	22.87	212.6	<1.0	<0.60	**74.8**	**14.0**
CEF-076-70I	10/25/2007	3.29	4676	3.02	-0.34	25.90	5.7	NA	NA	NA	NA
	10/10/2008	2.78	5268	4.81	0.7	26.51	273.5	NA	NA	NA	NA
	12/15/2008	2.3	6930	4.20	0	25.56	104.2	NA	NA	NA	NA
CEF-076-93S	10/24/2007	5.73	275	88.1	0.31	26.17	258	NA	NA	NA	NA
	10/10/2008	6.12	270	51.3	1.44*	27.53	-178.9	NA	NA	NA	NA
	12/15/2008	5.9	310	28.2	0.2	24.35	3.2	NA	NA	NA	NA
CEF-076-94S	10/24/2007	2.50	2207	0.66	0.47	25.93	476	NA	NA	NA	NA
	10/10/2008	4.5	195	3.52	0.38*	27.50	77.9	NA	NA	NA	NA
	12/15/2008	6.22	375	40	0.6	26.16	8.2	NA	NA	NA	NA
CEF-076-95S	10/25/2007	6.12	151	88.80	1.78	25.10	56.4	**9.8**	ND	**11.7**	**6.8**
	10/9/2008	5.89	146	11.2	1.7*	23.91	-95	**8.2**	<0.6	**18.9**	**47.6**
	12/16/2008	5.41	51	15.4	0.2	22.75	149.6	**11.6**	**1.7**	**3.4**	**10.0**
CEF-076-98D	10/24/2007	3.67	7769	1.68	0.53	24.95	193	NA	NA	NA	NA
	10/9/2008	3.23	2568	7.07	0.8	25.77	132.1	NA	NA	NA	NA
	12/16/2008	3.75	10528	2	0.2	25.00	52.1	NA	NA	NA	NA
CEF-076-99D	10/24/2007	6.56	3337	3.11	0.59	23.49	299	**1860**	ND	**8.4**	**14.4**
	10/9/2008	6.04	707	5.49	1.09*	27.28	-27.2	**1770**	<0.6	**11**	**86**
	12/16/2008	6.95	3990	2	0.2	26.53	-8.8	**1880**	**0.91 I**	**12.0**	**80.5**
CEF-076-100D	10/25/2007	5.98	2877	1.64	0.53	25.56	-61.5	**1630**	ND	**6**	**15.7**
	10/9/2008	5.50	3072	5.79	0	24.59	-47.5	**2600**	<0.6	**9.1**	**47.4**
	12/16/2008	6.07	1968	5.4	0.1	22.94	69.3	<1.0	**2.9**	**5.2**	**35.5**
CEF-076-104D	10/25/2007	5.27	1294	1.68	0.72	21.24	87.3	**519**	ND	**2.9**	**10.7**
	10/9/2008	**	932	2.05	0.9	23.67	-271.1	**472**	<0.6	**3**	**32.6**
	12/15/2008	5.40	1605	3.5	0.1	22.62	111.3	**450**	**2.0**	**2.8**	**15.5**
CEF-076-110D	10/23/2007	2.32	6444	5.75	0.26	25.49	390	NA	NA	NA	NA
	10/9/2008	2.29	7166	**	1	24.55	322.8	NA	NA	NA	NA
	12/16/2008	2.8	5068	10.8	1.5 *	25.50	292.2	NA	NA	NA	NA
CEF-076-113S	10/25/2007	3.11	2499	2.50	0.23	25.95	45	NA	NA	NA	NA
	10/10/2008	3.11	1952	7.62	1	27.23	18.9	NA	NA	NA	NA
	12/16/2008	3.0	1481	12.1	0	24.54	92.6	NA	NA	NA	NA
CEF-076-116D	10/25/2007	2.94	9815	1.56	0.10	22.94	121.4	**10600**	**1.1 J**	**25.1**	**3.2 J**
	10/10/2008	3.37	7691	9.3	0.4	22.45	155.8	**10500**	<0.6	**48.4**	**6.5**
	12/16/2008	3.17	5795	3.9	0.4	20.91	202.6	<1.0	**1.6**	**45.7**	**5.3**

NOTES: GCTL - Groundwater Cleanup Target Level
NADSC - Natural Attenuation Default Source Concentration
SU - Standard Units
µS/cm - microsiemens per centimeter
NTU - nephelometric turbidity units
mg/L - milligrams per liter
°C - degrees Celsius
mV - millivolts
NE - not established
NA - not analyzed
ND - concentration not detected above the method detection limit, limit not available
J - concentration estimated below the reporting limit
* - DO readings from field meter, not Chemetrics Kits
** - Data not available due to meter malfunction
Exceeds the GCTL
Exceeds the GCTL and NADSC

TABLE 3
LABORATORY ANALYTICAL RESULTS

North Fuel Farm
NAS Cecil Field
Jacksonville, Florida

Well ID	Sample Date	VOLATILE ORGANIC COMPOUNDS (µg/L)											POLYCYCLIC AROMATIC HYDROCARBONS (µg/L)				TRPH (C8 - C40) (µg/L)
		Benzene	Ethylbenzene	Toluene	Xylenes, total	Carbon disulfide	Methyl-t-butyl-Ether	Isopropylbenzene (Cumene)	Methyl ethyl ketone (2-butanone)	Methylene chloride	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene by Method 8260	Naphthalene by Method 8310	1-Methylnaphthalene	2-Methylnaphthalene	
GCTL (µg/L)		1	30	40	20	700	50	0.8	4200	5	10	10	14	14	28	28	5000
NADSC (µg/L)		100	300	400	200	7000	500	8	42000	50	100	100	140	140	280	280	50000
CEF-372-13R	1/24/2005	ND	**18.3**	ND	**7.18**	**1.19 J**	ND	**8.22**	ND	ND	ND	ND	**122 J**	ND	ND	ND	**8480 JB**
	11/18/2005	ND	ND	ND	ND	ND	ND	**1.92 J**	ND	ND	ND	ND	ND	ND	ND	ND	**436 JB**
	2/13/2006	ND	ND	ND	ND	ND	ND	ND	ND	**0.86 JB**	ND	ND	ND	ND	ND	ND	**491 JB**
	5/15/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**901**
	8/15/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**190 JB**
	5/22/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/23/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/9/2008	<0.40	<0.43	<0.35	<0.78	<0.40	<0.26	<0.20	<2.0	<1.0	<0.22	<0.20	<1	<0.96	<0.48	<0.48	<160
	12/16/2008	<0.40	<0.43	<0.35	<0.78	<0.40	<0.26	<0.20	<2.0	<1.0	<0.22	<0.20	<1	<0.95	<0.48	<0.48	**380**
CEF-076-49S	11/17/2005	**2.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	2/16/2006	**1.61**	ND	ND	**8.23**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	5/16/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	8/17/2006	ND	ND	ND	**8.17**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	5/29/2007	**19**	**0.19 J**	ND	**2.9**	ND	ND	**0.5 J**	ND	ND	ND	ND	ND	ND	ND	ND	**170 J**
	10/26/2007	**1.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.03 J**	**0.11 J**	ND
	10/9/2008	**52.3**	**0.67 I**	<0.35	**12.5**	<0.40	<0.26	<0.20	<2.0	<1.0	**1.6 I**	**0.45 I**	<1.0	<0.96	<0.48	<0.48	**215**
	12/15/2008	**1.3**	<0.43	<0.35	**1.94 I**	<0.40	<0.26	<0.20	<2.0	<1.0	**0.22 I**	<0.20	<1.0	<0.96	<0.48	<0.48	**196 I**
CEF-076-50I	1/25/2005	**318**	ND	ND	**1910**	ND	ND	ND	ND	ND	ND	ND	**141 J**	ND	ND	ND	**3310 JB**
	11/21/2005	**3360 J**	ND	ND	**2400**	ND	ND	ND	ND	ND	ND	ND	**54 J**	ND	ND	ND	**3080 JB**
	2/14/2006	**5020**	**71.2 J**	ND	**586**	ND	ND	ND	ND	**277 JB**	ND	ND	**21.2 J**	ND	ND	ND	**1840 JB**
	5/15/2006	**7200**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**12.9 J**	ND	ND	ND	**1050**
	8/15/2006	**2230 J**	**15.8 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.96 J**	ND	ND	ND	**183 JB**
	5/29/2007	**20**	**0.28 J**	ND	4.8	ND	ND	**0.31 J**	ND	ND	ND	ND	**0.18 JB**	ND	ND	ND	**190 J**
	10/26/2007	**67**	**0.57 J**	**0.16 J**	**6.6 J**	ND	ND	**0.15 J**	ND	ND	ND	ND	**0.35 J**	ND	ND	ND	ND
	10/9/2008	**3.6**	<0.43	<0.35	**2.7 I**	<0.40	<0.26	<0.20	<2.0	<1.0	**0.32 I**	<0.20	<1.0	<0.95	<0.48	<0.48	**237**
	12/15/2008	**82.4**	**0.80 I**	<0.35	**18.2**	<0.40	<0.26	<0.20	<2.0	<1.0	**1.6 I**	**0.43 I**	<1.0	<0.96	<0.48	<0.48	**259**
CEF-076-57S	11/17/2005	**33.6**	**11.7**	ND	ND	ND	ND	**3.46 J**	ND	ND	ND	ND	ND	ND	ND	ND	NA
	2/15/2006	**81.8**	**6.2**	ND	ND	ND	ND	**2.81 J**	ND	ND	ND	ND	ND	ND	ND	ND	NA
	5/17/2006	**23.7**	**2.01 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	8/17/2006	**7.02**	**1.72 J**	ND	**3.21 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	5/23/2007	**1.8**	**0.31 J**	ND	**1.5**	ND	ND	**0.28 J**	ND	ND	ND	ND	**0.16 JB**	ND	ND	ND	**240 J**
	10/26/2007	**2.9**	**0.36 J**	ND	**2.2 J**	ND	ND	**0.27 J**	ND	ND	ND	ND	**0.18 J**	ND	ND	ND	ND
	10/10/2008	**3.7**	**0.51 I**	<0.35	**2.19 I**	<0.40	<0.26	<0.20	<2.0	<1.0	<0.22	**0.27 I**	<1.0	<0.96	<0.48	<0.48	**255**
	12/15/2008	**3.5**	**0.69 I**	<0.35	**1.5**	<0.40	<0.26	**0.27 I**	<2.0	<1.0	**0.40 I**	**0.28 I**	<1.0	<0.96	<0.48	<0.48	**206**
CEF-076-61I	11/17/2005	ND	**36.9 J**	ND	**73.8**	ND	ND	**9.41 J**	**3 J**	ND	ND	ND	ND	ND	ND	ND	NA
	2/15/2006	**1.36**	**22.8**	ND	**24.2**	**12.7**	ND	**21.9**	**2.07 J**	ND	ND	ND	ND	ND	ND	ND	NA
	5/17/2006	**1.58**	**10.9**	ND	**18**	**7.53**	ND	**18.9**	ND	ND	ND	ND	**76.5 J**	ND	**24.2 J**	ND	NA
	8/16/2006	ND	**3.06 J**	ND	**5.2**	ND	ND	**10.9 J**	ND	**3.02 JB**	ND	ND	**45.2 J**	ND	**11 J**	ND	NA
	5/22/2007	**9.2**	**1.2**	ND	**4.8**	ND	ND	**3.3**	**21**	ND	ND	ND	**10**	ND	**1.4**	**2.2**	**1100**
	10/26/2007	**8.8**	**1.2**	ND	**4.8 J**	**0.42 J**	ND	**2.2**	**19**	ND	ND	ND	**11 J**	ND	**1.8 J**	**2.6 J**	**760**
	10/10/2008	**3.9**	**1.7**	<0.35	**6.4**	<0.40	<0.26	**1.4**	<2.0	<1.0	**21.4**	**7**	**19.9**	**8.4**	**1.3 I**	**1.8 I**	**445**
	12/16/2008	**3.8**	**1.5**	<0.35	**6.2**	<0.40	<0.26	**1.3**	<2.0	<1.0	**15.6**	**5.3**	**12.2**	**6.3**	**0.93 I**	**1.3 I**	**459**
CEF-076-70I	1/25/2005	**834**	**50.3**	**11.1 J**	**3680**	ND	ND	**63.7**	ND	ND	ND	ND	**40.7 J**	ND	ND	ND	**9210 JB**
	11/21/2005	**300**	ND	ND	**2340**	ND	ND	**57.5 JB**	**35 JB**	ND	ND	ND	**104 J**	ND	ND	ND	**496 B**
	2/14/2006	**206**	ND	ND	**2630**	ND	ND	**39.9 J**	ND	ND	ND	ND	**34.2**	ND	ND	ND	**3780 JB**
	5/11/2006	**231**	ND	ND	**2810**	ND	ND	**72.6 J**	ND	ND	ND	ND	**65.3 J**	ND	ND	ND	**5170**
	8/15/2006	**70.8**	ND	ND	**1320**	ND	ND	**70.1**	ND	**10.4 JB**	ND	ND	**77.4 J**	ND	ND	ND	**1640 JB**
	5/23/2007	**1300**	**6.6 J**	ND	**280**	ND	ND	**52**	ND	ND	ND	ND	**24 JB**	ND	**0.12 J**	ND	**1700 J**
	10/25/2007	**1800**	**7.1 J**	ND	**280 J**	ND	ND	**41**	ND	**14 J**	ND	ND	**28**	ND	**0.2**	**0.16**	**1600**
	10/9/2008	**566**	**9.8**	<1.8	**163.4**	<2.0	<1.3	**25.2**	<10	**31.8 V**	**113**	**39**	**28.2**	**17.1**	<0.48	<0.48	**659**
	12/15/2008	**400**	**10.1**	<3.5	**189.4**	<4.0	<2.6	**20.1**	<20	**38.4 I**	**106**	**31.6**	**20.8 I**	**24.7**	<0.49	<0.49	**655**
CEF-076-93S	1/24/2005	**1890**	**1300**	**7800**	**5610**	ND	ND	**72.8 J**	ND	ND	ND	ND	**3.73 J**	ND	ND	ND	**12100 JB**
	11/18/2005	**27.2**	**83.5**	**235**	**443**	ND	ND	**9.22 J**	ND	**7.85 JB**	ND	ND	**30.8 J**	ND	ND	ND	**1620 JB**
	2/13/2006	**11.8**	**75.4**	**193**	**502**	ND	ND	**4.5 J**	ND	ND	ND	ND	**26.6 J**	ND	**8.96 J**	**6.46 J**	**112 JB**
	5/10/2006	**37.9**	**259**	**607**	**1640**	ND	ND	**27.7 J**	ND	ND	ND	ND	**66.9 J**	ND	**18**	ND	**7790 J**
	8/14/2006	**23.1**	**318**	**515**	**2090**	ND	ND	**27.6**	ND	**14 JB**	ND	ND	**93.9 J**	ND	**31.9**	ND	**4520 JB**
	5/15/2007	**26**	**140**	**320 JB**	**860**	**0.39 J**	ND	**23**	ND	**2.3 JB**	ND	ND	**9.2 JB**	ND	**6.1**	**6.8**	**5300**
	10/24/2007	ND	**1.9**	**1.4 JB**	**9.8 J**	ND	ND	**0.93**	ND	ND	ND	ND	**0.23**	ND	**0.17**	**0.23**	**160 J**
	10/10/2008	**0.44 I**	**2.0**	**1.7**	**7.3**	<0.40	<0.26	**0.84 I**	<2.0	<1.0	**1.8 I**	**0.71 I**	<1.0	<0.96	**0.49 I**	**1.1 I**	**243**
	12/15/2008	<0.40	**0.83 I**	**0.80 I**	**3.7**	<0.40	<0.26	**0.32 I**	<2.0	<1.0	**0.37 I**	**0.23 I**	<1.0	**1.1 I**	**0.65**	**1.6 I**	**244**
CEF-076-94S	1/25/2005	**3040**	**1310**	**3800**	**4850**	ND	ND	**86.5 J**	ND	ND	ND	ND	**193 J**	ND	ND	ND	**15500 JB**
	11/18/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.1**	ND	ND	ND	**404 JB**
	2/13/2006	**0.993 J**	ND	ND	ND	ND	ND	ND	**1.47 J**	**2.98 JB**	ND	ND	ND	ND	ND	ND	**200 JB**
	5/10/2006	**1.6**	ND	ND	ND	ND	ND	ND	**1.57 J**	ND	ND	ND	**0.696**	ND	ND	ND	**304**
	8/14/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**97 JB**
	5/15/2007	ND	ND	ND	ND	ND	ND	ND	ND	**0.5 JB**	ND	ND	ND	ND	ND	ND	ND
	10/24/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/10/2008	**0.46 I**	<0.43	<0.35	<0.78	<0.40	<0.26	<0.20	<2.0	<1.0	<0.22	<0.20	<1	<0.96	<0.48	<0.48	**211 I**
	12/15/2008	<0.40	<0.43	<0.35	<0.78	<0.40	<0.26	<0.20	<2.0	<1.0	<0.22	<0.20	<1	<0.96	<0.48	<0.48	**215 I**
CEF-076-95S	11/16/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	2/14/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	5/16/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	8/16/2006	ND	ND	ND	ND	ND	ND	ND	ND	**2.54 JB**	ND	ND	ND	ND	ND	ND	NA
	5/25/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/25/2007	ND	ND	**0.61 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**180 J**
	10/9/2008	<0.40	<0.43	**33.8**	<0.78	<0.40	<0.26	<0.20	<2.0	<0.61	<0.22	<0.20	<1.0	<0.96	<0.48	<0.48	**627**
	12/16/2008	<0.40	<0.43	<0.35	<0.78	<0.40	<0.26	<0.20	<2.0	<1.0	<0.22	<0.20	<1.0	<0.95	<0.48	<0.48	<170
CEF-076-98D	1/25/2005	**1090 J**	**8.33 J**	ND	**62.3**	ND	ND	ND	ND	ND	ND	ND	**20.3**	ND	ND	ND	**811 B**
	11/21/2005	**283**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5.06**	ND	ND	ND	**9340 B**
	2/14/2006	**1.54**	ND	ND	ND	ND	ND	ND	ND	**2.41 JB**	ND	ND	**5.07**	ND	ND	ND	**82.8 JB**
	5/11/2006	**4.62**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**312 J**
	8/15/2006	**22.3**	ND	ND	**6.82**	**2.95 J**	ND	ND	ND	**1.05 JB**	ND	ND	**2.18**	ND	ND	ND	**137 JB**
	5/25/2007	**91**	**0.27 J**	ND	**7.2**	ND	ND	**0.32 J**	ND	ND	ND	ND	**1.5**	ND	**0.02 J**	**0.037 J**	**330 J**
	10/24/2007	**120**	**0.38 J**	**0.22 JB**	**8.8 J**	ND	ND	**0.24 J**	ND	ND	ND	ND	**2.1**	ND	ND	**0.046 J**	**160 J**
	10/9/2008	**85**	**0.67 I**	<0.35	**5.8 I**	<0.40	<0.26	**0.25 I**	<2.0	<1.0	**2.4**	**0.75 I**	**2.6 I**	**1.7 I**	<0.48	<0.48	**231 I**
	12/16/2008	**71.7**	**0.94 I**	<0.35	**8.7**	<0.40	<0.26	**0.28 I**	<2.0	<1.0	**2.7**	**0.78 I**	**1.8 I**	**2.3**	<0.48	<0.48	**239 I**
CEF-076-99D	11/16/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	2/15/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	5/17/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	8/16/2006	ND	ND	ND	ND	ND	ND	ND	ND	**2.62 JB**	ND	ND	ND	ND	ND	ND	NA
	5/22/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/24/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/9/2008	<0.40	<0.43	<0.35	<0.78	<0.40	<0.26	<0.20	<2.0	<1.0	<0.22	<0.20	<1.0	<0.96	<0.48	<0.48	**190 I**
	12/16/2008	<0.40	<0.43	<0.35	<0.78	<0.40	<0.26	<0.20	<2.0	<1.0	<0.22	<0.20	<1.0	<0.95	<0.48	<0.48	**182 I**

TABLE 3
LABORATORY ANALYTICAL RESULTS

North Fuel Farm
NAS Cecil Field
Jacksonville, Florida

Well ID	Sample Date	VOLATILE ORGANIC COMPOUNDS (µg/L)											POLYCYCLIC AROMATIC HYDROCARBONS (µg/L)				TRPH (C8 - C40) (µg/L)
		Benzene	Ethylbenzene	Toluene	Xylenes, total	Carbon disulfide	Methyl-t-butyl-Ether	Isopropylbenzene (Cumene)	Methyl ethyl ketone (2-butanone)	Methylene chloride	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene by Method 8260	Naphthalene by Method 8310	1-Methylnaphthalene	2-Methylnaphthalene	
GCTL (µg/L)		1	30	40	20	700	50	0.8	4200	5	10	10	14	14	28	28	5000
NADSC (µg/L)		100	300	400	200	7000	500	8	42000	50	100	100	140	140	280	280	50000
CEF-076-100D	11/17/2005	**23.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	2/16/2006	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	5/16/2006	**1.27**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	8/17/2006	**1.07**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	5/29/2007	**0.12 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.047 JB**	ND	ND	**0.019 JB**	ND
	10/25/2007	**0.31 J**	ND	ND	ND	**0.36 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/9/2008	<0.40	<0.43	<0.35	<0.78	<0.40	<0.26	<0.20	<2.0	<0.61	<0.22	<0.20	<1.0	<0.96	<0.48	<0.48	<160
	12/16/2008	<0.40	<0.43	<0.35	<0.78	<0.40	<0.26	<0.20	<2.0	<1.0	<0.22	<0.20	<1.0	<0.95	<0.48	<0.48	<160
CEF-076-104D	11/16/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	2/15/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	5/15/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	8/17/2006	**0.838 J**	ND	ND	ND	ND	ND	ND	ND	**0.948 J**	ND	ND	ND	ND	ND	ND	NA
	5/29/2007	**0.5 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/25/2007	**3.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/9/2008	**5.8**	<0.43	<0.35	<0.78	<0.40	<0.26	<0.20	<2.0	<0.61	<0.22	<0.20	<1	<0.96	<0.48	<0.48	<160
	12/15/2008	<0.40	<0.43	<0.35	<0.78	<0.40	<0.26	<0.20	<2.0	<0.61	<0.22	<0.20	<1	<0.96	<0.48	<0.48	<160
CEF-076-110D	1/25/2005	**1150**	ND	ND	**88.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**499 JB**
	11/21/2005	**597**	ND	ND	**38.2 J**	**42.6 J**	ND	**19.2 JB**	ND	ND	ND	ND	**2.57 J**	ND	ND	ND	**2700 B**
	2/14/2006	**434**	ND	ND	**42.3 J**	ND	ND	ND	ND	**28.6 JB**	ND	ND	**2.55 J**	ND	ND	ND	**309 JB**
	5/11/2006	**559**	ND	ND	ND	**125**	ND	ND	ND	ND	ND	ND	**3.31**	ND	ND	ND	**370**
	8/14/2006	**497**	ND	ND	**17.1 J**	**15.4 J**	ND	ND	ND	**9.25 JB**	ND	ND	**3.33**	ND	ND	ND	**430 JB**
	5/30/2007	**110**	**0.99 J**	ND	**21 JB**	ND	ND	**0.51 J**	**3.4 J**	ND	ND	ND	**1.6**	ND	ND	ND	**350 J**
	10/23/2007	**120**	**0.55 J**	ND	**13 J**	ND	ND	**0.35 J**	**3.5 J**	ND	ND	ND	**1 JB**	ND	ND	ND	**190 J**
	10/9/2008	**185**	**1.9 I**	<0.70	**13.4 I**	<0.80	<0.52	**1.0 I**	<4.0	**18.8 V**	**11.3**	**3.2 I**	**6.8 I**	**5.6**	<0.48	<0.48	**347**
	12/16/2008	**175**	<2.2	<1.8	**10.4**	<2.0	<1.3	<1.0	<10	**13.4 I,V**	**8.6 I**	**2.5 I**	<5.0	**4.5**	<0.50	<0.50	**287**
CEF-076-113S	1/25/2005	**7730**	**1130**	**85.3 J**	**4740**	ND	ND	**87.7 J**	ND	ND	ND	ND	**87.3 J**	ND	ND	ND	**12700 JB**
	11/18/2005	**7940**	**878 J**	ND	**4010**	ND	ND	**400 J**	ND	ND	ND	ND	**293 J**	ND	ND	ND	**6090 JB**
	2/13/2006	**9680**	**953 J**	ND	**1790**	ND	ND	ND	ND	**315 JB**	ND	ND	**150 J**	ND	**38.6 J**	**26.2 J**	**3510 JB**
	5/10/2006	**13100**	**1060**	ND	**1880**	ND	ND	ND	ND	ND	ND	ND	**103 J**	ND	**23.1 J**	ND	**7290**
	8/14/2006	**10500**	**1300**	ND	**2500**	ND	ND	ND	ND	**195 JB**	ND	ND	**157 J**	ND	**27.1 J**	ND	**4060 JB**
	5/24/2007	**9900**	**1100**	ND	**1900**	ND	ND	**91 J**	ND	ND	ND	ND	**50 JB**	ND	**4**	**5.8**	**5400**
	10/25/2007	**9000**	**800**	ND	**1600 J**	ND	ND	**72**	ND	**37 J**	ND	ND	**47**	ND	**2.7**	**3.6**	**5600**
	10/10/2008	**11600**	**374**	<70	**1643**	<80	<52	**49.9 I**	<400	<200	**206 I**	**77.7**	<200	**53.8**	**1.6 I**	**4.3**	**2120**
	12/16/2008	**10800**	**155 I**	<70	**1163**	<80	<52	<40	<400	**509 I,V**	**138 I**	**47.2 I**	<200	**37.1**	**1.2 I**	**1.8 I**	**1970**
CEF-076-116D	11/17/2005	**176**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	2/15/2006	**324**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	5/15/2006	**517**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	8/17/2006	**256**	ND	ND	ND	**16.7**	ND	ND	**1.75 J**	ND	ND	ND	ND	ND	ND	ND	NA
	5/29/2007	**45**	**0.17 J**	ND	**1.8**	**150**	ND	**0.15 J**	**23 JB**	ND	ND	ND	**0.061 JB**	ND	**0.029 JB**	**0.049JB**	**170 J**
	10/25/2007	**57 J**	ND	ND	**2.8 J**	**180**	ND	**0.3 J**	**21**	ND	ND	ND	**0.12 J**	ND	ND	ND	ND
	10/10/2008	**80.1**	**1.2 I**	<0.70	**1.0 I**	**53.6**	<0.52	<0.40	**18.5**	<2.0	**2.6 I**	<0.40	<2.0	<0.96	<0.48	<0.48	**185 I**
	12/16/2008	**68.9**	**0.49 I**	<0.35	**3.2 I**	**63.2**	<0.26	**0.36 I**	**24.9**	<1.0	**3.7**	**0.39 I**	<1.0	<0.95	<0.48	<0.48	**231 I**

NOTES:
µg/L - Micrograms per liter
GCTL - Groundwater Cleanup Target Level
NADSC - Natural Attenuation Default Source Concentrations
Bold indicates values above the method detection limit.
Shading indicates: Exceeds the GCTL
Exceeds both the GCTL and NADSC
J and I - Estimated Concentration
JB - Analyte was detected in the associated method and/or calibration blank
ND - No Data Available
V - Analyte detected in associated method blank, suspected lab contaminant
A - Indicates associated BS recovery outside control limits

APPENDIX A

GROUNDWATER SAMPLING LOGS

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: North Fuel Farm-Cecil Field	SITE LOCATION: Jacksonville, FL
WELL NO: CEF-076- 61 I	SAMPLE ID: CEF-076-61 I — DATE: 12/16/08

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.61	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 11:11	PURGING ENDED AT: 11:38	TOTAL VOLUME PURGED (gallons): 0.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	OR
11:21		0.3	120 mL/min	9.92	2.3	22.94	6544	2.85	482	Lt brown	none	69.
11:26		0.5		9.94	2.2	22.86	6634	1.91	20 ~~260~~	Clear		10.
11:31		0.7		9.95	2.3	22.87	6628	1.92	158	Clear	none	144.
11:36		0.9		9.96	2.3	22.87	6626	1.92	152	Lt brown Clear		212.

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jessica DeHart	SAMPLER(S) SIGNATURES: Jessica DeHart	SAMPLING INITIATED AT: 11:40	SAMPLING ENDED AT: 12:40
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA		PAHs SW-846/8310	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	2	AG	40 mL	None	NA		TIC 415.2	PP
	1	PE	0.5 L	None	NA		Sulfate 300.0	PP
	3	PE	0.25 L	NaOH ZnAC	Added at Lab	Not Recorded	Sulfide 376.2	PP
	2	AG	40 mL	HCl	Added at Lab	Not Recorded	TOC 415.1	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	8260B	RFPP

REMARKS: Field Kits: DO: /
FLOW RATE 120 mL/min
Tubing on well bottom. Lifted up 1'
BEGAN PULLING SEDIMENT OFF WELL BOTTOM & sand

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

35-40' BGS

SITE NAME: North Fuel Farm-Cecil Field	SITE LOCATION: Jacksonville, FL	
WELL NO: CEF-076-113 S *	SAMPLE ID: CEF-076-113S	DATE: 12/16/08

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4"	WELL SCREEN INTERVAL DEPTH: 35 feet to 40 feet	STATIC DEPTH TO WATER (feet): 9.14	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 36'	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 9:52	PURGING ENDED AT: 10:18	TOTAL VOLUME PURGED (gallons): 1.4 gal

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
10:01		0.4	240 ml/min	9.14	2.9	24.49	1623	1.62	12.9	Clear		83.4
10:08		0.8	↓	9.15	3.0	24.53	1498	1.74	19.7	clear		93
10:13		1.1		9.15	3.0	24.54	1484	1.81	13.0	Clear		92.4
10:18		1.4		9.15	3.0	24.54	1481	1.80	12.1	clear		92.6

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JESSICA DEHART	SAMPLER(S) SIGNATURES: Jessica DeHart	SAMPLING INITIATED AT: 10:20	SAMPLING ENDED AT: 10:50
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: PPE	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA		PAHs SW-846/8310	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	8260B	RFPP

REMARKS: Field Kits: DO: Ø
DEDICATED TUBING DOWN WELL USED NEW TUBING

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: North Fuel Farm-Cecil Field	SITE LOCATION: Jacksonville, FL
WELL NO: CEF-076-110 D *	SAMPLE ID: CEF 076-110D / DATE: 12/16/08

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 12.10	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 13:20	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
13:29		0.3	180	12.18	2.6	25.71	5106	2.16	72.3	Lt brown		346
13:34		0.5		12.2	2.7	25.69	5125	1.89	42.5	Clear		317
13:39		0.7		12.21	2.9	25.52	5080	1.62	20.9	clear		303
13:44		1.0	190	12.21	2.8	25.50	5074	1.58	12.4	Clear		296
13:49		1.3		12.23	2.8	25.50	5068	1.57	10.8	Clear		296
B										w/iron particulate		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jessica Dehart	SAMPLER(S) SIGNATURES: Jessica Dehart	SAMPLING INITIATED AT: 13:52 ~~13:45~~	SAMPLING ENDED AT: 14:35
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: PPE	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA		PAHs SW-846/8310	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	8260B	RFPP

REMARKS: Field Kits: DO:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: North Fuel Farm-Cecil Field	SITE LOCATION: Jacksonville, FL
WELL NO: CEF-076-99D	SAMPLE ID: CEF-076-99D	DATE: 12/16

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.87	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 0835	PURGING ENDED AT: 0909	TOTAL VOLUME PURGED (gallons): 1.1

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (~~mmhos/cm~~ or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0847		0.3	160/m	10.94	6.84	25.46	3918	1.67	4	Clear	—	2.4
0852		0.45		11.13	6.89	26.04	3967	1.17	5	"	—	1.8
0856		0.6		11.26	6.92	26.23	3979	0.99	2	"	—	-2.1
0859		0.7		11.38	6.94	26.48	3993	0.82	2	"	—	-6.
0902		0.8		11.43	6.95	26.61	3997	0.77	2	"	—	-7.
0905		0.9		11.44	6.95	26.53	3990	0.69	2	"	—	-8.

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JACK STRADER	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 0910	SAMPLING ENDED AT: 0954
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: PPE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA		PAHs SW-846/8310	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	2	AG	40 mL	None	NA		TIC 415.2	PP
	1	PE	0.5 L	None	NA		Sulfate 300.0	PP
	3	PE	0.25 L	NaOH ZnAC	Added at Lab	Not Recorded	Sulfide 376.2	PP
	2	AG	40 mL	HCl	Added at Lab	Not Recorded	TOC 415.1	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	8260B	RFPP

REMARKS: Field Kits: DO: 0.2 160 mL/min

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: North Fuel Farm-Cecil Field	SITE LOCATION: Jacksonville, FL	
WELL NO: CEF-372-13R	SAMPLE ID: CEF-372-13R	DATE: 12-16-08

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 6.83	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1020	PURGING ENDED AT: 1042	TOTAL VOLUME PURGED (gallons): 0.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
1031	0.4			6.91	7.33	22.65	588	1.48	2	CLEAR	—	OR, -5.
1035	0.6			6.92	7.32	22.89	582	1.17	6	"	—	-5
1040	0.8			6.92	7.29	22.90	579	1.10	4	"	—	-5

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JACK STRADER	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1043	SAMPLING ENDED AT: 1120
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: PPE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA		PAHs SW-846/8310	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	8260B	RFPP

REMARKS: Field Kits: DO: ~~1 ppm~~ 0.6 ppm 150 mg/mL

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: North Fuel Farm-Cecil Field	SITE LOCATION: Jacksonville, FL	
WELL NO: CEF-076-98D	SAMPLE ID: CEF-076-98D	DATE: 12-16-08

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 10.12	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1217	PURGING ENDED AT: 1239	TOTAL VOLUME PURGED (gallons): 0.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	Or
1226	0.3			12.24	3.77	25.32	10587	1.96	6	CLEAR	SULFER	61
1231	0.45			12.78	3.76	25.05	10569	1.54	5	—	"	59
1235	0.6			13.28	3.77	25.01	10537	1.36	4	—	"	55
1238	0.7			13.71	3.75	25.00	10528	1.19	2	—	"	52

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JACK STRADER	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1243	SAMPLING ENDED AT: 1330
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: PPE	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA		PAHs SW-846/8310	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	8260B	RFPP

REMARKS: Field Kits: DO: 0.2 140 ml/min

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: North Fuel Farm-Cecil Field	SITE LOCATION: Jacksonville, FL
WELL NO: CEF-076-70I *	SAMPLE ID: CEF-076-70I / DATE: 12/15/08

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 6.24	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 2:54	PURGING ENDED AT: 3:30	TOTAL VOLUME PURGED (gallons): 2.0 gal

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	CEF
3:01	0.4			6.26	2.2	25.45	5020	0.56	4.65	Brown turbid		17.6
3:06	0.8			6.27	2.2	25.55	6413	0.81	4.34	Clear		28.6
3:11	1.0			6.27	2.3	25.56	6876	0.84	4.31	Clear		83.
3:16	1.2			6.27	2.34	25.56	6927	0.89	4.23	Clear		103.4
3:21	1.6			6.27	2.34	25.56	6931	0.89	4.21	Clear	aromatic	104
3:26	1.8			6.28	2.3	25.56	6930	0.89	4.20	Clear		104.

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jessica Dehart	SAMPLER(S) SIGNATURES: Jessica Dehart	SAMPLING INITIATED AT: 15:30 3:30	SAMPLING ENDED AT: 4:04
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 140 mL/min	TUBING MATERIAL CODE: PPE	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA		PAHs SW-846/8310	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	8260B	RFPP

REMARKS: Field Kits: DO: 0

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: North Fuel Farm-Cecil Field	SITE LOCATION: Jacksonville, FL
WELL NO: CEF-076-49S	SAMPLE ID: CEF-076-49S / DATE: 12/15/08

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 6.75	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1510	PURGING ENDED AT: 1528	TOTAL VOLUME PURGED (gallons): 0.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	OR
1516	0.2			6.75	1.98	24.27	5170	1.81	4.6	Clear	None	443
1519	0.3			6.75	1.96	24.32	5165	1.60	3.7			443
1522	0.4			6.75	1.96	24.34	5168	1.52	4.9			444
1525	0.5			6.75	1.95	24.36	5171	1.41	6.4			445
1528	0.6			6.75	1.95	24.41	5172	1.39	4.2			445

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Leif Hardewood	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1530	SAMPLING ENDED AT: 1610
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 160	TUBING MATERIAL CODE: PVE	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA		PAHs SW-846/8310	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	2	AG	40 mL	None	NA		TIC 415.2	PP
	1	PE	0.5 L	None	NA		Sulfate 300.0	PP
	3	PE	0.25 L	NaOH ZnAC	Added at Lab	Not Recorded	Sulfide 376.2	PP
	2	AG	40 mL	HCl	Added at Lab	Not Recorded	TOC 415.1	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	8260B	RFPP

REMARKS: Field Kits: DO: 4 ppm Flow Rate: 50 ml/20 sec.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: North Fuel Farm-Cecil Field	SITE LOCATION: Jacksonville, FL
WELL NO: CEF-076-94S	SAMPLE ID: CEF-076-94S — DATE: 12/15/08

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.53	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1225	PURGING ENDED AT: 1319	TOTAL VOLUME PURGED (gallons): 2.1

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1236	0.3			9.61	6.14	25.94	382	30.3	7	CLEAR	NONE
1241	0.5			9.61	6.11	25.97	373	22.5	6	"	"
1245	0.7			9.61	6.12	26.06	372	20.3	44	"	"
1257	1.1			9.59	6.25	26.19	375	16.7	46	"	"
1300	1.2			9.59	6.22	26.16	375	15.5	40	"	"

OR
18
17.
15.
9.
8

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JACK STRADER	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1320	SAMPLING ENDED AT: 1358
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 160	TUBING MATERIAL CODE: PPE	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA		PAHs SW-846/8310	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	8260B	RFPP

REMARKS: Field Kits: DO: 0.6 160 mL/min

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: North Fuel Farm-Cecil Field	SITE LOCATION: Jacksonville, FL
WELL NO: CEF-076- 93S	SAMPLE ID: CEF-076-93S
DATE: 12/15/08	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 8.55	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 12:35 ~~12:23~~	PURGING ENDED AT: 132	TOTAL VOLUME PURGED (gallons): 2.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	OR
12:48	0.4			9.15	5.9	24.67	322	0.39	29.8	brown/turbid	~~petroleum~~	16.7
12:53	0.7		9.17	~~8.36~~	~~8.36~~	24.58	318	0.34	26.6	yellow	petroleum	16.
12:56	0.8			9.17	~~8.40~~	24.62	316	0.32	24.6	yellow	petroleum	1.1
1300	1.0			9.17	6.1	24.47	315	0.31	23.8	yellow	petroleum	*1.
1305	1.2			9.17	5.9	24.38	312	0.29	27.0	yellow	petroleum	2.
1310	1.4			9.17	5.9	24.35	310	0.27	28.2	yellow	petroleum	3.2

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dawn Marshall	SAMPLER(S) SIGNATURES: Dawn Marshall	SAMPLING INITIATED AT: 1312	SAMPLING ENDED AT: 1348
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 160 mL/min	TUBING MATERIAL CODE: PPE	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA	5.9	PAHs SW-846/8310	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	8260B	RFPP

REMARKS: Field Kits: DO: 0.2 160 mL/min

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

* Incorrect pH readings. No pH reading was taken @ 1253 or 1256

GROUNDWATER SAMPLING LOG

SITE NAME: North Fuel Farm-Cecil Field	SITE LOCATION: Jacksonville, FL	
WELL NO: CEF-076-575	SAMPLE ID: CEF-076-575	DATE: 12-15-08

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 5.90	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1455	PURGING ENDED AT: 1529	TOTAL VOLUME PURGED (gallons): 1.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	OR
1515	0.5			6.30	2.15	22.9	1636	2.33	26	CLEAR	NONE	212
1519	0.7			6.29	2.34	22.9	1627	1.78	17	Clear	"	187
1523	0.8			6.29	2.43	22.95	1613	1.35	10	"	"	167
1527	0.9			6.29	2.46	22.98	1606	1.24	5	"	"	162

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JACK STRADER	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1533	SAMPLING ENDED AT: 1618
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: PPE	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA		PAHs SW-846/8310	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	2	AG	40 mL	None	NA		TIC 415.2	PP
	1	PE	0.5 L	None	NA		Sulfate 300.0	PP
	3	PE	0.25 L	NaOH ZnAC	Added at Lab	Not Recorded	Sulfide 376.2	PP
	2	AG	40 mL	HCl	Added at Lab	Not Recorded	TOC 415.1	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	8260B	RFPP

REMARKS: Field Kits: DO: 0.05 168 mL/min
GWE VOC Air Bubble, ONLY ONE TRPH TOC

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: North Fuel Farm-Cecil Field	SITE LOCATION: Jacksonville, FL	
WELL NO: CEF-076-104D	SAMPLE ID: CEF-076-104D	DATE: 12/15/08

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.01	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1225	PURGING ENDED AT: 1245	TOTAL VOLUME PURGED (gallons): 0.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1233	0.2			8.99	5.82	22.78	1578	2.08	7.5	Clear	None
1236	0.3			8.99	5.67	22.79	1590	1.88	4.7		
1238	0.4			8.99	5.57	22.73	1599	1.77	3.9		
1241	0.5			8.99	5.40	22.62	1605	1.62	3.5		

OK
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WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Leif Hickerson	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1245	SAMPLING ENDED AT: 1335
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 130	TUBING MATERIAL CODE: PPE	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA	5.29	PAHs SW-846/8310	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	2	AG	40 mL	None	NA		TIC 415.2	PP
	1	PE	0.5 L	None	NA		Sulfate 300.0	PP
	3	PE	0.25 L	NaOH ZnAC	Added at Lab	Not Recorded	Sulfide 376.2	PP
	2	AG	40 mL	HCl	Added at Lab	Not Recorded	TOC 415.1	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	8260B	RFPP

REMARKS: Field Kits: DO: 0.1 mg/l Flow Rate: 65 ml/30 sec

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: North Fuel Farm-Cecil Field	SITE LOCATION: Jacksonville, FL
WELL NO: CEF-076- 50I *	SAMPLE ID: CEF-076-SOI / DATE: 12/15/08

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 6.29	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1625	PURGING ENDED AT: 1645	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	OR,
1636	0.5			6.49	2.31	24.91	7947	1.63	6.7	Clear	Sulfuric	190
1639	0.6			6.49	2.27	24.79	7943	1.53	5.6			186
1642	0.7			6.49	2.24	24.67	7944	1.51	5.3			180
1645	0.8			6.49	2.21	24.56	7945	1.47	4.7			167

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Leif Hazlewood	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1645	SAMPLING ENDED AT: 1715
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 140	TUBING MATERIAL CODE: PVC	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA	2.21	PAHs SW-846/8310	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	8260B	RFPP

REMARKS: Field Kits: DO: 0.2 mg/l Flow Rate: 70 ml/30 sec.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: North Fuel Farm-Cecil Field	SITE LOCATION: Jacksonville, FL	
WELL NO: CEF-076-95S	SAMPLE ID: CEF-076-95S	DATE: 12/16/08

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.375	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 8.19	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1227	PURGING ENDED AT: 1245	TOTAL VOLUME PURGED (gallons): 0.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	Ok
1232	0.1			8.14	5.67	23.17	94	1.75	16.4	Clear	None	14
1235	0.2			8.29	5.55	22.83	65	1.69	14.9			149
1238	0.3			8.33	5.49	22.78	57	1.57	14.1			150
1241	0.4			8.39	5.45	22.80	53	1.47	14.3			154.
1244	0.5			8.46	5.41	22.75	51	1.41	15.4			149.

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Leif Hirlewood	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1245	SAMPLING ENDED AT: 1319
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 160	TUBING MATERIAL CODE: PPE	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA	5.91	PAHs SW-846/8310	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	2	AG	40 mL	None	NA		TIC 415.2	PP
	1	PE	0.5 L	None	NA		Sulfate 300.0	PP
	~~3~~ 2	PE	0.25 L	NaOH ZnAC	Added at Lab	Not Recorded	Sulfide 376.2	PP
	2	AG	40 mL	HCl	Added at Lab	Not Recorded	TOC 415.1	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	8260B	RFPP

REMARKS: Field Kits: DO: 0.2 mg/l Flow Rate: 80 ml/30 sec

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

(X) One bottle short for Sulfide test

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: North Fuel Farm-Cecil Field	SITE LOCATION: Jacksonville, FL	
WELL NO: CEF-076- 116D	SAMPLE ID: CEF-076-116D	DATE: 12/16/08

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 12.33	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 850	PURGING ENDED AT: 905	TOTAL VOLUME PURGED (gallons): 0.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
8:59	0.2			12.34	3.20	20.81	5382	1.75	4.5	Clear	None	233
9:02	0.3			12.34	3.17	20.87	5632	1.69	5.8			214
9:05	0.4			12.34	3.17	20.91	5795	1.63	3.9			202

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Leif Hazlewood	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 905	SAMPLING ENDED AT: 1002
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 120	TUBING MATERIAL CODE: PDE	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA	3.17	PAHs SW-846/8310	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	2	AG	40 mL	None	NA		TIC 415.2	PP
	1	PE	0.5 L	None	NA		Sulfate 300.0	PP
	3	PE	0.25 L	NaOH ZnAC	Added at Lab	Not Recorded	Sulfide 376.2	PP
	2	AG	40 mL	HCl	Added at Lab	Not Recorded	TOC 415.1	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	8260B	RFPP

REMARKS: Field Kits: DO: 0.4 mg/l Flow Rate: 60 ml/30 sec.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

(*) Very little H_2SO_4 in 1 l Amber Glass FL-PRO Sample Jars

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: North Fuel Farm-Cecil Field	SITE LOCATION: Jacksonville, FL
WELL NO: CEF-076-100D	SAMPLE ID: CEF-076-100D — DATE: 12/16/08

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.19	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1128	PURGING ENDED AT: 1100	TOTAL VOLUME PURGED (gallons): 1.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	OR
10:42	0.4			11.12	5.34	22.89	1870	2.01	80.3	Clear		12
10:45	0.5			11.26	5.65	23.00	1829	1.86	35.1			97
10:48	0.6			11.34	5.81	23.02	1836	1.72	22.8			88
10:51	0.7			11.42	5.91	22.98	1868	1.66	14.2			79
10:54	0.8			11.49	5.97	22.96	1906	1.56	9.5			71
10:57	0.9			11.52	6.03	23.01	1951	1.52	7.3			68.
11:00	1.0			11.57	6.07	22.94	1968	1.51	5.4			69.

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Leif Hazlewood	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1100	SAMPLING ENDED AT: 1153
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 140	TUBING MATERIAL CODE: PPE	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA	6.07	PAHs SW-846/8310	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	2	AG	40 mL	None	NA		TIC 415.2	PP
	1	PE	0.5 L	None	NA		Sulfate 300.0	PP
	3	PE	0.25 L	NaOH ZnAC	Added at Lab	Not Recorded	Sulfide 376.2	PP
	2	AG	40 mL	HCl	Added at Lab	Not Recorded	TOC 415.1	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	8260B	RFPP

REMARKS: Field Kits: DO: 0.1 mg/l Flow Rate: 70ml/30 sec.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

APPENDIX B

LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY FORMS

Southeast ACCUTEST

01/08/09

Technical Report for

Solutions-IES, Inc

Cecil Field North Fuel Farm; Jacksonville, FL

8030.08A2.NAVF

Accutest Job Number: F62293

Sampling Dates: 12/15/08 - 12/16/08

Report to:

Solutions-IES, Inc

ruhlmanc@solutions-ies.com

ATTN: Carrie Ruhlmann

Total number of pages in report: 162

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Sections: 1 2 3 4 5 6 7

Table of Contents

-1-

Section 1: Sample Summary **3**

Section 2: Case Narrative/Conformance Summary 5

Section 3: Sample Results 9

3.1 F62293-1: CEF-076-104D 10

3.2 F62293-2: CEF-076-93S 16

3.3 F62293-3: CEF-076-94S 21

3.4 F62293-4: CEF-076-49S 26

3.5 F62293-5: CEF-076-70I 32

3.6 F62293-6: CEF-076-57S 37

3.7 F62293-7: CEF-076-50I 43

3.8 F62293-8: CEF-076-99D 48

3.9 F62293-9: CEF-076-13R 54

3.10 F62293-10: CEF-076-116D 59

3.11 F62293-11: CEF-076-100D 65

3.12 F62293-12: CEF-076-113S 71

3.13 F62293-13: CEF-076-61I 76

3.14 F62293-14: CEF-076-95S 82

3.15 F62293-15: CEF-076-98S 88

3.16 F62293-16: FIELD BLANK 93

3.17 F62293-17: CEF-076-110D 98

3.18 F62293-18: TRIP BLANK 103

3.19 F62293-19: TRIP BLANK 106

Section 4: Misc. Forms **109**

4.1: Chain of Custody 110

Section 5: GC/MS Volatiles - QC Data Summaries 114

5.1: Method Blank Summary 115

5.2: Blank Spike Summary 127

5.3: Matrix Spike/Matrix Spike Duplicate Summary 139

Section 6: GC Semi-volatiles - QC Data Summaries 151

6.1: Method Blank Summary 152

6.2: Blank Spike Summary 155

6.3: Matrix Spike/Matrix Spike Duplicate Summary 157

Section 7: General Chemistry - QC Data Summaries **159**

7.1: Method Blank and Spike Results Summary 160

7.2: Duplicate Results Summary 161

7.3: Matrix Spike Results Summary 162

Sample Summary

Solutions-IES, Inc

Job No: F62293

Cecil Field North Fuel Farm; Jacksonville, FL
Project No: 8030.08A2.NAVF

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F62293-1	12/15/08	12:45 LH	12/17/08	AQ	Ground Water	CEF-076-104D
F62293-2	12/15/08	13:12 LH	12/17/08	AQ	Ground Water	CEF-076-93S
F62293-3	12/15/08	13:20 LH	12/17/08	AQ	Ground Water	CEF-076-94S
F62293-4	12/15/08	15:30 LH	12/17/08	AQ	Ground Water	CEF-076-49S
F62293-5	12/15/08	15:30 LH	12/17/08	AQ	Ground Water	CEF-076-70I
F62293-6	12/15/08	15:33 LH	12/17/08	AQ	Ground Water	CEF-076-57S
F62293-7	12/15/08	16:45 LH	12/17/08	AQ	Ground Water	CEF-076-50I
F62293-8	12/16/08	09:10 LH	12/17/08	AQ	Ground Water	CEF-076-99D
F62293-9	12/16/08	10:43 LH	12/17/08	AQ	Ground Water	CEF-076-13R
F62293-10	12/16/08	09:05 LH	12/17/08	AQ	Ground Water	CEF-076-116D
F62293-11	12/16/08	11:00 LH	12/17/08	AQ	Ground Water	CEF-076-100D
F62293-12	12/16/08	10:20 LH	12/17/08	AQ	Ground Water	CEF-076-113S
F62293-13	12/16/08	11:40 LH	12/17/08	AQ	Ground Water	CEF-076-61I

Sample Summary
(continued)

Solutions-IES, Inc

Job No: F62293

Cecil Field North Fuel Farm; Jacksonville, FL
Project No: 8030.08A2.NAVF

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F62293-14	12/16/08	12:45 LH	12/17/08	AQ	Ground Water	CEF-076-95S
F62293-15	12/16/08	12:43 LH	12/17/08	AQ	Ground Water	CEF-076-98S
F62293-16	12/16/08	14:35 LH	12/17/08	AQ	Field Blank Water	FIELD BLANK
F62293-17	12/16/08	13:52 LH	12/17/08	AQ	Ground Water	CEF-076-110D
F62293-18	12/16/08	00:00 LH	12/17/08	AQ	Trip Blank Water	TRIP BLANK
F62293-19	12/16/08	00:00 LH	12/17/08	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Solutions-IES, Inc **Job No:** F62293

Site: Cecil Field North Fuel Farm; Jacksonville, FL **Report Date** 1/8/2009 10:45:49 AM

16 Samples, 1 Trip Blank and 1 Field Blank were collected on between 12/15/2008 and 12/16/2008 and received at Accutest on 12/17/2008 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of F62293. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VC2432

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F62263-2MS, F62263-2MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for 1,2,3-Trichloropropane, Acetone, Acrolein are outside control limits.

Matrix Spike Recovery(s) for 1,2,3-Trichloropropane, 2-Chloroethyl vinyl ether, Acetone, Acrolein, Methyl ethyl ketone, 1,2,4-Trimethylbenzene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Matrix Spike Duplicate Recovery(s) for 1,2,4-Trimethylbenzene, 2-Chloroethyl vinyl ether, Acetone, Acrolein, Methyl ethyl ketone, Naphthalene, o-Xylene are outside control limits. Probable cause due to matrix interference.

RPD(s) for MSD for 2-Chloroethyl vinyl ether are outside control limits for sample F62263-2MSD. Probable cause due to sample homogeneity.

F62293-5 for Methylene chloride: Suspected laboratory contaminant.

Matrix: AQ **Batch ID:** VC2433

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F62280-3MS, F62280-3MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for 1,2,3-Trichloropropane, Acetone, Acrolein are outside control limits.

Matrix Spike Recovery(s) for 1,2,3-Trichloropropane, 2-Chloroethyl vinyl ether, Acetone are outside control limits. Probable cause due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 1,2,3-Trichloropropane, 2-Chloroethyl vinyl ether, Acetone are outside control limits. Probable cause due to matrix interference.

F62293-16 for Acetone: CCV outside of control limits; results may be biased low.

F62293-17 for Acetone: CCV outside of control limits; results may be biased low.

F62293-12 for Methylene chloride: Suspected laboratory contaminant.

F62293-12 for Acetone: CCV outside of control limits; results may be biased low.

F62293-19 for Acetone: CCV outside of control limits; results may be biased low.

F62293-16 for Methylene chloride: Suspected laboratory contaminant.

F62293-14 for Acetone: CCV outside of control limits; results may be biased low.

F62293-13 for Acetone: CCV outside of control limits; results may be biased low.

F62293-17 for Methylene chloride: Suspected laboratory contaminant.

F62293-18 for Acetone: CCV outside of control limits; results may be biased low.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VJ2710

All samples were analyzed within the recommended method holding time.

Sample(s) F62264-3MS, F62264-3MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Blank Spike Recovery(s) for Acetone, Acrolein, Tetrachloroethylene are outside control limits.

Matrix Spike Recovery(s) for 2-Chloroethyl vinyl ether, Acrolein are outside control limits. Probable cause due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 2-Chloroethyl vinyl ether, Acrolein, Chlorobenzene, Ethylbenzene, Toluene are outside control limits. Probable cause due to matrix interference.

F62293-10 for Acetone: Associated BS recovery outside control limits.

Matrix: AQ **Batch ID:** VJ2715

All method blanks for this batch meet method specific criteria.

Sample(s) F62315-5MS, F62315-5MSD were used as the QC samples indicated.

The following samples were run outside of holding time for method SW846 8260B: F62293-6

Blank Spike Recovery(s) for Vinyl Acetate are outside control limits.

Matrix Spike Recovery(s) for 2-Chloroethyl vinyl ether, Vinyl Acetate are outside control limits. Probable cause due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 2-Chloroethyl vinyl ether, Vinyl Acetate are outside control limits. Probable cause due to matrix interference.

Matrix Spike Recovery(s) for cis-1,2-Dichloroethylene, Dichlorodifluoromethane, Trichloroethylene, Vinyl chloride are outside control limits. Outside control limits due to high level in sample relative to spike amount.

RPD(s) for MSD for Chloroethane are outside control limits for sample F62315-5MSD. Probable cause due to sample homogeneity.

Extractables by GC By Method FLORIDA-PRO

Matrix: AQ **Batch ID:** OP27527

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F62293-8MS, F62293-8MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8310

Matrix: AQ **Batch ID:** OP27528

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) F62293-5MS, F62293-5MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Recovery(s) for Chrysene are outside control limits. Outside control limits due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Chrysene, Naphthalene are outside control limits. Probable cause due to matrix interference.

RPD(s) for MSD for Chrysene are outside control limits for sample OP27528-MSD. Probable cause due to sample homogeneity.

F62293-13: All hits confirmed by spectral match using a diode array detector.

F62293-5: All hits confirmed by spectral match using a diode array detector.

F62293-2: All hits confirmed by spectral match using a diode array detector.

F62293-15: All hits confirmed by spectral match using a diode array detector.

F62293-12: All hits confirmed by spectral match using a diode array detector.

F62293-17: All hits confirmed by spectral match using a diode array detector.

Wet Chemistry By Method EPA 300/SW846 9056

Matrix: AQ **Batch ID:** GP12290

All samples were prepared within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F62293-1DUP, F62293-1MS were used as the QC samples for Sulfate.

Wet Chemistry By Method SM19 5310B/SW 9060A

Matrix: AQ **Batch ID:** GP12296

All samples were prepared within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F62144-3ADUP, F62144-3AMS were used as the QC samples for Dissolved Carbon.

Matrix Spike Recovery(s) for Dissolved Carbon are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Matrix: AQ **Batch ID:** GP12297

All samples were prepared within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F62188-1ADUP, F62188-1AMS were used as the QC samples for Dissolved Carbon.

Matrix Spike Recovery(s) for Dissolved Carbon are outside control limits. Probable cause due to matrix interference.

Matrix: AQ **Batch ID:** GP12307

All samples were prepared within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F62144-1ADUP, F62144-1AMS were used as the QC samples for Dissolved Organic Carbon.

Matrix Spike Recovery(s) for Dissolved Organic Carbon are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Matrix: AQ **Batch ID:** GP12308

All samples were prepared within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F62188-1ADUP, F62188-1AMS were used as the QC samples for Dissolved Organic Carbon.

Matrix Spike Recovery(s) for Dissolved Organic Carbon are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Wet Chemistry By Method SM20 4500S F

Matrix: AQ **Batch ID:** GN33256

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F62284-1DUP, F62284-1MS were used as the QC samples for Sulfide.

Wet Chemistry By Method SM20 5310B, 9060M

Matrix: AQ **Batch ID:** R20919

F62293-1 for Dissolved Inorganic Carbon: Calculated as: Dissolved Carbon - Dissolved Organic Carbon

Matrix: AQ **Batch ID:** R20920

F62293-4 for Dissolved Inorganic Carbon: Calculated as: Dissolved Carbon - Dissolved Organic Carbon

Matrix: AQ **Batch ID:** R20921

F62293-6 for Dissolved Inorganic Carbon: Calculated as: Dissolved Carbon - Dissolved Organic Carbon

Matrix: AQ **Batch ID:** R20922

F62293-8 for Dissolved Inorganic Carbon: Calculated as: Dissolved Carbon - Dissolved Organic Carbon

Matrix: AQ **Batch ID:** R20923

F62293-10 for Dissolved Inorganic Carbon: Calculated as: Dissolved Carbon - Dissolved Organic Carbon

Matrix: AQ **Batch ID:** R20924

F62293-11 for Dissolved Inorganic Carbon: Calculated as: Dissolved Carbon - Dissolved Organic Carbon

Matrix: AQ **Batch ID:** R20925

F62293-13 for Dissolved Inorganic Carbon: Calculated as: Dissolved Carbon - Dissolved Organic Carbon

Matrix: AQ **Batch ID:** R20926

F62293-14 for Dissolved Inorganic Carbon: Calculated as: Dissolved Carbon - Dissolved Organic Carbon

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision,

accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

Date: January 08, 2009

Svetlana Izosimova, QAO (signature on file)

ACCUTEST
F62293

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CEF-076-104D		
Lab Sample ID:	F62293-1	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C060020.D	1	12/24/08	AJ	n/a	n/a	VC2432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-104D		
Lab Sample ID:	F62293-1	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-104D		
Lab Sample ID:	F62293-1	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	92%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-104D		
Lab Sample ID:	F62293-1	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA047089.D	1	12/22/08	FEA	12/19/08	OP27528	GAA1888
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.96 U	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		43-121%
92-94-4	p-Terphenyl	78%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-104D		
Lab Sample ID:	F62293-1	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53854.D	1	12/22/08	SL	12/19/08	OP27527	GIJ1911
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-104D		
Lab Sample ID:	F62293-1	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Dissolved Carbon	18.3	1.0	0.50	mg/l	1	12/22/08 10:39	LE	SM19 5310B/SW 9060A
Dissolved Inorganic Carbon [a]	15.5	2.0	1.0	mg/l	1	12/24/08 14:29	LE	SM20 5310B, 9060M
Dissolved Organic Carbon	2.8	1.0	0.50	mg/l	1	12/24/08 14:29	LE	SM19 5310B/SW 9060A
Sulfate	450	4.0	2.0	mg/l	2	12/21/08 03:53	CC	EPA 300/SW846 9056
Sulfide	2.0	1.0	0.60	mg/l	1	12/22/08	LE	SM20 4500S F

(a) Calculated as: Dissolved Carbon - Dissolved Organic Carbon

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-93S		
Lab Sample ID:	F62293-2	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C060021.D	1	12/24/08	AJ	n/a	n/a	VC2432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

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RL = Reporting Limit = PQL
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I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-93S		
Lab Sample ID:	F62293-2	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.83	1.0	0.43	ug/l	I
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.32	1.0	0.20	ug/l	I
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.37	2.0	0.22	ug/l	I
108-67-8	1,3,5-Trimethylbenzene	0.23	2.0	0.20	ug/l	I
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.80	1.0	0.35	ug/l	I
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	2.3	2.0	0.78	ug/l	
95-47-6	o-Xylene	1.4	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-93S		
Lab Sample ID:	F62293-2	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	89%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-93S		
Lab Sample ID:	F62293-2	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA047090.D	1	12/22/08	FEA	12/19/08	OP27528	GAA1888
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	1.1	1.9	0.96	ug/l	I
90-12-0	1-Methylnaphthalene	0.65	1.9	0.48	ug/l	I
91-57-6	2-Methylnaphthalene	1.6	1.9	0.48	ug/l	I
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	72%		43-121%
92-94-4	p-Terphenyl	39%		30-122%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-93S		
Lab Sample ID:	F62293-2	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53855.D	1	12/22/08	SL	12/19/08	OP27527	GIJ1911
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.244	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-94S		
Lab Sample ID:	F62293-3	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C060022.D	1	12/24/08	AJ	n/a	n/a	VC2432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-94S		
Lab Sample ID:	F62293-3	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-94S		
Lab Sample ID:	F62293-3	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	87%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-94S		
Lab Sample ID:	F62293-3	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA047091.D	1	12/22/08	FEA	12/19/08	OP27528	GAA1888
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.95 U	1.9	0.95	ug/l	
208-96-8	Acenaphthylene	0.95 U	1.9	0.95	ug/l	
120-12-7	Anthracene	0.95 U	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.095 U	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.95 U	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.95 U	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.95 U	1.9	0.95	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		43-121%
92-94-4	p-Terphenyl	52%		30-122%

U = Not detected MDL - Method Detection Limit
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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-94S		
Lab Sample ID:	F62293-3	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53856.D	1	12/22/08	SL	12/19/08	OP27527	GIJ1911
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.215	0.24	0.16	mg/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	104%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
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V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-49S		
Lab Sample ID:	F62293-4	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C060023.D	1	12/24/08	AJ	n/a	n/a	VC2432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	1.3	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-49S		
Lab Sample ID:	F62293-4	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22	2.0	0.22	ug/l	I
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	1.2	2.0	0.78	ug/l	I
95-47-6	o-Xylene	0.74	1.0	0.37	ug/l	I

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-49S		
Lab Sample ID:	F62293-4	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	90%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
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Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-49S		
Lab Sample ID:	F62293-4	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA047092.D	1	12/22/08	FEA	12/19/08	OP27528	GAA1888
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.96 U	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		43-121%
92-94-4	p-Terphenyl	61%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-49S		
Lab Sample ID:	F62293-4	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53857.D	1	12/22/08	SL	12/19/08	OP27527	GIJ1911
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.196	0.24	0.16	mg/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-49S		
Lab Sample ID:	F62293-4	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Dissolved Carbon	27.0	1.0	0.50	mg/l	1	12/22/08 10:47	LE	SM19 5310B/SW 9060A
Dissolved Inorganic Carbon [a]	11.5	2.0	1.0	mg/l	1	12/24/08 14:44	LE	SM20 5310B, 9060M
Dissolved Organic Carbon	15.5	1.0	0.50	mg/l	1	12/24/08 14:44	LE	SM19 5310B/SW 9060A
Sulfate	2640	20	10	mg/l	10	12/21/08 06:30	CC	EPA 300/SW846 9056
Sulfide	0.86 I	1.0	0.60	mg/l	1	12/22/08	LE	SM20 4500S F

(a) Calculated as: Dissolved Carbon - Dissolved Organic Carbon

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-70I		
Lab Sample ID:	F62293-5	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C060010.D	10	12/24/08	AJ	n/a	n/a	VC2432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	100 U	250	100	ug/l	
107-02-8	Acrolein	50 U	200	50	ug/l	
107-13-1	Acrylonitrile	20 U	100	20	ug/l	
71-43-2	Benzene	400	10	4.0	ug/l	
108-86-1	Bromobenzene	2.6 U	10	2.6	ug/l	
74-97-5	Bromochloromethane	2.3 U	10	2.3	ug/l	
75-27-4	Bromodichloromethane	2.0 U	10	2.0	ug/l	
75-25-2	Bromoform	3.3 U	10	3.3	ug/l	
104-51-8	n-Butylbenzene	2.8 U	10	2.8	ug/l	
135-98-8	sec-Butylbenzene	2.5 U	10	2.5	ug/l	
98-06-6	tert-Butylbenzene	3.2 U	10	3.2	ug/l	
108-90-7	Chlorobenzene	2.2 U	10	2.2	ug/l	
75-00-3	Chloroethane	4.8 U	20	4.8	ug/l	
67-66-3	Chloroform	2.8 U	10	2.8	ug/l	
95-49-8	o-Chlorotoluene	2.5 U	10	2.5	ug/l	
106-43-4	p-Chlorotoluene	2.1 U	10	2.1	ug/l	
110-75-8	2-Chloroethyl vinyl ether	10 U	50	10	ug/l	
75-15-0	Carbon disulfide	4.0 U	20	4.0	ug/l	
56-23-5	Carbon tetrachloride	2.2 U	10	2.2	ug/l	
75-34-3	1,1-Dichloroethane	2.4 U	10	2.4	ug/l	
75-35-4	1,1-Dichloroethylene	5.4 U	10	5.4	ug/l	
563-58-6	1,1-Dichloropropene	2.3 U	10	2.3	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	3.2 U	20	3.2	ug/l	
106-93-4	1,2-Dibromoethane	2.8 U	10	2.8	ug/l	
107-06-2	1,2-Dichloroethane	3.4 U	10	3.4	ug/l	
78-87-5	1,2-Dichloropropane	2.1 U	10	2.1	ug/l	
142-28-9	1,3-Dichloropropane	2.6 U	10	2.6	ug/l	
594-20-7	2,2-Dichloropropane	2.8 U	10	2.8	ug/l	
124-48-1	Dibromochloromethane	2.0 U	10	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	10 U	20	10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2.0 U	10	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	2.1 U	10	2.1	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-70I		
Lab Sample ID:	F62293-5	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	2.3 U	10	2.3	ug/l	
95-50-1	o-Dichlorobenzene	2.0 U	10	2.0	ug/l	
106-46-7	p-Dichlorobenzene	2.2 U	10	2.2	ug/l	
156-60-5	trans-1,2-Dichloroethylene	4.5 U	10	4.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	2.1 U	10	2.1	ug/l	
100-41-4	Ethylbenzene	10.1	10	4.3	ug/l	
591-78-6	2-Hexanone	50 U	100	50	ug/l	
87-68-3	Hexachlorobutadiene	6.9 U	20	6.9	ug/l	
98-82-8	Isopropylbenzene	20.1	10	2.0	ug/l	
99-87-6	p-Isopropyltoluene	3.2 U	10	3.2	ug/l	
108-10-1	4-Methyl-2-pentanone	20 U	50	20	ug/l	
74-83-9	Methyl bromide	7.8 U	20	7.8	ug/l	
74-87-3	Methyl chloride	6.1 U	20	6.1	ug/l	
74-95-3	Methylene bromide	3.0 U	20	3.0	ug/l	
75-09-2	Methylene chloride [a]	38.4	50	10	ug/l	I
78-93-3	Methyl ethyl ketone	20 U	50	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.6 U	10	2.6	ug/l	
91-20-3	Naphthalene	20.8	50	10	ug/l	I
103-65-1	n-Propylbenzene	15.9	10	2.5	ug/l	
100-42-5	Styrene	3.6 U	10	3.6	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	2.0 U	10	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	3.3 U	10	3.3	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	2.1 U	10	2.1	ug/l	
79-00-5	1,1,2-Trichloroethane	2.6 U	10	2.6	ug/l	
87-61-6	1,2,3-Trichlorobenzene	5.0 U	10	5.0	ug/l	
96-18-4	1,2,3-Trichloropropane	3.4 U	20	3.4	ug/l	
120-82-1	1,2,4-Trichlorobenzene	5.0 U	10	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	106	20	2.2	ug/l	
108-67-8	1,3,5-Trimethylbenzene	31.6	20	2.0	ug/l	
127-18-4	Tetrachloroethylene	2.2 U	10	2.2	ug/l	
108-88-3	Toluene	3.5 U	10	3.5	ug/l	
79-01-6	Trichloroethylene	3.2 U	10	3.2	ug/l	
75-69-4	Trichlorofluoromethane	5.0 U	20	5.0	ug/l	
75-01-4	Vinyl chloride	3.0 U	10	3.0	ug/l	
108-05-4	Vinyl Acetate	36 U	100	36	ug/l	
	m,p-Xylene	115	20	7.8	ug/l	
95-47-6	o-Xylene	74.4	10	3.7	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-70I		
Lab Sample ID:	F62293-5	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	89%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	87%		84-120%

(a) Suspected laboratory contaminant.

U = Not detected MDL - Method Detection Limit
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V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-70I		
Lab Sample ID:	F62293-5	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA047093.D	1	12/22/08	FEA	12/19/08	OP27528	GAA1888
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.98 U	2.0	0.98	ug/l	
208-96-8	Acenaphthylene	0.98 U	2.0	0.98	ug/l	
120-12-7	Anthracene	0.98 U	2.0	0.98	ug/l	
56-55-3	Benzo(a)anthracene	0.049 U	0.20	0.049	ug/l	
50-32-8	Benzo(a)pyrene	0.049 U	0.20	0.049	ug/l	
205-99-2	Benzo(b)fluoranthene	0.049 U	0.20	0.049	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.098 U	0.20	0.098	ug/l	
207-08-9	Benzo(k)fluoranthene	0.049 U	0.20	0.049	ug/l	
218-01-9	Chrysene	0.49 U	2.0	0.49	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.049 U	0.20	0.049	ug/l	
206-44-0	Fluoranthene	0.49 U	2.0	0.49	ug/l	
86-73-7	Fluorene	0.98 U	2.0	0.98	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.049 U	0.20	0.049	ug/l	
91-20-3	Naphthalene	24.7	2.0	0.98	ug/l	
90-12-0	1-Methylnaphthalene	0.49 U	2.0	0.49	ug/l	
91-57-6	2-Methylnaphthalene	0.49 U	2.0	0.49	ug/l	
85-01-8	Phenanthrene	0.98 U	2.0	0.98	ug/l	
129-00-0	Pyrene	0.49 U	2.0	0.49	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		43-121%
92-94-4	p-Terphenyl	82%		30-122%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-70I		
Lab Sample ID:	F62293-5	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53883.D	1	12/23/08	SL	12/19/08	OP27527	GIJ1912
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.655	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-57S		
Lab Sample ID:	F62293-6	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J043923.D	1	12/29/08	KW	n/a	n/a	VJ2715
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	3.5	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.54	1.0	0.28	ug/l	I
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-57S		
Lab Sample ID:	F62293-6	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.69	1.0	0.43	ug/l	I
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.27	1.0	0.20	ug/l	I
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.40	2.0	0.22	ug/l	I
108-67-8	1,3,5-Trimethylbenzene	0.28	2.0	0.20	ug/l	I
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	1.5	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-57S		
Lab Sample ID:	F62293-6	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-57S		
Lab Sample ID:	F62293-6	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA047098.D	1	12/22/08	FEA	12/19/08	OP27528	GAA1888
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.95 U	1.9	0.95	ug/l	
208-96-8	Acenaphthylene	0.95 U	1.9	0.95	ug/l	
120-12-7	Anthracene	0.95 U	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.095 U	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.95 U	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.95 U	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.95 U	1.9	0.95	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		43-121%
92-94-4	p-Terphenyl	82%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-57S		
Lab Sample ID:	F62293-6	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53859.D	1	12/22/08	SL	12/19/08	OP27527	GIJ1911
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.206	0.24	0.16	mg/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	97%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-57S		
Lab Sample ID:	F62293-6	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Dissolved Carbon	11.5	1.0	0.50	mg/l	1	12/22/08 10:54	LE	SM19 5310B/SW 9060A
Dissolved Inorganic Carbon [a]	6.5	2.0	1.0	mg/l	1	12/24/08 14:59	LE	SM20 5310B, 9060M
Dissolved Organic Carbon	5.0	1.0	0.50	mg/l	1	12/24/08 14:59	LE	SM19 5310B/SW 9060A
Sulfate	867	20	10	mg/l	10	12/21/08 06:52	CC	EPA 300/SW846 9056
Sulfide	0.70 I	1.0	0.60	mg/l	1	12/22/08	LE	SM20 4500S F

(a) Calculated as: Dissolved Carbon - Dissolved Organic Carbon

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-50I		
Lab Sample ID:	F62293-7	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C060024.D	1	12/24/08	AJ	n/a	n/a	VC2432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	82.4	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-50I		
Lab Sample ID:	F62293-7	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.80	1.0	0.43	ug/l	I
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1.6	2.0	0.22	ug/l	I
108-67-8	1,3,5-Trimethylbenzene	0.43	2.0	0.20	ug/l	I
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	5.2	2.0	0.78	ug/l	
95-47-6	o-Xylene	13.0	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-50I		
Lab Sample ID:	F62293-7	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	90%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-50I		
Lab Sample ID:	F62293-7	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA047099.D	1	12/22/08	FEA	12/19/08	OP27528	GAA1888
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.96 U	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		43-121%
92-94-4	p-Terphenyl	74%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-50I		
Lab Sample ID:	F62293-7	**Date Sampled:**	12/15/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53860.D	1	12/22/08	SL	12/19/08	OP27527	GIJ1911
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.259	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-99D		
Lab Sample ID:	F62293-8	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C060025.D	1	12/24/08	AJ	n/a	n/a	VC2432
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-99D		
Lab Sample ID:	F62293-8	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-99D		
Lab Sample ID:	F62293-8	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	90%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	95%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-99D		
Lab Sample ID:	F62293-8	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA047100.D	1	12/22/08	FEA	12/19/08	OP27528	GAA1888
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.95 U	1.9	0.95	ug/l	
208-96-8	Acenaphthylene	0.95 U	1.9	0.95	ug/l	
120-12-7	Anthracene	0.95 U	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.095 U	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.95 U	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.95 U	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.95 U	1.9	0.95	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		43-121%
92-94-4	p-Terphenyl	80%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-99D		
Lab Sample ID:	F62293-8	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53861.D	1	12/22/08	SL	12/19/08	OP27527	GIJ1911
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.182	0.24	0.16	mg/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	101%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-99D		
Lab Sample ID:	F62293-8	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Dissolved Carbon	92.5	1.0	0.50	mg/l	1	12/22/08 11:02	LE	SM19 5310B/SW 9060A
Dissolved Inorganic Carbon [a]	80.5	2.0	1.0	mg/l	1	12/24/08 15:14	LE	SM20 5310B, 9060M
Dissolved Organic Carbon	12.0	1.0	0.50	mg/l	1	12/24/08 15:14	LE	SM19 5310B/SW 9060A
Sulfate	1880	20	10	mg/l	10	12/21/08 07:15	CC	EPA 300/SW846 9056
Sulfide	0.91 I	1.0	0.60	mg/l	1	12/22/08	LE	SM20 4500S F

(a) Calculated as: Dissolved Carbon - Dissolved Organic Carbon

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CEF-076-13R		
Lab Sample ID:	F62293-9	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J043929.D	1	12/29/08	KW	n/a	n/a	VJ2715
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit = PQL V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-13R		
Lab Sample ID:	F62293-9	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-13R		
Lab Sample ID:	F62293-9	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	108%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-13R		
Lab Sample ID:	F62293-9	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA047101.D	1	12/22/08	FEA	12/19/08	OP27528	GAA1888
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.95 U	1.9	0.95	ug/l	
208-96-8	Acenaphthylene	0.95 U	1.9	0.95	ug/l	
120-12-7	Anthracene	0.95 U	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.095 U	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.95 U	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.95 U	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.95 U	1.9	0.95	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		43-121%
92-94-4	p-Terphenyl	84%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-13R		
Lab Sample ID:	F62293-9	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53866.D	1	12/23/08	SL	12/19/08	OP27527	GIJ1911
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.380	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	100%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-116D		
Lab Sample ID:	F62293-10	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J043809.D	1	12/25/08	JG	n/a	n/a	VJ2710
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	87.7	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	68.9	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	63.2	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-116D		
Lab Sample ID:	F62293-10	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.49	1.0	0.43	ug/l	I
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.36	1.0	0.20	ug/l	I
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	24.9	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	3.7	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.39	2.0	0.20	ug/l	I
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	1.5	2.0	0.78	ug/l	I
95-47-6	o-Xylene	1.7	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit = PQL V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-116D		
Lab Sample ID:	F62293-10	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

(a) Associated BS recovery outside control limits.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-116D		
Lab Sample ID:	F62293-10	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA047102.D	1	12/22/08	FEA	12/19/08	OP27528	GAA1888
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.95 U	1.9	0.95	ug/l	
208-96-8	Acenaphthylene	0.95 U	1.9	0.95	ug/l	
120-12-7	Anthracene	0.95 U	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.095 U	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.95 U	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.95 U	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.95 U	1.9	0.95	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		43-121%
92-94-4	p-Terphenyl	86%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-116D		
Lab Sample ID:	F62293-10	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53867.D	1	12/23/08	SL	12/19/08	OP27527	GIJ1911
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.231	0.24	0.16	mg/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	97%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-116D		
Lab Sample ID:	F62293-10	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Dissolved Carbon	51.0	1.0	0.50	mg/l	1	12/22/08 12:51	LE	SM19 5310B/SW 9060A
Dissolved Inorganic Carbon [a]	5.3	2.0	1.0	mg/l	1	12/24/08 17:27	LE	SM20 5310B, 9060M
Dissolved Organic Carbon	45.7	1.0	0.50	mg/l	1	12/24/08 17:27	LE	SM19 5310B/SW 9060A
Sulfate	1.0 U	2.0	1.0	mg/l	1	12/20/08 01:14	MV	EPA 300/SW846 9056
Sulfide	1.6	1.0	0.60	mg/l	1	12/22/08	LE	SM20 4500S F

(a) Calculated as: Dissolved Carbon - Dissolved Organic Carbon

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-100D		
Lab Sample ID:	F62293-11	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J043810.D	1	12/25/08	JG	n/a	n/a	VJ2710
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

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I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-100D		
Lab Sample ID:	F62293-11	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-100D		
Lab Sample ID:	F62293-11	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-100D		
Lab Sample ID:	F62293-11	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA047103.D	1	12/22/08	FEA	12/19/08	OP27528	GAA1888
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.95 U	1.9	0.95	ug/l	
208-96-8	Acenaphthylene	0.95 U	1.9	0.95	ug/l	
120-12-7	Anthracene	0.95 U	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.095 U	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.95 U	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.95 U	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.95 U	1.9	0.95	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		43-121%
92-94-4	p-Terphenyl	62%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-100D		
Lab Sample ID:	F62293-11	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53868.D	1	12/23/08	SL	12/19/08	OP27527	GIJ1911
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	98%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-100D		
Lab Sample ID:	F62293-11	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Dissolved Carbon	40.7	1.0	0.50	mg/l	1	12/22/08 12:58	LE	SM19 5310B/SW 9060A
Dissolved Inorganic Carbon [a]	35.5	2.0	1.0	mg/l	1	12/24/08 17:45	LE	SM20 5310B, 9060M
Dissolved Organic Carbon	5.2	1.0	0.50	mg/l	1	12/24/08 17:45	LE	SM19 5310B/SW 9060A
Sulfate	1.0 U	2.0	1.0	mg/l	1	12/20/08 01:36	MV	EPA 300/SW846 9056
Sulfide	2.9	1.0	0.60	mg/l	1	12/22/08	LE	SM20 4500S F

(a) Calculated as: Dissolved Carbon - Dissolved Organic Carbon

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-113S		
Lab Sample ID:	F62293-12	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C060051.D	200	12/26/08	AJ	n/a	n/a	VC2433
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	2000 U	5000	2000	ug/l	
107-02-8	Acrolein	1000 U	4000	1000	ug/l	
107-13-1	Acrylonitrile	400 U	2000	400	ug/l	
71-43-2	Benzene	10800	200	80	ug/l	
108-86-1	Bromobenzene	52 U	200	52	ug/l	
74-97-5	Bromochloromethane	46 U	200	46	ug/l	
75-27-4	Bromodichloromethane	40 U	200	40	ug/l	
75-25-2	Bromoform	66 U	200	66	ug/l	
104-51-8	n-Butylbenzene	56 U	200	56	ug/l	
135-98-8	sec-Butylbenzene	50 U	200	50	ug/l	
98-06-6	tert-Butylbenzene	64 U	200	64	ug/l	
108-90-7	Chlorobenzene	44 U	200	44	ug/l	
75-00-3	Chloroethane	96 U	400	96	ug/l	
67-66-3	Chloroform	56 U	200	56	ug/l	
95-49-8	o-Chlorotoluene	50 U	200	50	ug/l	
106-43-4	p-Chlorotoluene	42 U	200	42	ug/l	
110-75-8	2-Chloroethyl vinyl ether	200 U	1000	200	ug/l	
75-15-0	Carbon disulfide	80 U	400	80	ug/l	
56-23-5	Carbon tetrachloride	44 U	200	44	ug/l	
75-34-3	1,1-Dichloroethane	48 U	200	48	ug/l	
75-35-4	1,1-Dichloroethylene	110 U	200	110	ug/l	
563-58-6	1,1-Dichloropropene	46 U	200	46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	64 U	400	64	ug/l	
106-93-4	1,2-Dibromoethane	56 U	200	56	ug/l	
107-06-2	1,2-Dichloroethane	68 U	200	68	ug/l	
78-87-5	1,2-Dichloropropane	42 U	200	42	ug/l	
142-28-9	1,3-Dichloropropane	52 U	200	52	ug/l	
594-20-7	2,2-Dichloropropane	56 U	200	56	ug/l	
124-48-1	Dibromochloromethane	40 U	200	40	ug/l	
75-71-8	Dichlorodifluoromethane	200 U	400	200	ug/l	
156-59-2	cis-1,2-Dichloroethylene	40 U	200	40	ug/l	
10061-01-5	cis-1,3-Dichloropropene	42 U	200	42	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-113S		
Lab Sample ID:	F62293-12	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	46 U	200	46	ug/l	
95-50-1	o-Dichlorobenzene	40 U	200	40	ug/l	
106-46-7	p-Dichlorobenzene	44 U	200	44	ug/l	
156-60-5	trans-1,2-Dichloroethylene	90 U	200	90	ug/l	
10061-02-6	trans-1,3-Dichloropropene	42 U	200	42	ug/l	
100-41-4	Ethylbenzene	155	200	86	ug/l	I
591-78-6	2-Hexanone	1000 U	2000	1000	ug/l	
87-68-3	Hexachlorobutadiene	140 U	400	140	ug/l	
98-82-8	Isopropylbenzene	40 U	200	40	ug/l	
99-87-6	p-Isopropyltoluene	64 U	200	64	ug/l	
108-10-1	4-Methyl-2-pentanone	400 U	1000	400	ug/l	
74-83-9	Methyl bromide	160 U	400	160	ug/l	
74-87-3	Methyl chloride	120 U	400	120	ug/l	
74-95-3	Methylene bromide	60 U	400	60	ug/l	
75-09-2	Methylene chloride [b]	509	1000	200	ug/l	I
78-93-3	Methyl ethyl ketone	400 U	1000	400	ug/l	
1634-04-4	Methyl Tert Butyl Ether	52 U	200	52	ug/l	
91-20-3	Naphthalene	200 U	1000	200	ug/l	
103-65-1	n-Propylbenzene	50 U	200	50	ug/l	
100-42-5	Styrene	72 U	200	72	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	40 U	200	40	ug/l	
71-55-6	1,1,1-Trichloroethane	66 U	200	66	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	42 U	200	42	ug/l	
79-00-5	1,1,2-Trichloroethane	52 U	200	52	ug/l	
87-61-6	1,2,3-Trichlorobenzene	100 U	200	100	ug/l	
96-18-4	1,2,3-Trichloropropane	68 U	400	68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	100 U	200	100	ug/l	
95-63-6	1,2,4-Trimethylbenzene	138	400	44	ug/l	I
108-67-8	1,3,5-Trimethylbenzene	47.2	400	40	ug/l	I
127-18-4	Tetrachloroethylene	44 U	200	44	ug/l	
108-88-3	Toluene	70 U	200	70	ug/l	
79-01-6	Trichloroethylene	64 U	200	64	ug/l	
75-69-4	Trichlorofluoromethane	100 U	400	100	ug/l	
75-01-4	Vinyl chloride	60 U	200	60	ug/l	
108-05-4	Vinyl Acetate	720 U	2000	720	ug/l	
	m,p-Xylene	587	400	160	ug/l	
95-47-6	o-Xylene	576	200	74	ug/l	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit = PQL V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-113S		
Lab Sample ID:	F62293-12	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	87%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	92%		84-120%

(a) CCV outside of control limits; results may be biased low.
(b) Suspected laboratory contaminant.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-113S		
Lab Sample ID:	F62293-12	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA047104.D	1	12/22/08	FEA	12/19/08	OP27528	GAA1888
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	37.1	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	1.2	1.9	0.48	ug/l	I
91-57-6	2-Methylnaphthalene	1.8	1.9	0.48	ug/l	I
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		43-121%
92-94-4	p-Terphenyl	89%		30-122%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-113S		
Lab Sample ID:	F62293-12	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53884.D	2	12/23/08	SL	12/19/08	OP27527	GIJ1912
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	1.97	0.48	0.32	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-61I		
Lab Sample ID:	F62293-13	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C060039.D	1	12/26/08	AJ	n/a	n/a	VC2433
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	3.8	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25	1.0	0.25	ug/l	I
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
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I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-61I		
Lab Sample ID:	F62293-13	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	1.5	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	1.3	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	12.2	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	1.3	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	15.6	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	5.3	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	3.0	2.0	0.78	ug/l	
95-47-6	o-Xylene	3.2	1.0	0.37	ug/l	

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L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-61I		
Lab Sample ID:	F62293-13	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	90%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	88%		84-120%

(a) CCV outside of control limits; results may be biased low.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-61I		
Lab Sample ID:	F62293-13	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA047105.D	1	12/22/08	FEA	12/19/08	OP27528	GAA1888
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.95 U	1.9	0.95	ug/l	
208-96-8	Acenaphthylene	0.95 U	1.9	0.95	ug/l	
120-12-7	Anthracene	0.95 U	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.095 U	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.95 U	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	6.3	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	0.93	1.9	0.48	ug/l	I
91-57-6	2-Methylnaphthalene	1.3	1.9	0.48	ug/l	I
85-01-8	Phenanthrene	0.95 U	1.9	0.95	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		43-121%
92-94-4	p-Terphenyl	72%		30-122%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-61I		
Lab Sample ID:	F62293-13	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53870.D	1	12/23/08	SL	12/19/08	OP27527	GIJ1911
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.459	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-61I		
Lab Sample ID:	F62293-13	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Dissolved Carbon	88.8	1.0	0.50	mg/l	1	12/22/08 13:06	LE	SM19 5310B/SW 9060A
Dissolved Inorganic Carbon [a]	14.0	2.0	1.0	mg/l	1	12/24/08 18:00	LE	SM20 5310B, 9060M
Dissolved Organic Carbon	74.8	1.0	0.50	mg/l	1	12/24/08 18:00	LE	SM19 5310B/SW 9060A
Sulfate	1.0 U	2.0	1.0	mg/l	1	12/20/08 01:59	MV	EPA 300/SW846 9056
Sulfide	0.60 U	1.0	0.60	mg/l	1	12/22/08	LE	SM20 4500S F

(a) Calculated as: Dissolved Carbon - Dissolved Organic Carbon

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-95S		
Lab Sample ID:	F62293-14	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C060040.D	1	12/26/08	AJ	n/a	n/a	VC2433
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-95S		
Lab Sample ID:	F62293-14	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-95S		
Lab Sample ID:	F62293-14	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		87-116%
17060-07-0	1,2-Dichloroethane-D4	87%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	92%		84-120%

(a) CCV outside of control limits; results may be biased low.

U = Not detected MDL - Method Detection Limit
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V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-95S		
Lab Sample ID:	F62293-14	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA047106.D	1	12/22/08	FEA	12/19/08	OP27528	GAA1888
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.95 U	1.9	0.95	ug/l	
208-96-8	Acenaphthylene	0.95 U	1.9	0.95	ug/l	
120-12-7	Anthracene	0.95 U	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.095 U	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.95 U	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.95 U	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.95 U	1.9	0.95	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		43-121%
92-94-4	p-Terphenyl	85%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
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I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-95S		
Lab Sample ID:	F62293-14	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53871.D	1	12/23/08	SL	12/19/08	OP27527	GIJ1911
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.17 U	0.25	0.17	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-95S		
Lab Sample ID:	F62293-14	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Dissolved Carbon	13.4	1.0	0.50	mg/l	1	12/22/08 13:16	LE	SM19 5310B/SW 9060A
Dissolved Inorganic Carbon [a]	10.0	2.0	1.0	mg/l	1	12/24/08 18:26	LE	SM20 5310B, 9060M
Dissolved Organic Carbon	3.4	1.0	0.50	mg/l	1	12/24/08 18:26	LE	SM19 5310B/SW 9060A
Sulfate	11.6	2.0	1.0	mg/l	1	12/20/08 02:21	MV	EPA 300/SW846 9056
Sulfide	1.7	1.0	0.60	mg/l	1	12/22/08	LE	SM20 4500S F

(a) Calculated as: Dissolved Carbon - Dissolved Organic Carbon

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-98S		
Lab Sample ID:	F62293-15	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J043930.D	1	12/29/08	KW	n/a	n/a	VJ2715
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	71.7	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-98S		
Lab Sample ID:	F62293-15	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.94	1.0	0.43	ug/l	I
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.28	1.0	0.20	ug/l	I
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.8	5.0	1.0	ug/l	I
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	2.7	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.78	2.0	0.20	ug/l	I
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	2.0	2.0	0.78	ug/l	
95-47-6	o-Xylene	6.7	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-98S		
Lab Sample ID:	F62293-15	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-98S		
Lab Sample ID:	F62293-15	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA047107.D	1	12/22/08	FEA	12/19/08	OP27528	GAA1888
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.95 U	1.9	0.95	ug/l	
208-96-8	Acenaphthylene	0.95 U	1.9	0.95	ug/l	
120-12-7	Anthracene	0.95 U	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.095 U	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.95 U	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	2.3	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.95 U	1.9	0.95	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		43-121%
92-94-4	p-Terphenyl	49%		30-122%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-98S		
Lab Sample ID:	F62293-15	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53885.D	1	12/23/08	SL	12/19/08	OP27527	GIJ1912
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.239	0.24	0.16	mg/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	FIELD BLANK		
Lab Sample ID:	F62293-16	**Date Sampled:**	12/16/08
Matrix:	AQ - Field Blank Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C060041.D	1	12/26/08	AJ	n/a	n/a	VC2433
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FIELD BLANK		
Lab Sample ID:	F62293-16	**Date Sampled:**	12/16/08
Matrix:	AQ - Field Blank Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride [b]	1.2	5.0	1.0	ug/l	I
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FIELD BLANK		
Lab Sample ID:	F62293-16	**Date Sampled:**	12/16/08
Matrix:	AQ - Field Blank Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	88%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	91%		84-120%

(a) CCV outside of control limits; results may be biased low.
(b) Suspected laboratory contaminant.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	FIELD BLANK		
Lab Sample ID:	F62293-16	**Date Sampled:**	12/16/08
Matrix:	AQ - Field Blank Water	**Date Received:**	12/17/08
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA047110.D	1	12/22/08	FEA	12/19/08	OP27528	GAA1888
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	1.0 U	2.0	1.0	ug/l	
208-96-8	Acenaphthylene	1.0 U	2.0	1.0	ug/l	
120-12-7	Anthracene	1.0 U	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	0.050 U	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	0.050 U	0.20	0.050	ug/l	
205-99-2	Benzo(b)fluoranthene	0.050 U	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.10 U	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	0.050 U	0.20	0.050	ug/l	
218-01-9	Chrysene	0.50 U	2.0	0.50	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.050 U	0.20	0.050	ug/l	
206-44-0	Fluoranthene	0.50 U	2.0	0.50	ug/l	
86-73-7	Fluorene	1.0 U	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.050 U	0.20	0.050	ug/l	
91-20-3	Naphthalene	1.0 U	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	0.50 U	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	0.50 U	2.0	0.50	ug/l	
85-01-8	Phenanthrene	1.0 U	2.0	1.0	ug/l	
129-00-0	Pyrene	0.50 U	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		43-121%
92-94-4	p-Terphenyl	70%		30-122%

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit = PQL V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	FIELD BLANK		
Lab Sample ID:	F62293-16	**Date Sampled:**	12/16/08
Matrix:	AQ - Field Blank Water	**Date Received:**	12/17/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53873.D	1	12/23/08	SL	12/19/08	OP27527	GIJ1911
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	103%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-110D		
Lab Sample ID:	F62293-17	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C060052.D	5	12/26/08	AJ	n/a	n/a	VC2433
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	50 U	130	50	ug/l	
107-02-8	Acrolein	25 U	100	25	ug/l	
107-13-1	Acrylonitrile	10 U	50	10	ug/l	
71-43-2	Benzene	175	5.0	2.0	ug/l	
108-86-1	Bromobenzene	1.3 U	5.0	1.3	ug/l	
74-97-5	Bromochloromethane	1.2 U	5.0	1.2	ug/l	
75-27-4	Bromodichloromethane	1.0 U	5.0	1.0	ug/l	
75-25-2	Bromoform	1.7 U	5.0	1.7	ug/l	
104-51-8	n-Butylbenzene	1.4 U	5.0	1.4	ug/l	
135-98-8	sec-Butylbenzene	1.3 U	5.0	1.3	ug/l	
98-06-6	tert-Butylbenzene	1.6 U	5.0	1.6	ug/l	
108-90-7	Chlorobenzene	1.1 U	5.0	1.1	ug/l	
75-00-3	Chloroethane	2.4 U	10	2.4	ug/l	
67-66-3	Chloroform	1.4 U	5.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	1.3 U	5.0	1.3	ug/l	
106-43-4	p-Chlorotoluene	1.1 U	5.0	1.1	ug/l	
110-75-8	2-Chloroethyl vinyl ether	5.0 U	25	5.0	ug/l	
75-15-0	Carbon disulfide	2.0 U	10	2.0	ug/l	
56-23-5	Carbon tetrachloride	1.1 U	5.0	1.1	ug/l	
75-34-3	1,1-Dichloroethane	1.2 U	5.0	1.2	ug/l	
75-35-4	1,1-Dichloroethylene	2.7 U	5.0	2.7	ug/l	
563-58-6	1,1-Dichloropropene	1.2 U	5.0	1.2	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	1.6 U	10	1.6	ug/l	
106-93-4	1,2-Dibromoethane	1.4 U	5.0	1.4	ug/l	
107-06-2	1,2-Dichloroethane	1.7 U	5.0	1.7	ug/l	
78-87-5	1,2-Dichloropropane	1.1 U	5.0	1.1	ug/l	
142-28-9	1,3-Dichloropropane	1.3 U	5.0	1.3	ug/l	
594-20-7	2,2-Dichloropropane	1.4 U	5.0	1.4	ug/l	
124-48-1	Dibromochloromethane	1.0 U	5.0	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	5.0 U	10	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.0 U	5.0	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	1.1 U	5.0	1.1	ug/l	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit = PQL V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-110D		
Lab Sample ID:	F62293-17	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	1.2 U	5.0	1.2	ug/l	
95-50-1	o-Dichlorobenzene	1.0 U	5.0	1.0	ug/l	
106-46-7	p-Dichlorobenzene	1.1 U	5.0	1.1	ug/l	
156-60-5	trans-1,2-Dichloroethylene	2.3 U	5.0	2.3	ug/l	
10061-02-6	trans-1,3-Dichloropropene	1.1 U	5.0	1.1	ug/l	
100-41-4	Ethylbenzene	2.2 U	5.0	2.2	ug/l	
591-78-6	2-Hexanone	25 U	50	25	ug/l	
87-68-3	Hexachlorobutadiene	3.5 U	10	3.5	ug/l	
98-82-8	Isopropylbenzene	1.0 U	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	1.6 U	5.0	1.6	ug/l	
108-10-1	4-Methyl-2-pentanone	10 U	25	10	ug/l	
74-83-9	Methyl bromide	3.9 U	10	3.9	ug/l	
74-87-3	Methyl chloride	3.1 U	10	3.1	ug/l	
74-95-3	Methylene bromide	1.5 U	10	1.5	ug/l	
75-09-2	Methylene chloride [b]	13.4	25	5.0	ug/l	I
78-93-3	Methyl ethyl ketone	10 U	25	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.3 U	5.0	1.3	ug/l	
91-20-3	Naphthalene	5.0 U	25	5.0	ug/l	
103-65-1	n-Propylbenzene	1.3 U	5.0	1.3	ug/l	
100-42-5	Styrene	1.8 U	5.0	1.8	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U	5.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	1.7 U	5.0	1.7	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	1.1 U	5.0	1.1	ug/l	
79-00-5	1,1,2-Trichloroethane	1.3 U	5.0	1.3	ug/l	
87-61-6	1,2,3-Trichlorobenzene	2.5 U	5.0	2.5	ug/l	
96-18-4	1,2,3-Trichloropropane	1.7 U	10	1.7	ug/l	
120-82-1	1,2,4-Trichlorobenzene	2.5 U	5.0	2.5	ug/l	
95-63-6	1,2,4-Trimethylbenzene	8.6	10	1.1	ug/l	I
108-67-8	1,3,5-Trimethylbenzene	2.5	10	1.0	ug/l	I
127-18-4	Tetrachloroethylene	1.1 U	5.0	1.1	ug/l	
108-88-3	Toluene	1.8 U	5.0	1.8	ug/l	
79-01-6	Trichloroethylene	1.6 U	5.0	1.6	ug/l	
75-69-4	Trichlorofluoromethane	2.5 U	10	2.5	ug/l	
75-01-4	Vinyl chloride	1.5 U	5.0	1.5	ug/l	
108-05-4	Vinyl Acetate	18 U	50	18	ug/l	
	m,p-Xylene	3.9 U	10	3.9	ug/l	
95-47-6	o-Xylene	10.4	5.0	1.9	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-110D		
Lab Sample ID:	F62293-17	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	88%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	90%		84-120%

(a) CCV outside of control limits; results may be biased low.
(b) Suspected laboratory contaminant.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-110D		
Lab Sample ID:	F62293-17	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA047111.D	1	12/22/08	FEA	12/19/08	OP27528	GAA1888
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.99 U	2.0	0.99	ug/l	
208-96-8	Acenaphthylene	0.99 U	2.0	0.99	ug/l	
120-12-7	Anthracene	0.99 U	2.0	0.99	ug/l	
56-55-3	Benzo(a)anthracene	0.050 U	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	0.050 U	0.20	0.050	ug/l	
205-99-2	Benzo(b)fluoranthene	0.050 U	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.099 U	0.20	0.099	ug/l	
207-08-9	Benzo(k)fluoranthene	0.050 U	0.20	0.050	ug/l	
218-01-9	Chrysene	0.50 U	2.0	0.50	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.050 U	0.20	0.050	ug/l	
206-44-0	Fluoranthene	0.50 U	2.0	0.50	ug/l	
86-73-7	Fluorene	0.99 U	2.0	0.99	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.050 U	0.20	0.050	ug/l	
91-20-3	Naphthalene	4.5	2.0	0.99	ug/l	
90-12-0	1-Methylnaphthalene	0.50 U	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	0.50 U	2.0	0.50	ug/l	
85-01-8	Phenanthrene	0.99 U	2.0	0.99	ug/l	
129-00-0	Pyrene	0.50 U	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		43-121%
92-94-4	p-Terphenyl	49%		30-122%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-076-110D		
Lab Sample ID:	F62293-17	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/17/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53874.D	1	12/23/08	SL	12/19/08	OP27527	GIJ1911
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.287	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F62293-18	**Date Sampled:**	12/16/08
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C060042.D	1	12/26/08	AJ	n/a	n/a	VC2433
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F62293-18	**Date Sampled:**	12/16/08
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F62293-18	**Date Sampled:**	12/16/08
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	88%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	91%		84-120%

(a) CCV outside of control limits; results may be biased low.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F62293-19	**Date Sampled:**	12/16/08
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C060043.D	1	12/26/08	AJ	n/a	n/a	VC2433
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F62293-19	**Date Sampled:**	12/16/08
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F62293-19	**Date Sampled:**	12/16/08
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/17/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	89%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	91%		84-120%

(a) CCV outside of control limits; results may be biased low.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

ACCUTEST 4705

Accutest Laboratories Southeast
Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # F62293 PAGE 1 OF 2
Accutest Quote #

Client / Reporting Information
Company Name: Solutions-IES
Address: 1101 Nowell Rd
City: Raleigh State: NC Zip: 27607
Project Contact: Carrie Ruhlman E-mail: Ruhlmanc@solutions-ies.com
Phone#: (919) 873-1060
Sampler(s) Name(s) (Printed)

Project Information
Project Name: Cecil Field (NFF)
Street
City: Jacksonville State: Fl
Project #: 8030.08A2.NAVF
Fax #
Client Purchase Order #

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH/ZnAc	DI Water	MeOH	SW-846/8310	TRPH FL-PRO	TIC 415.2	Sulfate 300.0	Sulfide 376.2	TOC 415.1	VOC 8260B					
1	CEF-076-104D	12/15	1245	LH	GW	13			X			X	X			X	X	X	X	X	X	X					
2	CEF-076-93S		1312	DM		7			X			X				X	X					X					
3	CEF-076-94S		1320	JS		7			X			X				X	X					X					
4	CEF-076-49S		1530	LH		13			X			X	X			X	X	X	X	X	X	X					
5	CEF-076-70I		1530	JD		7			X			X				X	X					X					
6	CEF-076-57S		1455	JS		13			X			X	X			X	X	X	X	X	X	X					
7	CEF-076-50I		1645	LH		7			X			X				X	X					X					
8	CEF-076-99D	12/16	0910	JS		13			X			X	X			X	X	X	X	X	X	X					
9	CEF-372-13R		1043	JS		7			X			X				X	X					X					
10	CEF-076-116D		0905	LH		13			X			X	X			X	X	X	X	X	X	X					
11	CEF-076-100D		1100	LH		13			X			X	X			X	X	X	X	X	X	X					
12	CEF-076-113S		1020	JD		7			X			X				X	X					X					

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

LAB USE ONLY

TURNAROUND TIME (Business Days)
- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Approved By: / Rush Code

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information
- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks
There were no unpreserved Amber VOA's for TIC 415.2 Spoke w/ Aaron at lab + he said to use SVOC 1L Amber to get sample from.

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
Sam Marshall	12/16 1445	1 Elizabeth Lewis Accutest	12/16/08 1445 Elizabeth Lewis Accutest	12/16/08 1905	4 12.17.08 0820
Relinquished by:	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 2.0 2.6 2.4 2.0

F62293: Chain of Custody
Page 1 of 4

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST.

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TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # F62293 PAGE 2 OF 2
Accutest Quote # ASR #

Client / Reporting Information

Company Name: Solutions-IES
Address: 1101 Nowell Rd
City: Raleigh State: NC Zip: 27607
Project Contact: Carrie Ruhlman E-mail:
Phone#: (919) 873-1060
Sampler(s) Name(s) (Printed):

Project Information

Project Name: Cecil Field (NFF)
Street:
City: Jacksonvill State: Fl
Project #: 8030.08A2.NAVP
Fax #:
Client Purchase Order #:

Analytical Information / **Matrix Codes**

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	H2SO4	NaOH+ZnAc	DI Water	MeOH	8260 4oz -8310	TRPH FL-PRO	TIC 415.2	Sulfate 300.0	Sulfide 376.2	TOC 415.1	VOC 8260B					LAB USE ONLY
13	CEF-076-61I	12/16	1140	JD	GW	13			X		X	X			X	X	X	X	X	X	X					
14	CEF-076-95S		1245	LH		13			X		X	X			X	X	X	X	X	X	X					
15	CEF-076-98D		1243	JS		7			X		X				X	X					X					

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Date Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

There were no unpreserved 40 mL Amber VOAs for TIC.415.2 Spoke w/ Aaron at lab + he said to use 500 1 L Amber to get sample from

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
Dan Marshall	12/16 1445	Elizabeth [illegible] Accutest 12/16/08 1445	Elizabeth [illegible] Accutest	12/16/08 1905	12.17.08 0820
Relinquished by:	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 2.0 2.6 2.4 2.0

4.1 4

Accutest Laboratories Southeast
Chain of Custody

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TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # F62293 Page 3 OF 3
Accutest Quote #
SDG F#

Client / Reporting Information

Company Name: Solutions-IES
Address: 1101 Nowell Rd
City: Raleigh State: NC Zip: 27607
Project Contact: Carrie Publman E-mail:
Phone#: (919) 873-1060
Sampler(s) Name(s) (Printed):

Project Information

Project Name: Cecil NFF
Street:
City: Jacksonville State: Fl
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MeOH	SW-846/8310	TRPH FL-PRO	VOC 8260B
16	~~Equipm~~ Field Blank		1455						X			X				X	X	X
17	CEF-076-110 D		1352						X			X				X	X	X
18	Trip Blank								X									X
	~~Temp Blank~~ Om																	
	~~Temp Blank~~ Om																	
19	Trip Blank								X									X

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

LAB USE ONLY

TURNAROUND TIME (Business Days)

- ☐ 10 Days Standard
- ☐ 7 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ OTHER

Approved By: / Rush Code

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Trip Blank are only for coolers w/ VOC's

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 Raven Marshall	12/16 1545	2 Elizabeth Hertz Accutest 12/16/08 1545	3 Elizabeth Hertz Accutest 12/16/08 1820		4 Carter 12.17.08 0810
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 2.0 2.1 2.1 2.0

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F62293 CLIENT: Solutions - IES PROJECT: Cecil field

DATE/TIME RECEIVED: 12.17.08 08:10 # OF COOLERS RECEIVED: 9 COOLER TEMPS: 2.0 2.6 2.4 2.0 1.6 2.4 1.8 2.4 2.4

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS:

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE RECEIVED IN COOLER

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- ET. [x] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- [x] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [x] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] ID'S ON COC DOES NOT MATCH LABEL(S)
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

MISC. INFORMATION

NUMBER OF ENCORES ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

NUMBER OF LAB FILTERED METALS ? Ø

SUMMARY OF COMMENTS: Samp #6 time on labels 1533 coc 1455, Samp #12 recieved 1 Amber (8310) no time on label coc 1020, Samp #3 recieved 1 Amber (8310) no time on label coc 1320, recieved 9.78, Samp 14 only recieved 2 sulfides, Samp #2 recieved 1 vial (8260) empty, Samp #6 recieved 1 (TOC) vial less than 1/4 full

TECHNICIAN SIGNATURE/DATE E.T. 12.17.08 TECHNICIAN SIGNATURE/DATE [illegible] 12/17/08

4.1

4

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC2432-MB	C060003.D	1	12/24/08	AJ	n/a	n/a	VC2432

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-1, F62293-2, F62293-3, F62293-4, F62293-5, F62293-7, F62293-8

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.40	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	

Method Blank Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC2432-MB	C060003.D	1	12/24/08	AJ	n/a	n/a	VC2432

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-1, F62293-2, F62293-3, F62293-4, F62293-5, F62293-7, F62293-8

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
591-78-6	2-Hexanone	ND	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.8	5.0	1.0	ug/l	J
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.25	ug/l	
100-42-5	Styrene	ND	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.6	ug/l	
	m,p-Xylene	ND	2.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.37	ug/l	

Method Blank Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC2432-MB	C060003.D	1	12/24/08	AJ	n/a	n/a	VC2432

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-1, F62293-2, F62293-3, F62293-4, F62293-5, F62293-7, F62293-8

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	87-116%
17060-07-0	1,2-Dichloroethane-D4	90%	76-127%
2037-26-5	Toluene-D8	100%	86-112%
460-00-4	4-Bromofluorobenzene	98%	84-120%

Method Blank Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ2710-MB	J043793.D	1	12/25/08	JG	n/a	n/a	VJ2710

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-10, F62293-11

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.40	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	

Method Blank Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ2710-MB	J043793.D	1	12/25/08	JG	n/a	n/a	VJ2710

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-10, F62293-11

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
591-78-6	2-Hexanone	ND	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.30	ug/l	
75-09-2	Methylene chloride	10	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.25	ug/l	
100-42-5	Styrene	ND	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.65	1.0	0.50	ug/l	J
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.6	ug/l	
	m,p-Xylene	ND	2.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.37	ug/l	

Method Blank Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ2710-MB	J043793.D	1	12/25/08	JG	n/a	n/a	VJ2710

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-10, F62293-11

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	87-116%
17060-07-0	1,2-Dichloroethane-D4	97%	76-127%
2037-26-5	Toluene-D8	105%	86-112%
460-00-4	4-Bromofluorobenzene	103%	84-120%

Method Blank Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC2433-MB	C060034.D	1	12/26/08	AJ	n/a	n/a	VC2433

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-12, F62293-13, F62293-14, F62293-16, F62293-17, F62293-18, F62293-19

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.40	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	

Method Blank Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC2433-MB	C060034.D	1	12/26/08	AJ	n/a	n/a	VC2433

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-12, F62293-13, F62293-14, F62293-16, F62293-17, F62293-18, F62293-19

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
591-78-6	2-Hexanone	ND	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.25	ug/l	
100-42-5	Styrene	ND	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.6	ug/l	
	m,p-Xylene	ND	2.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.37	ug/l	

Method Blank Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC2433-MB	C060034.D	1	12/26/08	AJ	n/a	n/a	VC2433

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-12, F62293-13, F62293-14, F62293-16, F62293-17, F62293-18, F62293-19

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	87-116%
17060-07-0	1,2-Dichloroethane-D4	89%	76-127%
2037-26-5	Toluene-D8	99%	86-112%
460-00-4	4-Bromofluorobenzene	99%	84-120%

Method Blank Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ2715-MB	J043910.D	1	12/29/08	KW	n/a	n/a	VJ2715

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-6, F62293-9, F62293-15

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.40	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	

Method Blank Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ2715-MB	J043910.D	1	12/29/08	KW	n/a	n/a	VJ2715

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-6, F62293-9, F62293-15

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
591-78-6	2-Hexanone	ND	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.85	2.0	0.69	ug/l	J
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.25	ug/l	
100-42-5	Styrene	ND	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.54	1.0	0.50	ug/l	J
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.6	ug/l	
	m,p-Xylene	ND	2.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.37	ug/l	

Method Blank Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ2715-MB	J043910.D	1	12/29/08	KW	n/a	n/a	VJ2715

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-6, F62293-9, F62293-15

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	87-116%
17060-07-0	1,2-Dichloroethane-D4	101%	76-127%
2037-26-5	Toluene-D8	102%	86-112%
460-00-4	4-Bromofluorobenzene	107%	84-120%

Blank Spike Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC2432-BS	C060002.D	1	12/24/08	AJ	n/a	n/a	VC2432

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-1, F62293-2, F62293-3, F62293-4, F62293-5, F62293-7, F62293-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	65.0	52*	59-134
107-02-8	Acrolein	125	16.6	13*	33-157
107-13-1	Acrylonitrile	125	119	95	62-124
71-43-2	Benzene	25	25.7	103	83-124
108-86-1	Bromobenzene	25	24.5	98	83-115
74-97-5	Bromochloromethane	25	22.4	90	78-112
75-27-4	Bromodichloromethane	25	21.5	86	76-116
75-25-2	Bromoform	25	22.2	89	68-128
104-51-8	n-Butylbenzene	25	26.3	105	84-124
135-98-8	sec-Butylbenzene	25	27.3	109	86-127
98-06-6	tert-Butylbenzene	25	25.1	100	83-126
108-90-7	Chlorobenzene	25	25.5	102	87-115
75-00-3	Chloroethane	25	25.1	100	54-166
67-66-3	Chloroform	25	25.3	101	85-123
95-49-8	o-Chlorotoluene	25	25.9	104	84-121
106-43-4	p-Chlorotoluene	25	25.0	100	84-120
110-75-8	2-Chloroethyl vinyl ether	125	127	102	63-125
75-15-0	Carbon disulfide	25	24.6	98	67-147
56-23-5	Carbon tetrachloride	25	27.1	108	74-139
75-34-3	1,1-Dichloroethane	25	25.9	104	82-127
75-35-4	1,1-Dichloroethylene	25	30.5	122	75-133
563-58-6	1,1-Dichloropropene	25	26.8	107	87-127
96-12-8	1,2-Dibromo-3-chloropropane	25	19.7	79	61-118
106-93-4	1,2-Dibromoethane	25	20.4	82	80-115
107-06-2	1,2-Dichloroethane	25	22.8	91	76-122
78-87-5	1,2-Dichloropropane	25	24.5	98	81-120
142-28-9	1,3-Dichloropropane	25	22.5	90	81-113
594-20-7	2,2-Dichloropropane	25	26.9	108	77-138
124-48-1	Dibromochloromethane	25	23.2	93	74-116
75-71-8	Dichlorodifluoromethane	25	16.8	67	34-158
156-59-2	cis-1,2-Dichloroethylene	25	23.9	96	81-114
10061-01-5	cis-1,3-Dichloropropene	25	25.3	101	83-119
541-73-1	m-Dichlorobenzene	25	25.9	104	86-115
95-50-1	o-Dichlorobenzene	25	25.7	103	85-115
106-46-7	p-Dichlorobenzene	25	25.4	102	87-113
156-60-5	trans-1,2-Dichloroethylene	25	25.9	104	82-126

Blank Spike Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC2432-BS	C060002.D	1	12/24/08	AJ	n/a	n/a	VC2432

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-1, F62293-2, F62293-3, F62293-4, F62293-5, F62293-7, F62293-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	26.0	104	87-123
100-41-4	Ethylbenzene	25	25.9	104	87-118
591-78-6	2-Hexanone	125	80.1	64	58-125
87-68-3	Hexachlorobutadiene	25	26.3	105	71-133
98-82-8	Isopropylbenzene	25	25.4	102	87-131
99-87-6	p-Isopropyltoluene	25	26.7	107	83-125
108-10-1	4-Methyl-2-pentanone	125	89.3	71	62-125
74-83-9	Methyl bromide	25	25.9	104	55-151
74-87-3	Methyl chloride	25	25.7	103	55-173
74-95-3	Methylene bromide	25	23.7	95	81-116
75-09-2	Methylene chloride	25	25.7	103	69-125
78-93-3	Methyl ethyl ketone	125	82.5	66	61-127
1634-04-4	Methyl Tert Butyl Ether	25	20.2	81	75-116
91-20-3	Naphthalene	25	21.3	85	59-125
103-65-1	n-Propylbenzene	25	26.1	104	86-125
100-42-5	Styrene	25	25.6	102	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	24.2	97	81-119
71-55-6	1,1,1-Trichloroethane	25	25.8	103	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	21.7	87	71-120
79-00-5	1,1,2-Trichloroethane	25	23.3	93	80-114
87-61-6	1,2,3-Trichlorobenzene	25	24.2	97	64-126
96-18-4	1,2,3-Trichloropropane	25	18.6	74*	77-115
120-82-1	1,2,4-Trichlorobenzene	25	25.5	102	68-123
95-63-6	1,2,4-Trimethylbenzene	25	25.8	103	82-120
108-67-8	1,3,5-Trimethylbenzene	25	26.1	104	83-123
127-18-4	Tetrachloroethylene	25	25.5	102	80-131
108-88-3	Toluene	25	26.0	104	86-116
79-01-6	Trichloroethylene	25	25.0	100	85-124
75-69-4	Trichlorofluoromethane	25	25.3	101	66-156
75-01-4	Vinyl chloride	25	25.3	101	57-153
108-05-4	Vinyl Acetate	125	187	150	38-159
	m,p-Xylene	50	52.0	104	86-121
95-47-6	o-Xylene	25	25.1	100	83-121

Blank Spike Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC2432-BS	C060002.D	1	12/24/08	AJ	n/a	n/a	VC2432

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-1, F62293-2, F62293-3, F62293-4, F62293-5, F62293-7, F62293-8

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	87-116%
17060-07-0	1,2-Dichloroethane-D4	95%	76-127%
2037-26-5	Toluene-D8	98%	86-112%
460-00-4	4-Bromofluorobenzene	96%	84-120%

Blank Spike Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ2710-BS	J043796.D	1	12/25/08	JG	n/a	n/a	VJ2710

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-10, F62293-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	68.2	55*	59-134
107-02-8	Acrolein	125	14.0	11*	33-157
107-13-1	Acrylonitrile	125	114	91	62-124
71-43-2	Benzene	25	27.2	109	83-124
108-86-1	Bromobenzene	25	25.9	104	83-115
74-97-5	Bromochloromethane	25	21.3	85	78-112
75-27-4	Bromodichloromethane	25	25.4	102	76-116
75-25-2	Bromoform	25	23.6	94	68-128
104-51-8	n-Butylbenzene	25	22.2	89	84-124
135-98-8	sec-Butylbenzene	25	23.9	96	86-127
98-06-6	tert-Butylbenzene	25	25.7	103	83-126
108-90-7	Chlorobenzene	25	26.2	105	87-115
75-00-3	Chloroethane	25	28.5	114	54-166
67-66-3	Chloroform	25	25.6	102	85-123
95-49-8	o-Chlorotoluene	25	24.6	98	84-121
106-43-4	p-Chlorotoluene	25	24.7	99	84-120
110-75-8	2-Chloroethyl vinyl ether	125	120	96	63-125
75-15-0	Carbon disulfide	25	21.8	87	67-147
56-23-5	Carbon tetrachloride	25	26.3	105	74-139
75-34-3	1,1-Dichloroethane	25	25.7	103	82-127
75-35-4	1,1-Dichloroethylene	25	25.2	101	75-133
563-58-6	1,1-Dichloropropene	25	24.4	98	87-127
96-12-8	1,2-Dibromo-3-chloropropane	25	23.0	92	61-118
106-93-4	1,2-Dibromoethane	25	25.2	101	80-115
107-06-2	1,2-Dichloroethane	25	26.5	106	76-122
78-87-5	1,2-Dichloropropane	25	25.8	103	81-120
142-28-9	1,3-Dichloropropane	25	24.6	98	81-113
594-20-7	2,2-Dichloropropane	25	24.7	99	77-138
124-48-1	Dibromochloromethane	25	24.8	99	74-116
75-71-8	Dichlorodifluoromethane	25	15.4	62	34-158
156-59-2	cis-1,2-Dichloroethylene	25	22.6	90	81-114
10061-01-5	cis-1,3-Dichloropropene	25	23.5	94	83-119
541-73-1	m-Dichlorobenzene	25	23.3	93	86-115
95-50-1	o-Dichlorobenzene	25	22.6	90	85-115
106-46-7	p-Dichlorobenzene	25	25.5	102	87-113
156-60-5	trans-1,2-Dichloroethylene	25	25.9	104	82-126

Blank Spike Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ2710-BS	J043796.D	1	12/25/08	JG	n/a	n/a	VJ2710

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-10, F62293-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	27.2	109	87-123
100-41-4	Ethylbenzene	25	26.7	107	87-118
591-78-6	2-Hexanone	125	80.8	65	58-125
87-68-3	Hexachlorobutadiene	25	23.6	94	71-133
98-82-8	Isopropylbenzene	25	24.5	98	87-131
99-87-6	p-Isopropyltoluene	25	24.4	98	83-125
108-10-1	4-Methyl-2-pentanone	125	112	90	62-125
74-83-9	Methyl bromide	25	25.0	100	55-151
74-87-3	Methyl chloride	25	24.5	98	55-173
74-95-3	Methylene bromide	25	26.4	106	81-116
75-09-2	Methylene chloride	25	28.2	113	69-125
78-93-3	Methyl ethyl ketone	125	92.6	74	61-127
1634-04-4	Methyl Tert Butyl Ether	25	21.9	88	75-116
91-20-3	Naphthalene	25	22.5	90	59-125
103-65-1	n-Propylbenzene	25	24.0	96	86-125
100-42-5	Styrene	25	23.0	92	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	25.9	104	81-119
71-55-6	1,1,1-Trichloroethane	25	24.6	98	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	23.2	93	71-120
79-00-5	1,1,2-Trichloroethane	25	24.1	96	80-114
87-61-6	1,2,3-Trichlorobenzene	25	19.7	79	64-126
96-18-4	1,2,3-Trichloropropane	25	21.7	87	77-115
120-82-1	1,2,4-Trichlorobenzene	25	20.8	83	68-123
95-63-6	1,2,4-Trimethylbenzene	25	24.2	97	82-120
108-67-8	1,3,5-Trimethylbenzene	25	25.2	101	83-123
127-18-4	Tetrachloroethylene	25	35.7	143*	80-131
108-88-3	Toluene	25	26.5	106	86-116
79-01-6	Trichloroethylene	25	27.2	109	85-124
75-69-4	Trichlorofluoromethane	25	21.9	88	66-156
75-01-4	Vinyl chloride	25	23.7	95	57-153
108-05-4	Vinyl Acetate	125	155	124	38-159
	m,p-Xylene	50	47.8	96	86-121
95-47-6	o-Xylene	25	24.3	97	83-121

Blank Spike Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ2710-BS	J043796.D	1	12/25/08	JG	n/a	n/a	VJ2710

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-10, F62293-11

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	93%	87-116%
17060-07-0	1,2-Dichloroethane-D4	103%	76-127%
2037-26-5	Toluene-D8	100%	86-112%
460-00-4	4-Bromofluorobenzene	105%	84-120%

Blank Spike Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC2433-BS	C060033.D	1	12/26/08	AJ	n/a	n/a	VC2433

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-12, F62293-13, F62293-14, F62293-16, F62293-17, F62293-18, F62293-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	60.5	48*	59-134
107-02-8	Acrolein	125	9.6	8*	33-157
107-13-1	Acrylonitrile	125	116	93	62-124
71-43-2	Benzene	25	25.2	101	83-124
108-86-1	Bromobenzene	25	23.6	94	83-115
74-97-5	Bromochloromethane	25	20.9	84	78-112
75-27-4	Bromodichloromethane	25	22.1	88	76-116
75-25-2	Bromoform	25	21.8	87	68-128
104-51-8	n-Butylbenzene	25	24.9	100	84-124
135-98-8	sec-Butylbenzene	25	26.4	106	86-127
98-06-6	tert-Butylbenzene	25	24.3	97	83-126
108-90-7	Chlorobenzene	25	24.5	98	87-115
75-00-3	Chloroethane	25	23.2	93	54-166
67-66-3	Chloroform	25	24.4	98	85-123
95-49-8	o-Chlorotoluene	25	24.6	98	84-121
106-43-4	p-Chlorotoluene	25	24.1	96	84-120
110-75-8	2-Chloroethyl vinyl ether	125	122	98	63-125
75-15-0	Carbon disulfide	25	23.7	95	67-147
56-23-5	Carbon tetrachloride	25	25.9	104	74-139
75-34-3	1,1-Dichloroethane	25	25.4	102	82-127
75-35-4	1,1-Dichloroethylene	25	28.8	115	75-133
563-58-6	1,1-Dichloropropene	25	25.6	102	87-127
96-12-8	1,2-Dibromo-3-chloropropane	25	18.7	75	61-118
106-93-4	1,2-Dibromoethane	25	20.2	81	80-115
107-06-2	1,2-Dichloroethane	25	21.8	87	76-122
78-87-5	1,2-Dichloropropane	25	24.3	97	81-120
142-28-9	1,3-Dichloropropane	25	22.3	89	81-113
594-20-7	2,2-Dichloropropane	25	25.4	102	77-138
124-48-1	Dibromochloromethane	25	23.2	93	74-116
75-71-8	Dichlorodifluoromethane	25	14.3	57	34-158
156-59-2	cis-1,2-Dichloroethylene	25	22.7	91	81-114
10061-01-5	cis-1,3-Dichloropropene	25	24.0	96	83-119
541-73-1	m-Dichlorobenzene	25	24.8	99	86-115
95-50-1	o-Dichlorobenzene	25	24.8	99	85-115
106-46-7	p-Dichlorobenzene	25	24.6	98	87-113
156-60-5	trans-1,2-Dichloroethylene	25	25.7	103	82-126

Blank Spike Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC2433-BS	C060033.D	1	12/26/08	AJ	n/a	n/a	VC2433

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-12, F62293-13, F62293-14, F62293-16, F62293-17, F62293-18, F62293-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	25.3	101	87-123
100-41-4	Ethylbenzene	25	25.1	100	87-118
591-78-6	2-Hexanone	125	80.0	64	58-125
87-68-3	Hexachlorobutadiene	25	25.6	102	71-133
98-82-8	Isopropylbenzene	25	24.4	98	87-131
99-87-6	p-Isopropyltoluene	25	25.9	104	83-125
108-10-1	4-Methyl-2-pentanone	125	90.4	72	62-125
74-83-9	Methyl bromide	25	24.4	98	55-151
74-87-3	Methyl chloride	25	23.1	92	55-173
74-95-3	Methylene bromide	25	22.7	91	81-116
75-09-2	Methylene chloride	25	25.1	100	69-125
78-93-3	Methyl ethyl ketone	125	80.1	64	61-127
1634-04-4	Methyl Tert Butyl Ether	25	19.8	79	75-116
91-20-3	Naphthalene	25	21.2	85	59-125
103-65-1	n-Propylbenzene	25	25.4	102	86-125
100-42-5	Styrene	25	25.5	102	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	23.7	95	81-119
71-55-6	1,1,1-Trichloroethane	25	25.1	100	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	21.9	88	71-120
79-00-5	1,1,2-Trichloroethane	25	23.3	93	80-114
87-61-6	1,2,3-Trichlorobenzene	25	22.6	90	64-126
96-18-4	1,2,3-Trichloropropane	25	17.4	70*	77-115
120-82-1	1,2,4-Trichlorobenzene	25	24.9	100	68-123
95-63-6	1,2,4-Trimethylbenzene	25	24.4	98	82-120
108-67-8	1,3,5-Trimethylbenzene	25	25.3	101	83-123
127-18-4	Tetrachloroethylene	25	24.9	100	80-131
108-88-3	Toluene	25	25.3	101	86-116
79-01-6	Trichloroethylene	25	24.1	96	85-124
75-69-4	Trichlorofluoromethane	25	24.3	97	66-156
75-01-4	Vinyl chloride	25	22.6	90	57-153
108-05-4	Vinyl Acetate	125	181	145	38-159
	m,p-Xylene	50	52.0	104	86-121
95-47-6	o-Xylene	25	25.0	100	83-121

Blank Spike Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC2433-BS	C060033.D	1	12/26/08	AJ	n/a	n/a	VC2433

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-12, F62293-13, F62293-14, F62293-16, F62293-17, F62293-18, F62293-19

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	87-116%
17060-07-0	1,2-Dichloroethane-D4	96%	76-127%
2037-26-5	Toluene-D8	99%	86-112%
460-00-4	4-Bromofluorobenzene	97%	84-120%

Blank Spike Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ2715-BS	J043909.D	1	12/29/08	KW	n/a	n/a	VJ2715

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-6, F62293-9, F62293-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	101	81	59-134
107-02-8	Acrolein	125	148	118	33-157
107-13-1	Acrylonitrile	125	152	122	62-124
71-43-2	Benzene	25	31.1	124	83-124
108-86-1	Bromobenzene	25	26.9	108	83-115
74-97-5	Bromochloromethane	25	23.1	92	78-112
75-27-4	Bromodichloromethane	25	27.0	108	76-116
75-25-2	Bromoform	25	24.2	97	68-128
104-51-8	n-Butylbenzene	25	25.2	101	84-124
135-98-8	sec-Butylbenzene	25	26.6	106	86-127
98-06-6	tert-Butylbenzene	25	27.7	111	83-126
108-90-7	Chlorobenzene	25	28.3	113	87-115
75-00-3	Chloroethane	25	30.1	120	54-166
67-66-3	Chloroform	25	30.1	120	85-123
95-49-8	o-Chlorotoluene	25	26.3	105	84-121
106-43-4	p-Chlorotoluene	25	26.2	105	84-120
110-75-8	2-Chloroethyl vinyl ether	125	131	105	63-125
75-15-0	Carbon disulfide	25	23.7	95	67-147
56-23-5	Carbon tetrachloride	25	30.5	122	74-139
75-34-3	1,1-Dichloroethane	25	30.5	122	82-127
75-35-4	1,1-Dichloroethylene	25	28.4	114	75-133
563-58-6	1,1-Dichloropropene	25	28.6	114	87-127
96-12-8	1,2-Dibromo-3-chloropropane	25	24.0	96	61-118
106-93-4	1,2-Dibromoethane	25	26.2	105	80-115
107-06-2	1,2-Dichloroethane	25	29.1	116	76-122
78-87-5	1,2-Dichloropropane	25	27.8	111	81-120
142-28-9	1,3-Dichloropropane	25	25.2	101	81-113
594-20-7	2,2-Dichloropropane	25	31.1	124	77-138
124-48-1	Dibromochloromethane	25	26.3	105	74-116
75-71-8	Dichlorodifluoromethane	25	25.4	102	34-158
156-59-2	cis-1,2-Dichloroethylene	25	25.8	103	81-114
10061-01-5	cis-1,3-Dichloropropene	25	26.4	106	83-119
541-73-1	m-Dichlorobenzene	25	24.7	99	86-115
95-50-1	o-Dichlorobenzene	25	23.9	96	85-115
106-46-7	p-Dichlorobenzene	25	27.0	108	87-113
156-60-5	trans-1,2-Dichloroethylene	25	30.6	122	82-126

Blank Spike Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ2715-BS	J043909.D	1	12/29/08	KW	n/a	n/a	VJ2715

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-6, F62293-9, F62293-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	28.5	114	87-123
100-41-4	Ethylbenzene	25	29.6	118	87-118
591-78-6	2-Hexanone	125	91.5	73	58-125
87-68-3	Hexachlorobutadiene	25	24.0	96	71-133
98-82-8	Isopropylbenzene	25	27.4	110	87-131
99-87-6	p-Isopropyltoluene	25	26.6	106	83-125
108-10-1	4-Methyl-2-pentanone	125	119	95	62-125
74-83-9	Methyl bromide	25	26.2	105	55-151
74-87-3	Methyl chloride	25	28.3	113	55-173
74-95-3	Methylene bromide	25	27.8	111	81-116
75-09-2	Methylene chloride	25	26.8	107	69-125
78-93-3	Methyl ethyl ketone	125	113	90	61-127
1634-04-4	Methyl Tert Butyl Ether	25	23.9	96	75-116
91-20-3	Naphthalene	25	20.9	84	59-125
103-65-1	n-Propylbenzene	25	26.2	105	86-125
100-42-5	Styrene	25	24.6	98	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	27.3	109	81-119
71-55-6	1,1,1-Trichloroethane	25	28.9	116	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	24.3	97	71-120
79-00-5	1,1,2-Trichloroethane	25	24.4	98	80-114
87-61-6	1,2,3-Trichlorobenzene	25	21.8	87	64-126
96-18-4	1,2,3-Trichloropropane	25	22.0	88	77-115
120-82-1	1,2,4-Trichlorobenzene	25	22.1	88	68-123
95-63-6	1,2,4-Trimethylbenzene	25	25.7	103	82-120
108-67-8	1,3,5-Trimethylbenzene	25	27.2	109	83-123
127-18-4	Tetrachloroethylene	25	29.8	119	80-131
108-88-3	Toluene	25	28.5	114	86-116
79-01-6	Trichloroethylene	25	30.7	123	85-124
75-69-4	Trichlorofluoromethane	25	27.9	112	66-156
75-01-4	Vinyl chloride	25	29.9	120	57-153
108-05-4	Vinyl Acetate	125	218	174*	38-159
	m,p-Xylene	50	54.4	109	86-121
95-47-6	o-Xylene	25	26.3	105	83-121

Blank Spike Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ2715-BS	J043909.D	1	12/29/08	KW	n/a	n/a	VJ2715

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-6, F62293-9, F62293-15

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	87-116%
17060-07-0	1,2-Dichloroethane-D4	109%	76-127%
2037-26-5	Toluene-D8	96%	86-112%
460-00-4	4-Bromofluorobenzene	102%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F62263-2MS	C060013.D	1	12/24/08	AJ	n/a	n/a	VC2432
F62263-2MSD	C060014.D	1	12/24/08	AJ	n/a	n/a	VC2432
F62263-2	C060012.D	1	12/24/08	AJ	n/a	n/a	VC2432

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-1, F62293-2, F62293-3, F62293-4, F62293-5, F62293-7, F62293-8

CAS No.	Compound	F62263-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	25 U		125	55.5	44*	58.6	47*	5	59-134/14
107-02-8	Acrolein	20 U		125	13.9	11*	12.7	10*	9	33-157/21
107-13-1	Acrylonitrile	10 U		125	108	86	108	86	0	62-124/13
71-43-2	Benzene	1.0 U		25	25.1	100	24.2	97	4	83-124/11
108-86-1	Bromobenzene	1.0 U		25	24.5	98	24.2	97	1	83-115/10
74-97-5	Bromochloromethane	1.0 U		25	20.7	83	21.2	85	2	78-112/10
75-27-4	Bromodichloromethane	1.0 U		25	23.2	93	23.0	92	1	76-116/10
75-25-2	Bromoform	1.0 U		25	20.7	83	21.9	88	6	68-128/11
104-51-8	n-Butylbenzene	1.7		25	27.5	103	26.6	100	3	84-124/10
135-98-8	sec-Butylbenzene	2.6		25	29.5	108	28.5	104	3	86-127/10
98-06-6	tert-Butylbenzene	1.0 U		25	25.9	104	24.9	100	4	83-126/10
108-90-7	Chlorobenzene	1.0 U		25	24.1	96	23.6	94	2	87-115/9
75-00-3	Chloroethane	2.0 U		25	18.9	76	15.5	62	20	54-166/20
67-66-3	Chloroform	1.0 U		25	24.9	100	24.2	97	3	85-123/10
95-49-8	o-Chlorotoluene	1.0 U		25	26.9	108	25.8	103	4	84-121/10
106-43-4	p-Chlorotoluene	1.0 U		25	25.1	100	24.5	98	2	84-120/10
110-75-8	2-Chloroethyl vinyl ether	5.0 U		125	2.1	2*	ND	0*	200*	63-125/24
75-15-0	Carbon disulfide	2.0 U		25	20.2	81	18.3	73	10	67-147/12
56-23-5	Carbon tetrachloride	1.0 U		25	26.6	106	27.8	111	4	74-139/13
75-34-3	1,1-Dichloroethane	1.0 U		25	25.3	101	23.9	96	6	82-127/10
75-35-4	1,1-Dichloroethylene	1.0 U		25	25.3	101	22.7	91	11	75-133/13
563-58-6	1,1-Dichloropropene	1.0 U		25	26.3	105	25.0	100	5	87-127/10
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		25	22.7	91	24.2	97	6	61-118/15
106-93-4	1,2-Dibromoethane	1.0 U		25	20.9	84	21.5	86	3	80-115/10
107-06-2	1,2-Dichloroethane	1.0 U		25	21.6	86	22.0	88	2	76-122/11
78-87-5	1,2-Dichloropropane	1.0 U		25	23.8	95	22.3	89	7	81-120/11
142-28-9	1,3-Dichloropropane	1.0 U		25	22.0	88	21.8	87	1	81-113/11
594-20-7	2,2-Dichloropropane	1.0 U		25	26.8	107	25.8	103	4	77-138/12
124-48-1	Dibromochloromethane	1.0 U		25	22.3	89	23.6	94	6	74-116/11
75-71-8	Dichlorodifluoromethane	2.0 U		25	14.2	57	15.7	63	10	34-158/22
156-59-2	cis-1,2-Dichloroethylene	1.0 U		25	22.7	91	22.5	90	1	81-114/10
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	24.1	96	22.7	91	6	83-119/10
541-73-1	m-Dichlorobenzene	1.0 U		25	24.5	98	24.2	97	1	86-115/9
95-50-1	o-Dichlorobenzene	1.0 U		25	24.4	98	24.0	96	2	85-115/9
106-46-7	p-Dichlorobenzene	1.0 U		25	24.2	97	23.5	94	3	87-113/10
156-60-5	trans-1,2-Dichloroethylene	1.0 U		25	25.9	104	24.4	98	6	82-126/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F62263-2MS	C060013.D	1	12/24/08	AJ	n/a	n/a	VC2432
F62263-2MSD	C060014.D	1	12/24/08	AJ	n/a	n/a	VC2432
F62263-2	C060012.D	1	12/24/08	AJ	n/a	n/a	VC2432

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-1, F62293-2, F62293-3, F62293-4, F62293-5, F62293-7, F62293-8

CAS No.	Compound	F62263-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	25.2	101	24.1	96	4	87-123/10
100-41-4	Ethylbenzene	5.0		25	28.4	94	27.7	91	2	87-118/10
591-78-6	2-Hexanone	10 U		125	73.8	59	76.4	61	3	58-125/14
87-68-3	Hexachlorobutadiene	2.0 U		25	26.9	108	26.1	104	3	71-133/12
98-82-8	Isopropylbenzene	1.7		25	26.0	97	25.1	94	4	87-131/10
99-87-6	p-Isopropyltoluene	1.0 U		25	27.4	110	26.5	106	3	83-125/9
108-10-1	4-Methyl-2-pentanone	5.0 U		125	82.1	66	82.4	66	0	62-125/13
74-83-9	Methyl bromide	2.0 U		25	19.1	76	15.5	62	21	55-151/21
74-87-3	Methyl chloride	2.0 U		25	20.2	81	18.4	74	9	55-173/22
74-95-3	Methylene bromide	2.0 U		25	23.0	92	23.2	93	1	81-116/10
75-09-2	Methylene chloride	5.0 U		25	23.2	93	22.3	89	4	69-125/11
78-93-3	Methyl ethyl ketone	5.0 U		125	74.2	59*	75.3	60*	1	61-127/13
1634-04-4	Methyl Tert Butyl Ether	1.0 U		25	20.0	80	20.5	82	2	75-116/10
91-20-3	Naphthalene	58.1		25	64.5	26* [a]	63.6	22* [a]	1	59-125/15
103-65-1	n-Propylbenzene	4.9		25	30.4	102	28.5	94	6	86-125/10
100-42-5	Styrene	1.0 U		25	24.9	100	24.1	96	3	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U		25	22.6	90	23.1	92	2	81-119/10
71-55-6	1,1,1-Trichloroethane	1.0 U		25	25.6	102	26.3	105	3	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	22.7	91	22.6	90	0	71-120/11
79-00-5	1,1,2-Trichloroethane	1.0 U		25	26.0	104	25.7	103	1	80-114/11
87-61-6	1,2,3-Trichlorobenzene	1.0 U		25	24.9	100	24.0	96	4	64-126/16
96-18-4	1,2,3-Trichloropropane	2.0 U		25	18.8	75*	19.5	78	4	77-115/12
120-82-1	1,2,4-Trichlorobenzene	1.0 U		25	25.3	101	25.0	100	1	68-123/11
95-63-6	1,2,4-Trimethylbenzene	56.0		25	63.7	31* [a]	61.6	22* [a]	3	82-120/10
108-67-8	1,3,5-Trimethylbenzene	14.1		25	37.3	93	36.2	88	3	83-123/10
127-18-4	Tetrachloroethylene	1.0 U		25	24.0	96	23.6	94	2	80-131/12
108-88-3	Toluene	1.0 U		25	24.9	100	23.9	96	4	86-116/10
79-01-6	Trichloroethylene	1.0 U		25	25.2	101	23.8	95	6	85-124/10
75-69-4	Trichlorofluoromethane	2.0 U		25	21.2	85	20.7	83	2	66-156/15
75-01-4	Vinyl chloride	1.0 U		25	20.1	80	19.5	78	3	57-153/22
108-05-4	Vinyl Acetate	10 U		125	169	135	163	130	4	38-159/11
	m,p-Xylene	7.6		50	57.6	100	54.8	94	5	86-121/10
95-47-6	o-Xylene	13.4		25	35.3	88	33.8	82*	4	83-121/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F62263-2MS	C060013.D	1	12/24/08	AJ	n/a	n/a	VC2432
F62263-2MSD	C060014.D	1	12/24/08	AJ	n/a	n/a	VC2432
F62263-2	C060012.D	1	12/24/08	AJ	n/a	n/a	VC2432

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-1, F62293-2, F62293-3, F62293-4, F62293-5, F62293-7, F62293-8

CAS No.	Surrogate Recoveries	MS	MSD	F62263-2	Limits
1868-53-7	Dibromofluoromethane	100%	106%	97%	87-116%
17060-07-0	1,2-Dichloroethane-D4	94%	97%	90%	76-127%
2037-26-5	Toluene-D8	99%	99%	95%	86-112%
460-00-4	4-Bromofluorobenzene	102%	103%	89%	84-120%

(a) Outside control limits due to high level in sample relative to spike amount.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F62264-3MS	J043801.D	1	12/25/08	JG	n/a	n/a	VJ2710
F62264-3MSD	J043802.D	1	12/25/08	JG	n/a	n/a	VJ2710
F62264-3	J043795.D	1	12/25/08	JG	n/a	n/a	VJ2710

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-10, F62293-11

CAS No.	Compound	F62264-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	25 U		125	84.5	68	82.2	66	3	59-134/14
107-02-8	Acrolein	20 U		125	30.6	24*	25.7	21*	17	33-157/21
107-13-1	Acrylonitrile	10 U		125	129	103	115	92	11	62-124/13
71-43-2	Benzene	2.3		25	32.8	122	32.2	120	2	83-124/11
108-86-1	Bromobenzene	1.0 U		25	27.2	109	28.1	112	3	83-115/10
74-97-5	Bromochloromethane	1.0 U		25	22.2	89	22.5	90	1	78-112/10
75-27-4	Bromodichloromethane	1.0 U		25	26.7	107	26.6	106	0	76-116/10
75-25-2	Bromoform	1.0 U		25	24.8	99	25.4	102	2	68-128/11
104-51-8	n-Butylbenzene	3.7		25	29.5	103	29.5	103	0	84-124/10
135-98-8	sec-Butylbenzene	1.8		25	28.9	108	29.7	112	3	86-127/10
98-06-6	tert-Butylbenzene	1.0 U		25	28.0	112	29.6	118	6	83-126/10
108-90-7	Chlorobenzene	1.0 U		25	28.8	115	29.0	116*	1	87-115/9
75-00-3	Chloroethane	2.0 U		25	24.0	96	25.5	102	6	54-166/20
67-66-3	Chloroform	1.0 U		25	28.1	112	29.0	116	3	85-123/10
95-49-8	o-Chlorotoluene	1.0 U		25	26.4	106	27.3	109	3	84-121/10
106-43-4	p-Chlorotoluene	1.0 U		25	25.4	102	27.2	109	7	84-120/10
110-75-8	2-Chloroethyl vinyl ether	5.0 U		125	ND	0*	ND	0*	nc	63-125/24
75-15-0	Carbon disulfide	2.0 U		25	23.4	94	24.9	100	6	67-147/12
56-23-5	Carbon tetrachloride	1.0 U		25	28.3	113	31.3	125	10	74-139/13
75-34-3	1,1-Dichloroethane	1.0 U		25	28.6	114	28.9	116	1	82-127/10
75-35-4	1,1-Dichloroethylene	1.0 U		25	27.1	108	29.3	117	8	75-133/13
563-58-6	1,1-Dichloropropene	1.0 U		25	27.7	111	28.9	116	4	87-127/10
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		25	24.7	99	26.9	108	9	61-118/15
106-93-4	1,2-Dibromoethane	1.0 U		25	26.8	107	27.9	112	4	80-115/10
107-06-2	1,2-Dichloroethane	1.0 U		25	26.7	107	27.8	111	4	76-122/11
78-87-5	1,2-Dichloropropane	1.0 U		25	28.7	115	27.9	112	3	81-120/11
142-28-9	1,3-Dichloropropane	1.0 U		25	25.8	103	26.2	105	2	81-113/11
594-20-7	2,2-Dichloropropane	1.0 U		25	28.7	115	29.2	117	2	77-138/12
124-48-1	Dibromochloromethane	1.0 U		25	25.5	102	26.7	107	5	74-116/11
75-71-8	Dichlorodifluoromethane	2.0 U		25	15.3	61	18.4	74	18	34-158/22
156-59-2	cis-1,2-Dichloroethylene	1.0 U		25	26.2	105	25.5	102	3	81-114/10
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	24.8	99	24.2	97	2	83-119/10
541-73-1	m-Dichlorobenzene	1.0 U		25	25.3	101	25.8	103	2	86-115/9
95-50-1	o-Dichlorobenzene	1.0 U		25	25.1	100	25.3	101	1	85-115/9
106-46-7	p-Dichlorobenzene	1.0 U		25	27.8	111	28.1	112	1	87-113/10
156-60-5	trans-1,2-Dichloroethylene	1.0 U		25	28.9	116	28.6	114	1	82-126/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F62264-3MS	J043801.D	1	12/25/08	JG	n/a	n/a	VJ2710
F62264-3MSD	J043802.D	1	12/25/08	JG	n/a	n/a	VJ2710
F62264-3	J043795.D	1	12/25/08	JG	n/a	n/a	VJ2710

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-10, F62293-11

CAS No.	Compound	F62264-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	26.1	104	28.7	115	9	87-123/10
100-41-4	Ethylbenzene	4.1		25	33.7	118	34.6	122*	3	87-118/10
591-78-6	2-Hexanone	10 U		125	85.6	68	87.3	70	2	58-125/14
87-68-3	Hexachlorobutadiene	2.0 U		25	27.7	111	27.8	111	0	71-133/12
98-82-8	Isopropylbenzene	1.5		25	30.2	115	30.3	115	0	87-131/10
99-87-6	p-Isopropyltoluene	1.0 U		25	26.8	107	27.5	110	3	83-125/9
108-10-1	4-Methyl-2-pentanone	5.0 U		125	114	91	118	94	3	62-125/13
74-83-9	Methyl bromide	2.0 U		25	23.5	94	23.6	94	0	55-151/21
74-87-3	Methyl chloride	2.0 U		25	25.0	100	25.7	103	3	55-173/22
74-95-3	Methylene bromide	2.0 U		25	27.2	109	27.3	109	0	81-116/10
75-09-2	Methylene chloride	5.0 U		25	23.9	96	23.1	92	3	69-125/11
78-93-3	Methyl ethyl ketone	5.0 U		125	103	82	98.8	79	4	61-127/13
1634-04-4	Methyl Tert Butyl Ether	0.47	I	25	23.6	93	24.1	95	2	75-116/10
91-20-3	Naphthalene	125	L	25	140	60	133	32* [a]	5	59-125/15
103-65-1	n-Propylbenzene	5.0		25	31.7	107	33.0	112	4	86-125/10
100-42-5	Styrene	1.0 U		25	26.5	106	26.1	104	2	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U		25	26.8	107	28.1	112	5	81-119/10
71-55-6	1,1,1-Trichloroethane	1.0 U		25	27.5	110	29.6	118	7	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	23.7	95	25.2	101	6	71-120/11
79-00-5	1,1,2-Trichloroethane	1.0 U		25	24.7	99	26.1	104	6	80-114/11
87-61-6	1,2,3-Trichlorobenzene	1.0 U		25	26.2	105	26.4	106	1	64-126/16
96-18-4	1,2,3-Trichloropropane	2.0 U		25	21.5	86	23.0	92	7	77-115/12
120-82-1	1,2,4-Trichlorobenzene	1.0 U		25	26.6	106	26.1	104	2	68-123/11
95-63-6	1,2,4-Trimethylbenzene	0.46	I	25	26.7	105	28.1	111	5	82-120/10
108-67-8	1,3,5-Trimethylbenzene	2.0 U		25	26.8	107	28.1	112	5	83-123/10
127-18-4	Tetrachloroethylene	1.0 U		25	29.6	118	31.3	125	6	80-131/12
108-88-3	Toluene	1.0 U		25	26.8	107	29.6	118*	10	86-116/10
79-01-6	Trichloroethylene	1.0 U		25	29.4	118	29.8	119	1	85-124/10
75-69-4	Trichlorofluoromethane	2.0 U		25	20.0	80	21.7	87	8	66-156/15
75-01-4	Vinyl chloride	1.0 U		25	24.1	96	26.3	105	9	57-153/22
108-05-4	Vinyl Acetate	10 U		125	172	138	168	134	2	38-159/11
	m,p-Xylene	2.0 U		50	53.7	107	55.3	111	3	86-121/10
95-47-6	o-Xylene	1.0 U		25	26.8	107	27.8	111	4	83-121/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F62264-3MS	J043801.D	1	12/25/08	JG	n/a	n/a	VJ2710
F62264-3MSD	J043802.D	1	12/25/08	JG	n/a	n/a	VJ2710
F62264-3	J043795.D	1	12/25/08	JG	n/a	n/a	VJ2710

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-10, F62293-11

CAS No.	Surrogate Recoveries	MS	MSD	F62264-3	Limits
1868-53-7	Dibromofluoromethane	96%	98%	99%	87-116%
17060-07-0	1,2-Dichloroethane-D4	99%	105%	96%	76-127%
2037-26-5	Toluene-D8	94%	101%	100%	86-112%
460-00-4	4-Bromofluorobenzene	98%	105%	97%	84-120%

(a) Outside control limits due to high level in sample relative to spike amount.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F62280-3MS	C060045.D	1	12/26/08	AJ	n/a	n/a	VC2433
F62280-3MSD	C060046.D	1	12/26/08	AJ	n/a	n/a	VC2433
F62280-3	C060038.D	1	12/26/08	AJ	n/a	n/a	VC2433

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-12, F62293-13, F62293-14, F62293-16, F62293-17, F62293-18, F62293-19

CAS No.	Compound	F62280-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	25 U		125	61.1	49*	63.6	51*	4	59-134/14
107-02-8	Acrolein	20 U		125	175	140	191	153	9	33-157/21
107-13-1	Acrylonitrile	10 U		125	122	98	126	101	3	62-124/13
71-43-2	Benzene	1.0 U		25	25.2	101	25.1	100	0	83-124/11
108-86-1	Bromobenzene	1.0 U		25	23.7	95	24.3	97	3	83-115/10
74-97-5	Bromochloromethane	1.0 U		25	22.9	92	21.8	87	5	78-112/10
75-27-4	Bromodichloromethane	1.0 U		25	22.9	92	23.0	92	0	76-116/10
75-25-2	Bromoform	1.0 U		25	23.5	94	23.1	92	2	68-128/11
104-51-8	n-Butylbenzene	1.0 U		25	23.8	95	24.1	96	1	84-124/10
135-98-8	sec-Butylbenzene	1.0 U		25	26.1	104	25.6	102	2	86-127/10
98-06-6	tert-Butylbenzene	1.0 U		25	23.4	94	23.1	92	1	83-126/10
108-90-7	Chlorobenzene	1.0 U		25	25.1	100	24.9	100	1	87-115/9
75-00-3	Chloroethane	2.0 U		25	23.8	95	23.6	94	1	54-166/20
67-66-3	Chloroform	1.0 U		25	25.1	100	24.7	99	2	85-123/10
95-49-8	o-Chlorotoluene	1.0 U		25	23.9	96	24.4	98	2	84-121/10
106-43-4	p-Chlorotoluene	1.0 U		25	23.2	93	23.5	94	1	84-120/10
110-75-8	2-Chloroethyl vinyl ether	5.0 U		125	ND	0*	ND	0*	nc	63-125/24
75-15-0	Carbon disulfide	2.0 U		25	23.8	95	23.4	94	2	67-147/12
56-23-5	Carbon tetrachloride	1.0 U		25	26.4	106	25.5	102	3	74-139/13
75-34-3	1,1-Dichloroethane	1.0 U		25	25.7	103	25.4	102	1	82-127/10
75-35-4	1,1-Dichloroethylene	1.0 U		25	28.7	115	28.5	114	1	75-133/13
563-58-6	1,1-Dichloropropene	1.0 U		25	25.6	102	25.0	100	2	87-127/10
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		25	18.4	74	20.2	81	9	61-118/15
106-93-4	1,2-Dibromoethane	1.0 U		25	20.4	82	20.5	82	0	80-115/10
107-06-2	1,2-Dichloroethane	1.0 U		25	22.8	91	22.8	91	0	76-122/11
78-87-5	1,2-Dichloropropane	1.0 U		25	24.8	99	23.1	92	7	81-120/11
142-28-9	1,3-Dichloropropane	1.0 U		25	21.8	87	22.0	88	1	81-113/11
594-20-7	2,2-Dichloropropane	1.0 U		25	25.3	101	23.7	95	7	77-138/12
124-48-1	Dibromochloromethane	1.0 U		25	23.0	92	22.8	91	1	74-116/11
75-71-8	Dichlorodifluoromethane	2.0 U		25	12.9	52	12.0	48	7	34-158/22
156-59-2	cis-1,2-Dichloroethylene	1.0 U		25	23.5	94	23.1	92	2	81-114/10
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	22.5	90	23.0	92	2	83-119/10
541-73-1	m-Dichlorobenzene	1.0 U		25	25.0	100	25.2	101	1	86-115/9
95-50-1	o-Dichlorobenzene	1.0 U		25	25.2	101	25.6	102	2	85-115/9
106-46-7	p-Dichlorobenzene	1.0 U		25	25.1	100	25.3	101	1	87-113/10
156-60-5	trans-1,2-Dichloroethylene	1.0 U		25	25.6	102	25.2	101	2	82-126/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F62280-3MS	C060045.D	1	12/26/08	AJ	n/a	n/a	VC2433
F62280-3MSD	C060046.D	1	12/26/08	AJ	n/a	n/a	VC2433
F62280-3	C060038.D	1	12/26/08	AJ	n/a	n/a	VC2433

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-12, F62293-13, F62293-14, F62293-16, F62293-17, F62293-18, F62293-19

CAS No.	Compound	F62280-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	24.3	97	24.9	100	2	87-123/10
100-41-4	Ethylbenzene	1.0 U		25	24.9	100	24.0	96	4	87-118/10
591-78-6	2-Hexanone	10 U		125	75.2	60	78.6	63	4	58-125/14
87-68-3	Hexachlorobutadiene	2.0 U		25	25.9	104	24.4	98	6	71-133/12
98-82-8	Isopropylbenzene	1.0 U		25	24.9	100	23.6	94	5	87-131/10
99-87-6	p-Isopropyltoluene	1.0 U		25	25.4	102	24.9	100	2	83-125/9
108-10-1	4-Methyl-2-pentanone	5.0 U		125	87.6	70	89.9	72	3	62-125/13
74-83-9	Methyl bromide	2.0 U		25	24.8	99	24.6	98	1	55-151/21
74-87-3	Methyl chloride	2.0 U		25	19.9	80	22.7	91	13	55-173/22
74-95-3	Methylene bromide	2.0 U		25	24.6	98	23.7	95	4	81-116/10
75-09-2	Methylene chloride	5.0 U		25	25.4	102	24.9	100	2	69-125/11
78-93-3	Methyl ethyl ketone	5.0 U		125	78.4	63	84.1	67	7	61-127/13
1634-04-4	Methyl Tert Butyl Ether	1.0 U		25	19.7	79	19.7	79	0	75-116/10
91-20-3	Naphthalene	5.0 U		25	20.1	80	21.5	86	7	59-125/15
103-65-1	n-Propylbenzene	1.0 U		25	24.6	98	24.5	98	0	86-125/10
100-42-5	Styrene	1.0 U		25	25.7	103	24.9	100	3	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U		25	23.5	94	23.3	93	1	81-119/10
71-55-6	1,1,1-Trichloroethane	1.0 U		25	25.7	103	25.0	100	3	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	22.4	90	23.4	94	4	71-120/11
79-00-5	1,1,2-Trichloroethane	1.0 U		25	22.6	90	22.4	90	1	80-114/11
87-61-6	1,2,3-Trichlorobenzene	1.0 U		25	24.1	96	23.9	96	1	64-126/16
96-18-4	1,2,3-Trichloropropane	2.0 U		25	17.3	69*	17.1	68*	1	77-115/12
120-82-1	1,2,4-Trichlorobenzene	1.0 U		25	25.3	101	24.8	99	2	68-123/11
95-63-6	1,2,4-Trimethylbenzene	2.0 U		25	24.0	96	23.7	95	1	82-120/10
108-67-8	1,3,5-Trimethylbenzene	2.0 U		25	24.6	98	24.7	99	0	83-123/10
127-18-4	Tetrachloroethylene	1.0 U		25	25.6	102	24.1	96	6	80-131/12
108-88-3	Toluene	1.0 U		25	25.0	100	24.2	97	3	86-116/10
79-01-6	Trichloroethylene	25.3		25	51.9	106	49.0	95	6	85-124/10
75-69-4	Trichlorofluoromethane	2.0 U		25	23.2	93	24.3	97	5	66-156/15
75-01-4	Vinyl chloride	1.0 U		25	20.7	83	21.2	85	2	57-153/22
108-05-4	Vinyl Acetate	10 U		125	185	148	187	150	1	38-159/11
	m,p-Xylene	2.0 U		50	51.5	103	50.5	101	2	86-121/10
95-47-6	o-Xylene	1.0 U		25	24.5	98	23.8	95	3	83-121/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F62280-3MS	C060045.D	1	12/26/08	AJ	n/a	n/a	VC2433
F62280-3MSD	C060046.D	1	12/26/08	AJ	n/a	n/a	VC2433
F62280-3	C060038.D	1	12/26/08	AJ	n/a	n/a	VC2433

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-12, F62293-13, F62293-14, F62293-16, F62293-17, F62293-18, F62293-19

CAS No.	Surrogate Recoveries	MS	MSD	F62280-3	Limits
1868-53-7	Dibromofluoromethane	102%	102%	100%	87-116%
17060-07-0	1,2-Dichloroethane-D4	91%	93%	89%	76-127%
2037-26-5	Toluene-D8	92%	94%	99%	86-112%
460-00-4	4-Bromofluorobenzene	87%	92%	93%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F62315-5MS	J043925.D	1	12/29/08	KW	n/a	n/a	VJ2715
F62315-5MSD	J043926.D	1	12/29/08	KW	n/a	n/a	VJ2715
F62315-5	J043924.D	1	12/29/08	KW	n/a	n/a	VJ2715

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-6, F62293-9, F62293-15

CAS No.	Compound	F62315-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	25 U		125	82.1	66	82.5	66	0	59-134/14
107-02-8	Acrolein	20 U		125	127	102	130	104	2	33-157/21
107-13-1	Acrylonitrile	10 U		125	147	118	129	103	13	62-124/13
71-43-2	Benzene	1.0 U		25	30.7	123	30.4	122	1	83-124/11
108-86-1	Bromobenzene	1.0 U		25	25.5	102	26.1	104	2	83-115/10
74-97-5	Bromochloromethane	1.0 U		25	23.1	92	22.3	89	4	78-112/10
75-27-4	Bromodichloromethane	1.0 U		25	26.7	107	26.1	104	2	76-116/10
75-25-2	Bromoform	1.0 U		25	22.9	92	22.7	91	1	68-128/11
104-51-8	n-Butylbenzene	1.0 U		25	23.4	94	24.1	96	3	84-124/10
135-98-8	sec-Butylbenzene	1.0 U		25	24.9	100	25.5	102	2	86-127/10
98-06-6	tert-Butylbenzene	1.0 U		25	25.8	103	26.6	106	3	83-126/10
108-90-7	Chlorobenzene	1.0 U		25	27.7	111	27.8	111	0	87-115/9
75-00-3	Chloroethane	2.0 U		25	21.4	86	27.3	109	24*	54-166/20
67-66-3	Chloroform	1.0 U		25	29.3	117	29.7	119	1	85-123/10
95-49-8	o-Chlorotoluene	1.0 U		25	25.8	103	26.0	104	1	84-121/10
106-43-4	p-Chlorotoluene	1.0 U		25	24.9	100	24.3	97	2	84-120/10
110-75-8	2-Chloroethyl vinyl ether	5.0 U		125	ND	0*	ND	0*	nc	63-125/24
75-15-0	Carbon disulfide	2.0 U		25	21.5	86	24.2	97	12	67-147/12
56-23-5	Carbon tetrachloride	1.0 U		25	31.1	124	29.6	118	5	74-139/13
75-34-3	1,1-Dichloroethane	1.5		25	32.1	122	30.4	116	5	82-127/10
75-35-4	1,1-Dichloroethylene	1.0 U		25	27.4	110	29.1	116	6	75-133/13
563-58-6	1,1-Dichloropropene	1.0 U		25	28.4	114	27.9	112	2	87-127/10
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		25	22.7	91	24.1	96	6	61-118/15
106-93-4	1,2-Dibromoethane	1.0 U		25	25.8	103	25.6	102	1	80-115/10
107-06-2	1,2-Dichloroethane	1.0 U		25	28.7	115	28.2	113	2	76-122/11
78-87-5	1,2-Dichloropropane	1.0 U		25	27.2	109	27.0	108	1	81-120/11
142-28-9	1,3-Dichloropropane	1.0 U		25	24.6	98	24.9	100	1	81-113/11
594-20-7	2,2-Dichloropropane	1.0 U		25	29.2	117	30.0	120	3	77-138/12
124-48-1	Dibromochloromethane	1.0 U		25	23.8	95	25.0	100	5	74-116/11
75-71-8	Dichlorodifluoromethane	251	L	25	304	212* [a]	333	328* [a]	9	34-158/22
156-59-2	cis-1,2-Dichloroethylene	215	L	25	255	160* [a]	254	156* [a]	0	81-114/10
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	23.0	92	23.1	92	0	83-119/10
541-73-1	m-Dichlorobenzene	1.0 U		25	23.5	94	23.8	95	1	86-115/9
95-50-1	o-Dichlorobenzene	1.0 U		25	22.7	91	22.9	92	1	85-115/9
106-46-7	p-Dichlorobenzene	1.0 U		25	27.1	108	26.1	104	4	87-113/10
156-60-5	trans-1,2-Dichloroethylene	0.47	I	25	31.6	125	31.0	122	2	82-126/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F62315-5MS	J043925.D	1	12/29/08	KW	n/a	n/a	VJ2715
F62315-5MSD	J043926.D	1	12/29/08	KW	n/a	n/a	VJ2715
F62315-5	J043924.D	1	12/29/08	KW	n/a	n/a	VJ2715

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-6, F62293-9, F62293-15

CAS No.	Compound	F62315-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	26.3	105	26.6	106	1	87-123/10
100-41-4	Ethylbenzene	1.0 U		25	28.5	114	28.5	114	0	87-118/10
591-78-6	2-Hexanone	10 U		125	85.9	69	88.8	71	3	58-125/14
87-68-3	Hexachlorobutadiene	2.0 U		25	21.2	85	21.9	88	3	71-133/12
98-82-8	Isopropylbenzene	1.0 U		25	26.2	105	26.1	104	0	87-131/10
99-87-6	p-Isopropyltoluene	1.0 U		25	25.4	102	25.2	101	1	83-125/9
108-10-1	4-Methyl-2-pentanone	5.0 U		125	121	97	121	97	0	62-125/13
74-83-9	Methyl bromide	2.0 U		25	22.0	88	25.7	103	16	55-151/21
74-87-3	Methyl chloride	2.0 U		25	21.5	86	23.4	94	8	55-173/22
74-95-3	Methylene bromide	2.0 U		25	27.3	109	27.5	110	1	81-116/10
75-09-2	Methylene chloride	5.0 U		25	26.1	104	25.3	101	3	69-125/11
78-93-3	Methyl ethyl ketone	5.0 U		125	105	84	106	85	1	61-127/13
1634-04-4	Methyl Tert Butyl Ether	1.0 U		25	22.9	92	23.2	93	1	75-116/10
91-20-3	Naphthalene	5.0 U		25	18.9	76	19.2	77	2	59-125/15
103-65-1	n-Propylbenzene	1.0 U		25	25.4	102	25.3	101	0	86-125/10
100-42-5	Styrene	1.0 U		25	24.8	99	24.4	98	2	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U		25	25.0	100	25.5	102	2	81-119/10
71-55-6	1,1,1-Trichloroethane	1.0 U		25	28.3	113	28.4	114	0	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	23.0	92	24.2	97	5	71-120/11
79-00-5	1,1,2-Trichloroethane	1.0 U		25	24.1	96	25.0	100	4	80-114/11
87-61-6	1,2,3-Trichlorobenzene	1.0 U		25	19.1	76	20.0	80	5	64-126/16
96-18-4	1,2,3-Trichloropropane	2.0 U		25	21.5	86	21.2	85	1	77-115/12
120-82-1	1,2,4-Trichlorobenzene	1.0 U		25	20.0	80	20.7	83	3	68-123/11
95-63-6	1,2,4-Trimethylbenzene	1.1	I	25	26.1	100	26.4	101	1	82-120/10
108-67-8	1,3,5-Trimethylbenzene	0.46	I	25	26.4	104	26.7	105	1	83-123/10
127-18-4	Tetrachloroethylene	1.0 U		25	28.0	112	28.4	114	1	80-131/12
108-88-3	Toluene	0.87	I	25	27.0	105	28.0	109	4	86-116/10
79-01-6	Trichloroethylene	129	L	25	178	196* [a]	177	192* [a]	1	85-124/10
75-69-4	Trichlorofluoromethane	2.0 U		25	20.7	83	23.7	95	14	66-156/15
75-01-4	Vinyl chloride	1460	L	25	947	-2052* [a]	1090	-1480* [a]	14	57-153/22
108-05-4	Vinyl Acetate	10 U		125	207	166*	202	162*	2	38-159/11
	m,p-Xylene	2.0 U		50	51.6	103	51.8	104	0	86-121/10
95-47-6	o-Xylene	1.0 U		25	25.4	102	25.7	103	1	83-121/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F62315-5MS	J043925.D	1	12/29/08	KW	n/a	n/a	VJ2715
F62315-5MSD	J043926.D	1	12/29/08	KW	n/a	n/a	VJ2715
F62315-5	J043924.D	1	12/29/08	KW	n/a	n/a	VJ2715

The QC reported here applies to the following samples: **Method:** SW846 8260B

F62293-6, F62293-9, F62293-15

CAS No.	Surrogate Recoveries	MS	MSD	F62315-5	Limits
1868-53-7	Dibromofluoromethane	98%	101%	103%	87-116%
17060-07-0	1,2-Dichloroethane-D4	107%	107%	107%	76-127%
2037-26-5	Toluene-D8	92%	95%	99%	86-112%
460-00-4	4-Bromofluorobenzene	98%	100%	106%	84-120%

(a) Outside control limits due to high level in sample relative to spike amount.

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27528-MB	AA047087.D	1	12/22/08	FEA	12/19/08	OP27528	GAA1888

The QC reported here applies to the following samples: **Method:** SW846 8310

F62293-1, F62293-2, F62293-3, F62293-4, F62293-5, F62293-6, F62293-7, F62293-8, F62293-9, F62293-10, F62293-11, F62293-12, F62293-13, F62293-14, F62293-15, F62293-16, F62293-17

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	2.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	2.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.050	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.050	ug/l	
218-01-9	Chrysene	ND	2.0	0.50	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	90%	43-121%
92-94-4	p-Terphenyl	86%	30-122%

Method Blank Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27527-MB	IJ53828.D	1	12/22/08	SL	12/19/08	OP27527	GIJ1911

The QC reported here applies to the following samples: **Method:** FLORIDA-PRO

F62293-1, F62293-2, F62293-3, F62293-4, F62293-5, F62293-6, F62293-7, F62293-8, F62293-9, F62293-10, F62293-11, F62293-12, F62293-13, F62293-14, F62293-15, F62293-16, F62293-17

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	ND	0.25	0.17	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	100%	38-122%

Method Blank Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27527-MB	IJ53882.D	1	12/23/08	SL	12/19/08	OP27527	GIJ1912

The QC reported here applies to the following samples: **Method:** FLORIDA-PRO

F62293-1, F62293-2, F62293-3, F62293-4, F62293-5, F62293-6, F62293-7, F62293-8, F62293-9, F62293-10, F62293-11, F62293-12, F62293-13, F62293-14, F62293-15, F62293-16, F62293-17

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	ND	0.25	0.17	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	97%	38-122%

Blank Spike Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27528-BS	AA047086.D	1	12/22/08	FEA	12/19/08	OP27528	GAA1888

The QC reported here applies to the following samples: **Method:** SW846 8310

F62293-1, F62293-2, F62293-3, F62293-4, F62293-5, F62293-6, F62293-7, F62293-8, F62293-9, F62293-10, F62293-11, F62293-12, F62293-13, F62293-14, F62293-15, F62293-16, F62293-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	20	18.4	92	60-102
208-96-8	Acenaphthylene	20	19.3	97	66-108
120-12-7	Anthracene	10	10.1	101	64-107
56-55-3	Benzo(a)anthracene	10	9.8	98	70-108
50-32-8	Benzo(a)pyrene	10	9.9	99	72-115
205-99-2	Benzo(b)fluoranthene	10	9.8	98	73-111
191-24-2	Benzo(g,h,i)perylene	10	9.2	92	69-113
207-08-9	Benzo(k)fluoranthene	10	9.5	95	70-111
218-01-9	Chrysene	10	9.9	99	71-111
53-70-3	Dibenzo(a,h)anthracene	10	9.4	94	71-114
206-44-0	Fluoranthene	20	19.7	99	68-110
86-73-7	Fluorene	20	19.1	96	63-102
193-39-5	Indeno(1,2,3-cd)pyrene	10	9.2	92	69-110
91-20-3	Naphthalene	20	16.1	81	55-94
90-12-0	1-Methylnaphthalene	20	17.2	86	55-97
91-57-6	2-Methylnaphthalene	20	16.9	85	51-97
85-01-8	Phenanthrene	20	19.8	99	67-108
129-00-0	Pyrene	20	20.3	102	71-107

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	96%	43-121%
92-94-4	p-Terphenyl	86%	30-122%

Blank Spike Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27527-BS	IJ53827.D	1	12/22/08	SL	12/19/08	OP27527	GIJ1911

The QC reported here applies to the following samples: **Method:** FLORIDA-PRO

F62293-1, F62293-2, F62293-3, F62293-4, F62293-5, F62293-6, F62293-7, F62293-8, F62293-9, F62293-10, F62293-11, F62293-12, F62293-13, F62293-14, F62293-15, F62293-16, F62293-17

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C8-C40)	0.85	0.697	82	54-110

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	104%	38-122%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27528-MS	AA047094.D	1	12/22/08	FEA	12/19/08	OP27528	GAA1888
OP27528-MSD	AA047095.D	1	12/22/08	FEA	12/19/08	OP27528	GAA1888
F62293-5 [a]	AA047093.D	1	12/22/08	FEA	12/19/08	OP27528	GAA1888

The QC reported here applies to the following samples: **Method:** SW846 8310

F62293-1, F62293-2, F62293-3, F62293-4, F62293-5, F62293-6, F62293-7, F62293-8, F62293-9, F62293-10, F62293-11, F62293-12, F62293-13, F62293-14, F62293-15, F62293-16, F62293-17

CAS No.	Compound	F62293-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	2.0	U	38.5	32.7	85	29.2	76	11	60-102/33
208-96-8	Acenaphthylene	2.0	U	38.5	36.8	96	32.6	85	12	66-108/32
120-12-7	Anthracene	2.0	U	19.2	18.0	94	16.8	87	7	64-107/28
56-55-3	Benzo(a)anthracene	0.20	U	19.2	18.6	97	18.2	95	2	70-108/19
50-32-8	Benzo(a)pyrene	0.20	U	19.2	19.1	99	18.5	96	3	72-115/20
205-99-2	Benzo(b)fluoranthene	0.20	U	19.2	18.8	98	18.3	95	3	73-111/20
191-24-2	Benzo(g,h,i)perylene	0.20	U	19.2	18.3	95	17.8	93	3	69-113/22
207-08-9	Benzo(k)fluoranthene	0.20	U	19.2	18.6	97	18.1	94	3	70-111/21
218-01-9	Chrysene	2.0	U	19.2	35.4	184* [b]	62.6	326* [b]	56*	71-111/20
53-70-3	Dibenzo(a,h)anthracene	0.20	U	19.2	18.8	98	18.3	95	3	71-114/23
206-44-0	Fluoranthene	2.0	U	38.5	36.1	94	35.0	91	3	68-110/17
86-73-7	Fluorene	2.0	U	38.5	33.5	87	30.2	79	10	63-102/25
193-39-5	Indeno(1,2,3-cd)pyrene	0.20	U	19.2	18.2	95	17.7	92	3	69-110/22
91-20-3	Naphthalene	24.7		38.5	52.3	72	45.3	54*	14	55-94/28
90-12-0	1-Methylnaphthalene	2.0	U	38.5	31.3	81	28.1	73	11	55-97/29
91-57-6	2-Methylnaphthalene	2.0	U	38.5	33.5	87	29.7	77	12	51-97/25
85-01-8	Phenanthrene	2.0	U	38.5	35.2	92	33.0	86	6	67-108/22
129-00-0	Pyrene	2.0	U	38.5	37.8	98	37.3	97	1	71-107/17

CAS No.	Surrogate Recoveries	MS	MSD	F62293-5	Limits
84-15-1	o-Terphenyl	89%	85%	89%	43-121%
92-94-4	p-Terphenyl	87%	86%	82%	30-122%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Outside control limits due to matrix interference.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F62293
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27527-MS	IJ53862.D	1	12/22/08	SL	12/19/08	OP27527	GIJ1911
OP27527-MSD	IJ53863.D	1	12/22/08	SL	12/19/08	OP27527	GIJ1911
F62293-8	IJ53861.D	1	12/22/08	SL	12/19/08	OP27527	GIJ1911

The QC reported here applies to the following samples: **Method:** FLORIDA-PRO

F62293-1, F62293-2, F62293-3, F62293-4, F62293-5, F62293-6, F62293-7, F62293-8, F62293-9, F62293-10, F62293-11, F62293-12, F62293-13, F62293-14, F62293-15, F62293-16, F62293-17

CAS No.	Compound	F62293-8 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C8-C40)	0.182	I	1.63	1.67	91	1.60	87	4	54-110/28

CAS No.	Surrogate Recoveries	MS	MSD	F62293-8	Limits
84-15-1	o-Terphenyl	101%	100%	101%	38-122%

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F62293
Account: SIESNCR - Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP12290/GN33252	2.0	<2.0	mg/l	50	53.2	106.4	90-110%
Dissolved Carbon	GP12296/GN33293	1.0	<1.0	mg/l	15	15.8	105.3	90-110%
Dissolved Carbon	GP12297/GN33293	1.0	<1.0	mg/l	15	16.0	106.7	90-110%
Dissolved Organic Carbon	GP12307/GN33304	1.0	<1.0	mg/l	15	15.3	102.0	90-110%
Dissolved Organic Carbon	GP12308/GN33304	1.0	<1.0	mg/l	15	15.1	100.7	90-110%
Nitrogen, Nitrate	GP12290/GN33252	0.10	<0.10	mg/l	2.5	2.35	94.0	90-110%
Nitrogen, Nitrite	GP12290/GN33252	0.10	<0.10	mg/l	2.5	2.26	90.4	90-110%
Sulfate	GP12290/GN33252	2.0	<2.0	mg/l	50	54.5	109.0	90-110%
Sulfide	GN33256	1.0	<1.0	mg/l	13.4	12.8	95.3	76-112%

Associated Samples:
Batch GN33256: F62293-1, F62293-10, F62293-11, F62293-13, F62293-14, F62293-4, F62293-6, F62293-8
Batch GP12290: F62293-1, F62293-10, F62293-11, F62293-13, F62293-14, F62293-4, F62293-6, F62293-8
Batch GP12296: F62293-1, F62293-4, F62293-6, F62293-8
Batch GP12297: F62293-10, F62293-11, F62293-13, F62293-14
Batch GP12307: F62293-1, F62293-4, F62293-6, F62293-8
Batch GP12308: F62293-10, F62293-11, F62293-13, F62293-14
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F62293
Account: SIESNCR - Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP12290/GN33259	F62293-1	mg/l	11.6	50	63.7	104.2	90-110%
Dissolved Carbon	GP12296/GN33293	F62144-3A	mg/l	85.0	15	68.7	0.0(a)	90-110%
Dissolved Carbon	GP12297/GN33293	F62188-1A	mg/l	54.8	15	49.3	0.0N	90-110%
Dissolved Organic Carbon	GP12307/GN33304	F62144-1A	mg/l	<1.0	15	13.0	82.1N(b)	90-110%
Dissolved Organic Carbon	GP12308/GN33304	F62188-1A	mg/l	<1.0	15	12.1	76.5N(b)	90-110%
Nitrogen, Nitrate	GP12290/GN33259	F62293-1	mg/l	0.10 U	2.5	3.1	124.0N(b)	90-110%
Nitrogen, Nitrite	GP12290/GN33259	F62293-1	mg/l	1.5	2.5	3.0	60.0N(b)	90-110%
Sulfate	GP12290/GN33259	F62293-1	mg/l	450	50	501	102.0	90-110%
Sulfide	GN33256	F62284-1	mg/l	1.3	10.7	12.1	101.0	76-112%

Associated Samples:
Batch GN33256: F62293-1, F62293-10, F62293-11, F62293-13, F62293-14, F62293-4, F62293-6, F62293-8
Batch GP12290: F62293-1, F62293-10, F62293-11, F62293-13, F62293-14, F62293-4, F62293-6, F62293-8
Batch GP12296: F62293-1, F62293-4, F62293-6, F62293-8
Batch GP12297: F62293-10, F62293-11, F62293-13, F62293-14
Batch GP12307: F62293-1, F62293-4, F62293-6, F62293-8
Batch GP12308: F62293-10, F62293-11, F62293-13, F62293-14
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(b) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F62293
Account: SIESNCR - Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP12290/GN33259	F62293-1	mg/l	11.6	11.7	0.9	0-20%
Dissolved Carbon	GP12296/GN33293	F62144-3A	mg/l	85.0	82.0	3.6	0-20%
Dissolved Carbon	GP12297/GN33293	F62188-1A	mg/l	54.8	51.9	5.4	0-20%
Dissolved Organic Carbon	GP12307/GN33304	F62144-1A	mg/l	<1.0	<1.0	5.6	0-20%
Dissolved Organic Carbon	GP12308/GN33304	F62188-1A	mg/l	<1.0	<1.0	1.6	0-20%
Nitrogen, Nitrate	GP12290/GN33259	F62293-1	mg/l	0.10 U	<0.10	0.0	0-20%
Nitrogen, Nitrite	GP12290/GN33259	F62293-1	mg/l	1.5	1.6	6.5	0-20%
Sulfate	GP12290/GN33259	F62293-1	mg/l	450	449	0.2	0-20%
Sulfide	GN33256	F62284-1	mg/l	1.3	1.6	22.5	0-34%

Associated Samples:
Batch GN33256: F62293-1, F62293-10, F62293-11, F62293-13, F62293-14, F62293-4, F62293-6, F62293-8
Batch GP12290: F62293-1, F62293-10, F62293-11, F62293-13, F62293-14, F62293-4, F62293-6, F62293-8
Batch GP12296: F62293-1, F62293-4, F62293-6, F62293-8
Batch GP12297: F62293-10, F62293-11, F62293-13, F62293-14
Batch GP12307: F62293-1, F62293-4, F62293-6, F62293-8
Batch GP12308: F62293-10, F62293-11, F62293-13, F62293-14
(*) Outside of QC limits

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7