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NAS CECIL FIELD, FL
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FIRST QUARTER JUNE 2009 LONG TERM MONITORING REPORT FOR BUILDING 271 NAS
CECIL FIELD FL
11/9/2009
SOLUTIONS-IES INC

**FIRST QUARTER, JUNE 2009
LONG TERM MONITORING REPORT**

**BUILDING 271
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

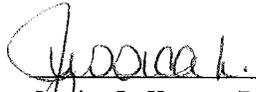
Solutions-IES Project No. 8030.08A2.NAVF

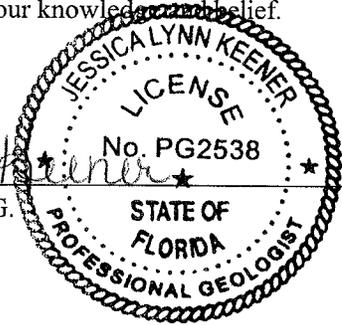
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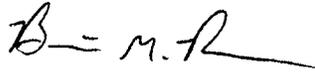
We, the undersigned, do hereby affirm that the information contained in this report is accurate and correct to the best of our knowledge and belief.


Jessica L. Keener, P.G.
Project Manager



11/9/09
Date

#2538
Registration No.



Brian M. Rebar
Senior Project Manager

11/9/09
Date

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1.0 INTRODUCTION

Solutions-IES, Inc. (Solutions-IES) has been contracted by the Navy (NAVFAC Southeast), to provide long-term groundwater monitoring services at Building 271, 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. This Monitoring Report details the activities performed at the site on June 11, 2009.

1.1 SITE HISTORY

The Building 271 site is located at the corner of Cecil Pines Street (formerly 9th Street) and Pool Side Avenue (formerly "B" Avenue) at NAS Cecil Field. A site location map is included as **Figure 1**.

Building 271 was a former retail gasoline facility that had four underground storage tanks (USTs), identified as 271-D, 271-R, 271-UL and 271-SUL, along with two oil water separators. The USTs were located in a tank pit on the west side of Building 271, and the oil water separators (OWSs) were located on the east side of the building. Three of the USTs had an approximate capacity of 10,000 gallons each and one had approximately 6,000 gallons of capacity (TtNUS, 2002).

UST closure records indicate that UST 271-D and associated piping were removed from the site on March 5, 1996. No soil or groundwater contamination was detected at that time. However, a Confirmatory Sampling Report, prepared in July 1999 for the USTs and two OWSs, indicated that petroleum-impacted soil was encountered at two locations due to operation of the USTs. A site assessment was recommended and a site assessment plan was prepared.

Subsequent to completion of assessment activities, the three remaining USTs and associated piping were removed from the site. Soil contamination issues were addressed at that time by excavation. However, groundwater samples collected after removal activities indicated the presence of volatile organic compounds (VOCs). A second investigation was recommended and planned to further define the extent of groundwater contamination.

Both OWSs were removed from the site, and Limited Closure Assessment Reports were prepared and submitted to the Florida Department of Environmental Protection (FDEP) in April 2001 (CH2MHill, 2001). These reports indicated that no petroleum contamination existed in the soil or groundwater

surrounding the OWSs. A May 2002 Site Assessment Report concluded that petroleum constituents remained in groundwater in the vicinity of the former USTs though soil impacts had previously been removed. Preparation of a Remedial Action Plan (RAP) to address groundwater impacts at the site was recommended.

A RAP was prepared and submitted to the FDEP by Tetra Tech NUS, Inc. in September 2002, with an Addendum submitted in January 2003. Air Sparge (AS) was the selected remedial technology. FDEP approval for these documents was received in February 2003.

The AS system was installed at the site between September and November 2003 and began operation on November 17, 2003. The system is connected to seven air sparge wells that are screened from approximately 28 to 30 feet below ground surface (ft bgs). Minor troubleshooting and repairs were conducted on the system in February and March 2008. The system has not operated since late 2008.

2.0 GROUNDWATER MONITORING SUMMARY

During the first quarter monitoring event, at the request of FDEP, Solutions-IES measured water levels from all on-site monitoring wells and collected samples from the same wells, except well CEF-271-02S. Samples were collected for benzene, toluene, ethylbenzene and xylenes (BTEX); methyl-*tert*-butyl-ether (MTBE); 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-271-01S	BTEX & MTBE, PAHs, TRPH and NA
CEF-271-02S	Water Level Only
CEF-271-01I	BTEX & MTBE, PAHs, TRPH and NA
CEF-271-03S	BTEX & MTBE, PAHs, TRPH and NA
CEF-271-04SR	BTEX & MTBE, PAHs, TRPH and NA
CEF-271-05SR	BTEX & MTBE, PAHs, TRPH and NA
CEF-271-06SR	BTEX & MTBE, PAHs, TRPH and NA
CEF-271-07S	BTEX & MTBE, PAHs,

	TRPH and NA
CEF-271-08S	BTEX & MTBE, PAHs, TRPH and NA
CEF-271-09S	BTEX & MTBE, PAHs, TRPH and NA
CEF-271-10S	BTEX & MTBE, PAHs, TRPH and NA
CEF-271-11S	BTEX & MTBE, PAHs, TRPH and NA
CEF-271-12S	BTEX & MTBE, PAHs, TRPH and NA

Analysis	Constituents	Analytical Method
VOCs	BTEX & MTBE	8260B
PAHs	16 listed 1-methylnaphthalene 2-methylnaphthalene	8270C-SIM
TRPH		FL-PRO
NA Parameters	Dissolved Oxygen	CHEMetrics® Kit
Field Parameters	Temperature pH Conductivity Oxidation-Reduction Potential Turbidity	Direct-reading meter

2.1 MONITORING WELL OBSERVATIONS

The integrity of the monitoring wells included in the long-term monitoring plan was evaluated during the sampling event. The field team noted no extensive damage (i.e., the need for well replacement or repair) to the wells during the June 2009 event.

2.2 WATER LEVEL MEASUREMENTS

Water level measurements were recorded for the 13 wells listed above on June 11, 2009. **Table 1** shows historical groundwater measurements at the site.

Based on this information, groundwater appears to flow towards the southeast at the Building 271 site which is consistent with previous reports. A groundwater contour map, showing the groundwater elevations measured during the June 2009 event has been included as **Figure 3**.

2.3 GROUNDWATER SAMPLING

Groundwater sampling was conducted at the Building 271 site on June 11, 2009. Twelve monitoring wells were purged and sampled using low-flow methodology.

Wells were purged immediately prior to sampling using a low flow peristaltic pump, at a rate equal to or less than the groundwater recharge rate, until field parameters (temperature, pH, conductivity, turbidity and dissolved oxygen [DO]) stabilized. Water levels in the wells were continuously monitored to maintain minimal drawdown. Oxidation-reduction potential (ORP) readings were also recorded during purging.

Samples were collected for field analysis of DO using CHEMetrics[®] field test kits. Results of the 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 (September 29, 2008). All samples collected were stored on ice and delivered via courier to Accutest Laboratories Southeast, Inc. (Accutest), a Florida-certified, National Environmental Laboratory Accreditation Program (NELAP) certified laboratory, located in Orlando, under chain-of-custody procedures.

2.4 INVESTIGATION DERIVED WASTE (IDW)

Purge, wash and rinse water was collected in 5-gallon containers and transferred to a labeled 55-gallon drum (Drum ID SIES-001-6102009). The drum was staged in the IDW Storage Building (Building 536). The NAS Jacksonville Public Works Department (PWD-JAX) was notified on June 18, 2009 that the drum was stored in the building. The non-hazardous data package for disposal was forwarded to PWD-JAX on July 10, 2009.

3.0 SAMPLING AND ANALYTICAL RESULTS

3.1 DATA VALIDATION

Accutest data analysts validated the data according to laboratory Standard Operating Procedures (SOPs). None of the data were rejected as a result of the data review or any constituents outside of control limits.

However, several matrix spike and matrix spike duplicate recoveries were identified outside of the control limits. The probably cause was identified as matrix interferences. A Level II data report was provided by the laboratory. A copy of the laboratory report is provided in **Appendix B**.

A limited data review was also performed by Solutions-IES. The data review evaluated data completeness, holding time compliance, laboratory blank contamination and detection limits. No issues were identified.

3.2 FIELD AND NATURAL ATTENUATION PARAMETERS

During each sampling event, groundwater samples were analyzed for DO, using a CHEMetrics® kit in the field. In addition, field parameters including temperature, pH, conductivity, turbidity and ORP were measured and recorded during well purging. The results of the field measurements are summarized in **Table 2** and discussed in the following paragraphs.

In June 2009, field measurements indicate that DO concentrations at the Building 271 site ranged from 1.0 to 5.0 mg/L. The DO values recorded in June 2009 show aerobic aquifer conditions. The higher values are a sign that oxygen is present and aerobic biodegradation may be occurring in this area. In general, DO values were higher during this event than during previous sampling events.

ORP is a measure of electron activity of the groundwater. Positive ORP values indicate that an oxidative environment exists in the aquifer and negative ORP values indicate a reducing environment. The ORP measurements collected at the site range from -35.3 to 157.1.

The pH was between 6.08 to 6.95 which is consistent with previous pH measurements at this site. Temperature measurements recorded in June 2009 were higher than March 2009, and turbidity measurements recorded remained generally consistent with the March 2009 measurements.

3.3 LABORATORY ANALYTICAL RESULTS

Results from the June 2009 sampling event, along with historical sampling results are summarized in **Table 3**. Monitoring well CEF-271-07S was the only well that had any detections above the laboratory method detection limits and the Groundwater Cleanup Target Level (GCTL).

Ethylbenzene, 1-methylnaphthalene, 2-methylnaphthalene, TRPH and naphthalene were detected in CEF-271-07S above the laboratory method detection limit. Naphthalene was the only constituent of concern that exceeded its GCTL of 14 µg/L, during the June 2009 event. The exceedance occurred in well CEF-271-07S (23.3 µg/L). The naphthalene concentrations for the previous four sampling events in monitoring well CEF-271-07S are illustrated on **Figure 4** and the historical concentrations are depicted on **Figure 5**. The June 2009 laboratory analytical report is included in **Appendix B**.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Water level data suggests that groundwater at this site flows in a southeasterly direction. This quarter, ethylbenzene, 1-methylnaphthalene, 2-methylnaphthalene, TRPH and naphthalene were detected in CEF-271-07S. Naphthalene was the only constituent that exceeded the GCTLs. Although several parameters had shown an increase following the shut down of the AS system in late 2008, this trend was not identified during the June 2009 sampling event. Concentrations of contaminants of concern in well CEF-271-07S have decreased as compared to the last reporting period. None of the contaminant concentrations exceeded NADSC values during June 2009.

The routine quarterly monitoring program consists of measuring the water levels and collecting groundwater samples from 4 monitoring wells. The June 2009 sampling event was modified to include measuring water levels in all 13 monitoring wells and sampling of 12 monitoring wells. Based on analytical results obtained to date, Solutions-IES recommends measuring water levels and sampling the 4 routine groundwater monitoring wells CEF-271-07S, CEF-271-09S, CEF-271-010S and CEF-271-12S for constituents of concern. The next quarterly sampling is scheduled to be performed in September 2009.

5.0 REFERENCES

CH2MHILL Constructors, Inc. April 2001. *Limited Closure Assessment Report, Oil/Water Separator Removal*. NAS Cecil Field, Jacksonville, Florida.

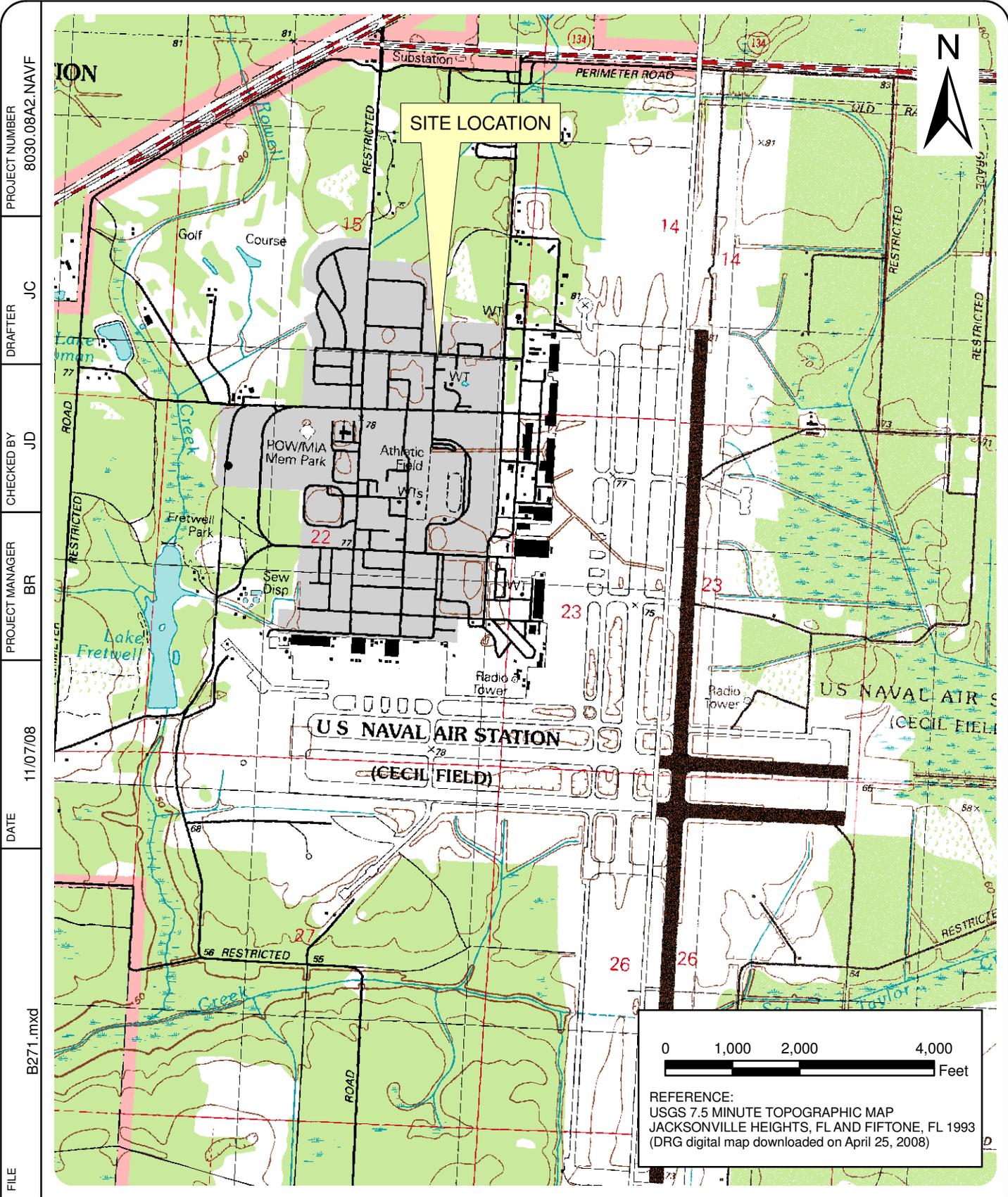
CH2MHILL Constructors, Inc. August 2003. *Work Plan Addendum No. 18, Work Plan Addendum No. 18 Installation of Air Sparging Systems at the Jet Engine Test Cell and Building 271*, Naval Air Station Cecil Field, Jacksonville, Florida.

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

TetraTech NUS, Inc. September 2002. *Remedial Action Plan for Building 271 Tanks
UL/R/SUL/D at Naval Air Station Cecil Field, Jacksonville, Florida.*

TetraTech NUS, Inc. January 2003. *Remedial Action Plan Addendum for Building 271
Tanks UL/R/SUL/D at Naval Air Station Cecil Field, Jacksonville, Florida.*

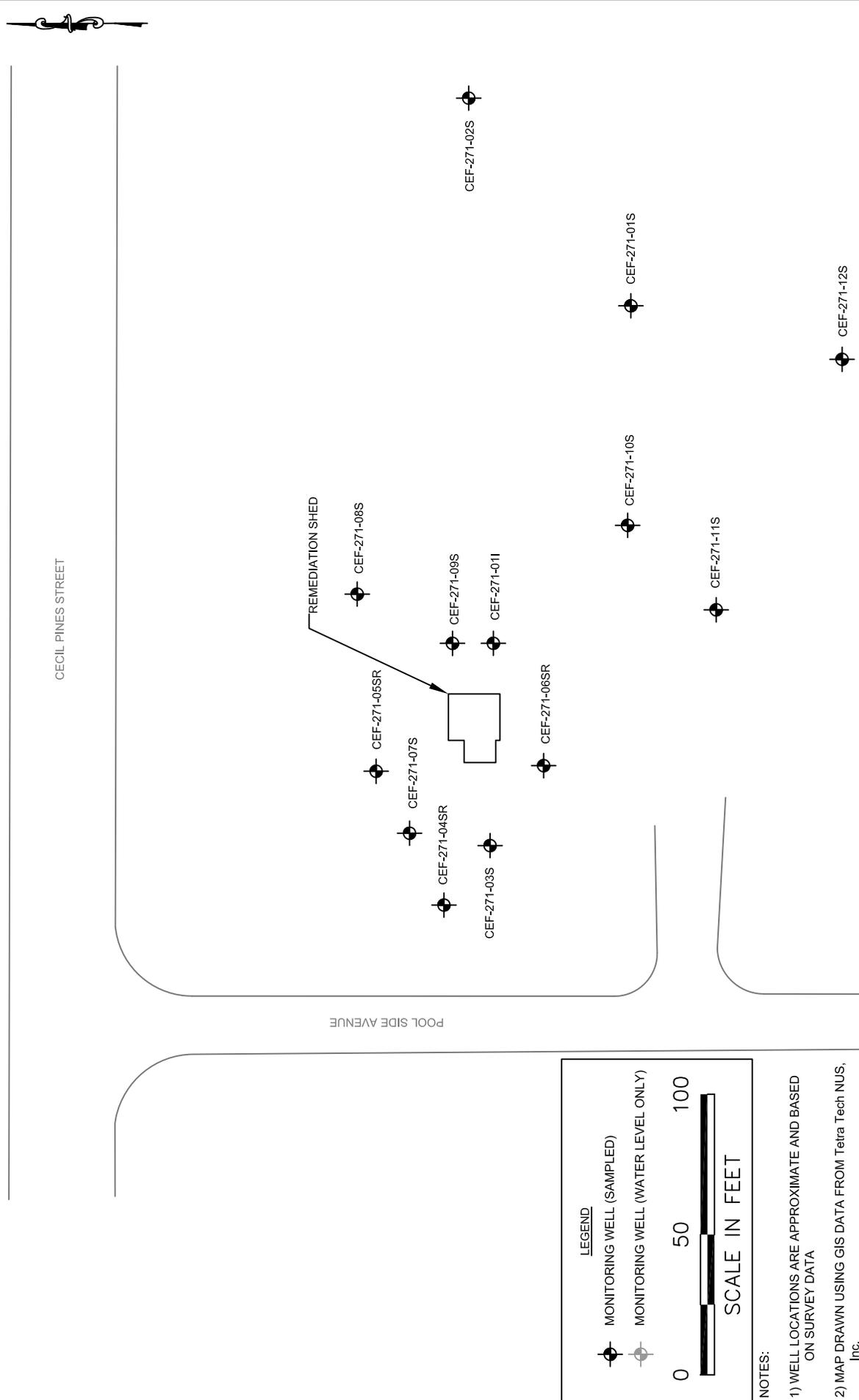
FIGURES



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

FIGURE:
 SITE LOCATION MAP
 BUILDING 271 - NAS CECIL FIELD
 JACKSONVILLE, FL

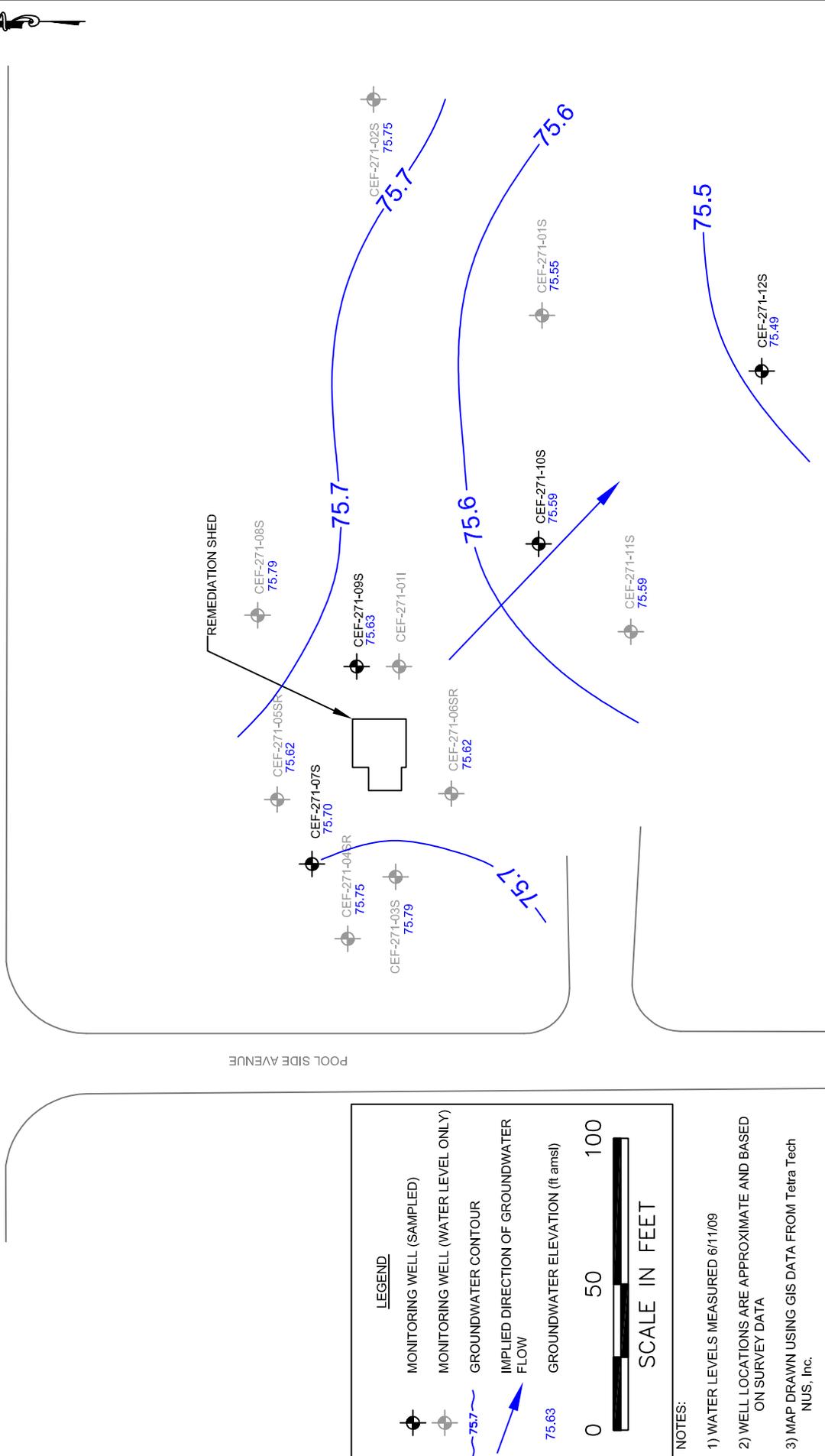
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1101 NOWELL ROAD
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WELL LOCATION MAP
BUILDING 271 - NAS CECIL FIELD
JACKSONVILLE, FL
JUNE 2009

FIGURE:
2



PROJECT MANAGER: BR

DATE: 6/16/09

CHECKED BY: JK

DRAFTER: PL

PROJECT NUMBER: 8030.08A2.NAVF

LEGEND

- MONITORING WELL (SAMPLED)
- MONITORING WELL (WATER LEVEL ONLY)
- GROUNDWATER CONTOUR
- IMPLIED DIRECTION OF GROUNDWATER FLOW
- GROUNDWATER ELEVATION (ft amsl)

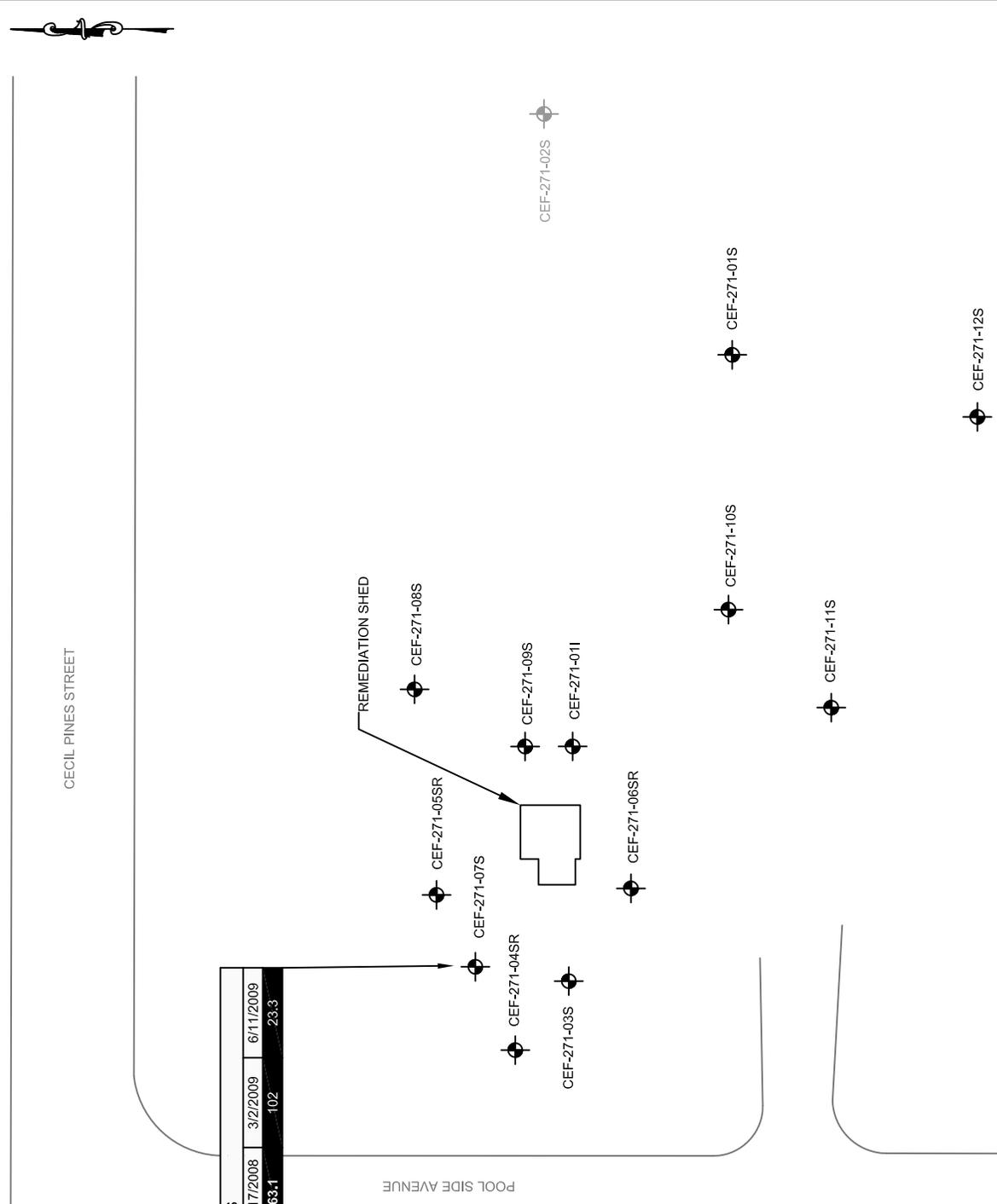
0 50 100
 SCALE IN FEET

NOTES:

- 1) WATER LEVELS MEASURED 6/11/09
- 2) WELL LOCATIONS ARE APPROXIMATE AND BASED ON SURVEY DATA
- 3) MAP DRAWN USING GIS DATA FROM Tetra Tech NUS, Inc.

Solutions-IES
 Industrial & Environmental Services

1101 NOWELL ROAD
 RALEIGH, NORTH CAROLINA 27607
 TEL.: (919) 873-1060 FAX.: (919) 873-1074



LEGEND

- Monitoring Well (Sampled)
- Monitoring Well (Water Level Only)

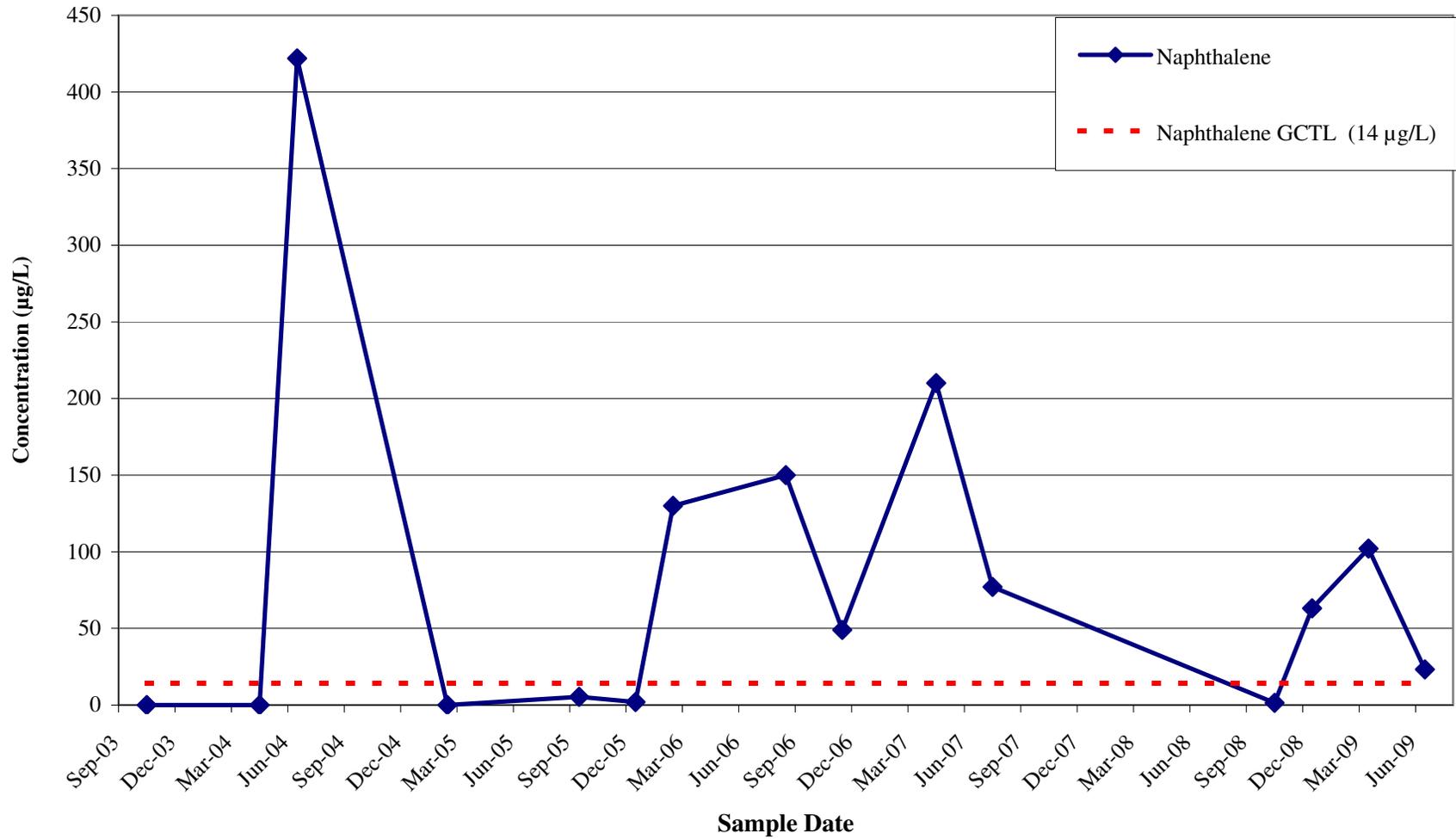
23.3 EXCEEDENCE OF GCTL¹

0 50 100
SCALE IN FEET

NOTES:

- GCTL - GROUNDWATER CLEANUP TARGET LEVEL.
- WELL LOCATIONS ARE APPROXIMATE AND BASED ON SURVEY DATA.
- MAP DRAWN USING GIS DATA FROM Tetra Tech NUS, Inc.

FIGURE 5
Historical Concentrations of Naphthalene In CEF-271-07S



TABLES

**TABLE 1
GROUNDWATER ELEVATIONS**

BUILDING 271
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Groundwater (ft bosc)	Groundwater Elevation (ft amsl)
CEF-271-01S	10/2003	81.15	6.93	74.22
	11/12/2003		9.98	71.17
	11/24/2003		9.32	71.83
	12/1/2003		8.88	72.27
	12/8/2003		9.00	72.15
	12/15/2003		9.45	71.7
	1/2004		9.76	71.39
	3/2004		10.65	70.5
	6/2004		10.01	71.14
	9/2004		4.15	77
	12/2004		7.11	74.04
	9/2005		6.25	74.9
	12/2005		7.65	73.5
	2/2006		7.34	73.81
	8/2006		11.12	70.03
	4/2007		11.60	69.55
6/11/2009	5.60	75.55		
CEF-271-02S	10/2003	80.68	6.21	74.47
	11/12/2003		9.55	71.13
	11/24/2003		8.90	71.78
	12/1/2003		8.20	72.48
	12/8/2003		8.29	72.39
	12/15/2003		8.58	72.1
	1/2004		9.10	71.58
	3/2004		9.79	70.89
	6/2004		9.30	71.38
	9/2004		4.62	76.06
	12/2004		7.58	73.1
	9/2005		5.54	75.14
	12/2005		6.91	73.77
	2/2006		6.64	74.04
	8/2006		10.44	70.24
	4/2007		10.89	69.79
6/11/2009	4.93	75.75		
CEF-271-03S	10/2003	79.88	5.51	74.37
	11/12/2003		8.84	71.04
	11/24/2003		7.42	72.46
	12/1/2003		7.13	72.75
	12/8/2003		7.42	72.46
	12/15/2003		8.41	71.47
	1/2004		8.11	71.77
	3/2004		9.63	70.25
	6/2004		8.40	71.48
	9/2004		2.87	77.01
	12/2004		5.93	73.95
	9/2005		6.66	73.22
	12/2005		6.22	73.66
	2/2006		5.22	74.66
	8/2006		9.66	70.22
	4/2007		10.05	69.83
6/11/2009	4.09	75.79		
CEF-271-04SR	10/2003	79.27	4.85	74.42
	11/12/2003		8.53	70.74
	11/24/2003		6.69	72.58
	12/1/2003		6.35	72.92
	12/8/2003		6.78	72.49
	12/15/2003		7.65	71.62
	1/2004		7.34	71.93
	3/2004		8.85	70.42
	6/2004		7.71	71.56
	9/2004		2.61	76.66
	12/2004		5.76	73.51
	9/2005		4.13	75.14
	12/2005		5.55	73.72
	2/2006		4.56	74.71
	8/2006		9.00	70.27
	4/2007		9.40	69.87
6/11/2009	3.52	75.75		
CEF-271-05SR	10/2003	79.85	5.54	70.35
	11/12/2003		9.50	72.31
	11/24/2003		7.54	72.72
	12/1/2003		7.13	72.05
	12/8/2003		7.80	70.93
	12/15/2003		8.92	71.72
	1/2004		8.13	70.7
	3/2004		9.15	71.41
	6/2004		8.44	75.26
	9/2004		4.59	72.45
	12/2004		7.40	75
	9/2005		4.85	73.59
	12/2005		6.26	74.24
	2/2006		5.61	70.13
	8/2006		9.72	75.62
	4/2007		9.95	73.62
6/11/2009	4.23	75.62		

**TABLE 1
GROUNDWATER ELEVATIONS**

BUILDING 271
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Groundwater (ft btoe)	Groundwater Elevation (ft amsl)
CEF-271-06S	10/2003	80.5	6.23	74.27
	11/12/2003		9.48	71.02
	11/24/2003		8.28	72.22
	12/1/2003		7.99	72.51
	12/8/2003		8.18	72.32
	12/15/2003		9.50	71
	1/2004		8.85	71.65
	3/2004		10.69	69.81
	6/2004		9.14	71.36
	9/2004		4.53	75.97
	12/2004		7.59	72.91
	9/2005		5.55	74.95
	12/2005		6.96	73.54
	2/2006		6.07	74.43
	8/2006		10.39	70.11
	4/2007		10.73	69.77
6/11/2009	4.88	75.62		
CEF-271-011	6/11/2009	80.56	5.01	75.55
CEF-271-07S	10/2003	79.99	5.69	74.30
	11/12/2003		9.39	70.60
	11/24/2003		7.67	72.32
	12/1/2003		7.25	72.74
	12/8/2003		8.53	71.46
	12/15/2003		9.27	70.72
	1/2004		8.11	71.88
	3/2004		10.23	69.76
	6/2004		8.54	71.45
	9/2004		3.46	76.53
	12/2004		6.63	73.36
	9/2005		4.92	75.07
	12/2005		6.33	73.66
	2/2006		4.49	75.50
	8/2006		9.79	70.20
	4/2007		9.98	70.01
	7/2007		8.85	71.14
	10/7/2008		5.02	74.97
	12/17/2008		8.19	71.80
	3/2/2009		7.84	72.15
6/11/2009	4.29	75.70		
CEF-271-08S	6/11/2009	80.89	5.10	75.79
CEF-271-09S	10/2003	80.51	6.23	74.28
	11/12/2003		9.69	70.82
	11/24/2003		8.93	71.58
	12/1/2003		8.66	71.85
	12/8/2003		9.62	70.89
	12/15/2003		10.21	70.30
	1/2004		8.58	71.93
	3/2004		10.51	70.00
	6/2004		9.15	71.36
	9/2004		3.91	76.60
	12/2004		6.88	73.63
	9/2005		5.53	74.98
	12/2005		6.95	73.56
	2/2006		6.14	74.37
	8/2006		10.41	70.10
	4/2007		10.83	69.68
	7/2007		9.44	71.07
	10/7/2008		5.62	74.89
	12/17/2008		8.76	71.75
	3/2/2009		8.74	71.77
6/11/2009	4.88	75.63		
CEF-271-10S	10/2003	81.18	6.95	74.23
	11/12/2003		9.91	71.27
	11/24/2003		9.16	72.02
	12/1/2003		8.86	72.32
	12/8/2003		9.03	72.15
	12/15/2003		10.28	70.90
	1/2004		9.55	71.63
	3/2004		10.86	70.32
	6/2004		9.98	71.20
	9/2004		4.63	76.55
	12/2004		7.65	73.53
	9/2005		6.29	74.89
	12/2005		7.70	73.48
	2/2006		6.92	74.26
	8/2006		11.16	70.02
	4/2007		11.64	69.54
	7/2007		10.90	70.28
	10/7/2008		6.32	74.86
	12/17/2008		9.50	71.68
	3/2/2009		9.20	71.98
6/11/2009	5.59	75.59		

**TABLE 1
GROUNDWATER ELEVATIONS**

BUILDING 271
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft amsl)
CEF-271-11S	6/11/2009	80.29	4.70	75.59
	10/2003		6.30	73.89
CEF-271-12S	11/12/2003		8.66	71.53
	11/24/2003		8.20	71.99
	12/1/2003		8.08	72.11
	12/8/2003		8.18	72.01
	12/15/2003		8.58	71.61
	1/2004		8.92	71.27
	3/2004		9.36	70.83
	6/2004		9.21	70.98
	9/2004		3.71	76.48
	12/2004	80.19	6.56	73.63
	9/2005		5.41	74.78
	12/2005		6.83	73.36
	2/2006		6.55	73.64
	8/2006		10.29	69.90
	4/2007		11.31	68.88
	7/2007		9.32	70.87
	10/7/2008		5.44	74.75
	12/17/2008		8.62	71.57
	3/2/2009		8.30	71.89
	6/11/2009		4.70	75.49

Notes: ft amsl - feet above mean sea level
ft btoc - feet below top of casing

**TABLE 2
FIELD ANALYTICAL RESULTS**

BUILDING 271
NAS CECIL FIELD JACKSONVILLE, FLORIDA

Well ID	Date Measured	Temperature (°C)	pH (SU)	Specific Conductance (µs/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
CEF-271-01S	6/11/09	22.83	6.53	608	4.0	10.5	4.12
CEF-271-01I	6/11/09	22.97	6.19	160	1.5	9.8	12
CEF-271-03S	6/11/09	25.11	6.71	333	5.0	141.8	27.1
CEF-271-04SR	6/11/09	24.07	6.47	243	5.0	157.1	14.8
CEF-271-05SR	6/11/09	24.13	6.22	223	3.0	8.8	12.1
CEF-271-06SR	6/11/09	23.87	6.95	411	5.0	62.1	5.28
CEF-271-07S	4/18/07	21.31	6.57	958	0.49	-170.4	5
	7/23/07	25.7	6.51	911	0.33	NM	2.7
	10/7/08	26.89	7.67	681	0.26	-132	4
	12/17/08	23.80	6.65	740	0.3	-190	10.8
	3/2/09	18.25	6.68	736	0.7	-42.5	10.81
	6/11/09	27.00	6.25	826	1.0	-31.3	11.4
CEF-271-08S	6/11/09	24.21	6.08	663	1.0	9.9	5.44
CEF-271-09S	4/18/07	19.55	6.9	235	2.61	-115.5	>1000
	7/23/07	26.0	6.64	239	1.59	NM	600
	10/7/08	28.59	8.15	262	3.23	-45.9	69
	12/17/08	23.95	7.2	204	1.0	NM	398
	3/2/09	16.61	6.93	140	6.0	145.9	245
	6/11/09	24.40	6.80	324	3.0	45.1	4.19
	CEF-271-10S	4/18/07	19.22	6.29	272	0.9	96.4
7/23/07	25.8	6.25	269	1.27	NM	20	
10/7/08	27.24	7.06	438	5.25	58	5.54	
12/17/08	24.39	7.34	409	2.0	-36	8	
3/2/09	18.55	6.37	411	1.0	75.4	4.01	
6/11/09	25.06	6.80	590	5.0	-10.2	3.02	
CEF-271-11S	6/11/09	23.95	6.54	536	4.0	135.5	5.17
CEF-271-12S	4/18/07	18.35	5.95	189	1.03	-24.8	140
	7/23/07	23.1	5.94	202	0.3	NM	427
	10/7/08	23.65	6.44	368	3.56	61.9	30.7
	12/17/08	21.10	6.61	549	0.6	111.5	20
	3/2/09	17.09	6.53	335	1.0	68.7	19
	6/11/09	23.99	6.64	291	3.5	-35.3	16.9

Notes: °C - Degrees Celsius

SU - Standard Units

µs/cm - Microsiemens per centimeter

mg/L - Milligrams per liter

mV - Millivolts

NTU - Nephelometric Turbidity Unit

NM - Not Measured

TABLE 3
LABORATORY ANALYTICAL RESULTS

BUILDING 271
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	METHYL TERT-BUTYL ETHER	XYLENES	TOLUENE	1-METHYLNAPHTHALENE	2-METHYLNAPHTHALENE	NAPHTHALENE	
GCTL (µg/L)		1	30	20	20	40	28	28	14	5000
NADSC (µg/L)		100	300	500	200	400	200	200	200	50000
CEF-271-011	6/11/2009	<0.50	<0.50	<0.50	<1.0	<0.50	<0.24	<0.24	<0.24	<160
CEF-271-01S	6/11/2009	<0.50	<0.50	<0.50	<1.0	<0.50	<0.24	<0.24	<0.24	<160
CEF-271-03S	6/11/2009	<0.50	<0.50	<0.50	<1.0	<0.50	<0.24	<0.24	<0.24	<160
CEF-271-04SR	6/11/2009	<0.50	<0.50	<0.50	<1.0	<0.50	<0.24	<0.24	<0.24	<160
CEF-271-05SR	6/11/2009	<0.50	<0.50	<0.50	<1.0	<0.50	<0.24	<0.24	<0.24	<160
CEF-271-06SR	6/11/2009	<0.50	<0.50	<0.50	<1.0	<0.50	<0.24	<0.24	<0.24	<160
CEF-271-07S	08/24/2001	89	520	11	3300	2900	-	-	-	<4100
	10/28/2003	<188	<398	<50	<1690	<1180	<21.1	<58.9	<184	-
	12/02/2003	-	-	-	-	-	-	-	-	-
	12/10/2003	-	-	-	-	-	-	-	-	-
	12/15/2003	-	-	-	-	-	-	-	-	-
	01/20/2004	-	-	-	-	-	-	-	-	-
	04/07/2004	-	-	-	-	-	-	-	-	-
	04/26/2004	324 J	<133	<25	17.2 J	16.7 J	37 J	<74	<476	-
	06/24/2004	-	-	-	-	-	-	-	-	-
	6/24/2004**	165 J	<14	2.1 J	48.2 J	4.42 J	<44.5	<86.3	<422	-
	09/22/2004	-	-	-	-	-	-	-	-	-
	09/24/2004	<32.2	<6.37	1.12 J	<58.2	3.65 J	<24.1	<43.6	<178	-
	02/15/2005	<5	<50	<50	2910 J	<123	93.4 J	83.6 J	<430	-
	09/03/2005	3.8	3.2	<1.1	-	18	2.1	1.8	5.4	-
	12/04/2005	<0.21	<0.17	<0.35	<0.63	<0.23	<0.12	0.32 I	2	-
	02/26/2006	0.51 I	13	<0.35	190	15	<0.12	25	130	-
	08/21/2006	<0.21	15	<0.35	182	8.3	<0.12	11	150	-
	11/18/2006	<0.63	5.8	<1.1	22.8	<0.69	9.7	9.2	49	-
	04/18/2007	<0.63	11	<1	48.5	<0.69	38	52	210	-
	07/23/2007	<0.63	2.9	<1	16.8	<0.69	43	18	77	-
10/7/2008	<0.40	<0.43	<0.26	<1.2	<0.35	0.47 I	<0.24	1.5	414	
12/17/2008	<0.40	0.96 I	<0.26	4.8	<0.35	7.6	9.0	63.1	599	
3/2/2009	0.61 I	3.5	<0.50	19.5	1.1	14.5	20.3	102	2800	
6/11/2009	<0.50	1.2	<0.50	<1.0	<0.50	3.5	1.7	23.3	703	
CEF-271-08S	6/11/2009	<0.50	<0.50	<0.50	<1.0	<0.50	<0.24	<0.24	<0.24	<160
CEF-271-09S	08/24/2001	9.8	36	<10	1600	270	-	-	-	<1600
	10/23/2003	<1.93	<25.8	<5	<98.5	<20.3	0.536 J	1.13 J	5.89 J	-
	04/26/2004	<0.5	<5	<5	3.06 J	<5	<1	<1	<0.25	-
	4/26/2004**	<0.5	<5	<5	3.12 J	<5	<1	<1	<0.25	-
	06/24/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	-
	09/24/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	-
	02/15/2005	<0.5	<5	<5	<10	<5	<1	<1	<0.25	-
	09/03/2005	<0.21	<0.17	<0.35	-	<0.23	<0.12	<0.18	<0.15	-
	12/04/2005	<0.21	<0.17	<0.35	<0.63	<0.23	<0.12	<0.18	<0.15	-
	02/27/2006	<0.21	<0.17	<0.35	<0.63	<0.23	<0.12	<0.18	<0.15	-
	08/21/2006	<0.21	<0.17	<0.35	<0.63	<0.23	<0.12	<0.18	0.18 I	-
	11/18/2006	<0.21	<0.17	<0.35	<0.63	<0.23	<0.12	<0.18	<0.15	-
	04/18/2007	<0.21	<0.17	<0.35	<0.63	<0.23	<0.12	<0.18	<0.15	-
	07/23/2007	<0.21	<0.17	<0.35	<0.63	<0.23	<0.12	<0.18	<0.15	-
	10/7/2008	<0.40	<0.43	<0.26	<1.2	<0.35	<0.24	<0.24	<0.24	<160
	12/17/2008	<0.40	<0.43	<0.26	<1.2	<0.35	<0.24	<0.24	<0.24	175 I
	3/2/2009	<0.50	<0.50	<0.50	<1.0	<0.50	<0.25	<0.25	<0.25	<160
6/11/2009	<0.50	<0.50	<0.50	<1.0	<0.50	<0.25	<0.25	<0.25	200 I	
CEF-271-10S	08/24/2001	1.8	1.2	<10	8	6.2	-	-	-	<1000
	10/27/2003	<0.5	<5	<5	<10	<5	<1	<1	<0.25	-
	04/27/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	-
	6/24/2004**	<0.5	<5	<5	<10	<5	<1	<1	<0.25	-
	09/24/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	-
	02/15/2005	<0.5	<5	<5	<10	<5	<1	<1	<0.25	-
	09/03/2005	<0.21	<0.17	<0.35	-	<0.23	<0.12	<0.18	<0.15	-
	12/04/2005	<0.21	<0.17	<0.35	<0.63	<0.23	<0.12	<0.18	<0.15	-
	02/26/2006	<0.21	<0.17	<0.35	<0.63	<0.23	<0.12	<0.18	<0.15	-
	08/24/2006	<0.21	<0.17	<0.35	<0.63	<0.23	<0.12	<0.18	<0.15	-
	11/18/2006	<0.21	<0.17	<0.35	<0.63	<0.23	<0.12	<0.18	<0.15	-
	04/18/2007	<0.21	<0.17	<0.35	<0.63	<0.23	<0.12	<0.18	<0.15	-
	07/23/2007	<0.21	<0.17	<0.35	<0.63	<0.23	<0.12	<0.18	<0.15	-
	10/7/2008	<0.40	<0.43	<0.26	<1.2	<0.35	<0.24	<0.24	<0.24	<160
	12/17/2008	<0.40	<0.43	<0.26	<1.2	<0.35	<0.24	<0.24	<0.24	168 I
	3/2/2009	<0.50	<0.50	<0.50	<1.0	<0.50	<0.24	<0.24	<0.24	<160
	6/11/2009	<0.50	<0.50	<0.50	<1.0	<0.50	<0.24	<0.24	<0.24	<160
CEF-271-11S	6/11/2009	<0.50	<0.50	<0.50	<1.0	<0.50	<0.24	<0.24	<0.24	<160
CEF-271-12S	08/23/2001	0.44 J	<1	<5	<2	0.35 J	-	-	-	<1000
	10/23/2003	<0.5	<5	<5	<10	<5	<1	<1	<0.25	-
	04/27/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	-
	06/24/2004	<2.04	<5	0.281 J	<10	<5	<1	<1	<0.25	-
	09/24/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	-
	02/15/2005	<0.5	<5	<5	<10	<5	<1	<1	<0.25	-
	09/03/2005	<0.21	<0.17	<0.35	-	<0.23	<0.12	<0.18	<0.15	-
	12/04/2005	<0.21	<0.17	<0.35	<0.63	<0.23	<0.12	<0.18	<0.15	-
	02/26/2006	<0.21	<0.17	<0.35	<0.63	<0.23	<0.12	<0.18	<0.15	-
	08/24/2006	<0.21	<0.17	<0.35	<0.63	<0.23	<0.12	<0.18	<0.15	-
	11/18/2006	<0.21	<0.17	<0.35	<0.63	<0.23	<0.12	<0.18	<0.15	-
	04/18/2007	<0.21	<0.17	<0.35	<0.63	<0.23	<0.12	<0.18	<0.15	-
	07/23/2007	<0.21	<0.17	<0.35	0.63	<0.23	<0.12	<0.18	<0.15	-
	10/7/2008	<0.40	<0.43	<0.26	<1.2	<0.35	<0.24	<0.24	<0.24	164 I
	12/17/2008	<0.40	<0.43	<0.26	<1.2	<0.35	<0.24	<0.24	<0.24	195 I
	3/2/2009	<0.50	<0.50	<0.50	<1.0	<0.50	<0.25	<0.25	<0.25	<170
	6/11/2009	<0.50	<0.50	<0.50	<1.0	<0.50	<0.24	<0.24	<0.24	<160

NOTES: µg/L - Micrograms per liter
GCTL - Groundwater Cleanup Target Level
NADSC - Natural Attenuation Default Source Concentration
Shading indicates values greater than the GCTL
Bold indicates values above the method detection limit.
J - Estimated Concentration
"- " indicates that results are not available.
I - indicates values that are greater than the method detection limit but less than the lab reporting limit

APPENDIX A

GROUNDWATER SAMPLING LOGS

CEF-271-015

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: Building 271 - Cecil Field Site Location: Jacksonville, Florida
 Well Number: CEF-271-011 Sample ID: CEF-271-015 Date: 6/11/09

PURGING DATA

Well Diameter (inches): 1 2 3 4 Tubing Diameter (inches): 1/4 3/8 1/2 Tubing: LDPE Teflon Static Depth to water (feet): 5.63 Purge pump type or bailer: Peristaltic Pump Well Screen Interval Depth: feet to feet
 Initial Pump or Tubing Depth in well: 2' off bottom Purging Initiated: 0840 Purging Ended: 0900 Total Volume Purged (Gallons): 0.75 Sample Pump Flow Rate (mL/min):

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
850	0.3	0.3	150	6.16	6.50	22.77	615	5.21	34.9	-19.9	Clear	—
855	0.2	0.5	150	6.20	6.52	22.78	610	4.95	6.09	4.6		
858	0.1	0.6	125	6.20	6.52	22.74	609	4.88	4.63	13.0		
901	0.1	0.7	125	6.20	6.53	22.83	608	4.72	4.12	10.5		

Well Capacity (Gallons/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 Diameter Capacity (Gallons/foot): 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/Affiliation: Burke Cathy/Terraine Sampler(s) Signature: [Signature] Sampling Initiated: 0900 Sampling Ended: 0927
 Field Decontamination: Y N Field-Filtered: Y N Filter Size: µm Filtration Equipment Type: Duplicate: Y N

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8270C + 1- and 2-methylnaphthalene	PP
	2	AG	1 L	H ₂ SO ₄	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	BTEX & MTBE 8021B	RFPP

Remarks:

Field Kits: DO: 4.00

Material Codes: AG = Amber Glass CG = Clear Glass PE = Polyethylene PP = Polypropylene S = Silicone T = Teflon O = Other (Specify)
 Sampling/Purging: APP = After Peristaltic Pump B = Bailer BP = Bladder Pump ESP = Electric Submersible Pump PP = Peristaltic Pump
 Equipment Codes: RFPP = Reverse Flow Peristaltic Pump SM = Straw Method (Tubing Gravity Drain) VT = Vacuum Trap O = Other (Specify)
 Stabilization criteria for range of variation of last three consecutive readings: pH: + 0.2 units Temperature: + 0.2°C Specific Conductance: + 5%
 Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
 Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

**SOLUTIONS-IES
GROUNDWATER SAMPLING LOG**

Site Name: Building 271 - Cecil Field **Site Location:** Jacksonville, Florida

Well Number: CEF-271-04SR **Sample ID:** **Date:** 6/11/09

PURGING DATA

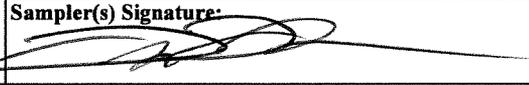
Well Diameter (inches): 1 2 3 4 **Tubing Diameter (inches):** 1/4 3/8 1/2 **Tubing:** LDPE Teflon **Static Depth to water (feet):** 3.59 **Purge pump type or bailer:** Peristaltic Pump **Well Screen Interval Depth:** feet to feet

Initial Pump or Tubing Depth in well: 2 feet from bottom **Purging Initiated:** 829 **Purging Ended:** 919 **Total Volume Purged (Gallons):** 2.15 **Sample Pump Flow Rate (mL/min):** 250

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
834	.2	.2	300	3.91	6.48	23.57	246	5.88	221	80.3	cloudy	—
839	.3	.5	250	3.91	6.48	23.68	246	5.35	286	107.2	cloudy	—
844	.35	.85	250	3.92	6.47	23.84	245	5.26	263	125.7	"	—
849	.35	1.2	250	3.92	6.48	23.84	244	4.91	255	136.5	"	—
854	.35	1.55	250	3.92	6.47	23.87	244	4.90	150	143.4	"	—
859	.35	1.9	250	3.92	6.47	23.89	244	4.75	79.1	146.7	"	—
905	.4	1.3	250	3.92	6.47	23.87	245	4.68	48.0	150.0	—	—
910	.3	1.6	250	3.93	6.47	24.07	244	4.71	22.9	151.6	—	—
915	.3	1.9	250	3.93	6.48	24.11	243	4.94	17.6	154.5	—	—
918	.25	2.15	250	3.93	6.47	24.07	243	5.05	14.8	157.1	—	—

Well Capacity (Gallons/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 Diameter Capacity (Gallons/Foot): 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/Affiliation: Traci Fulkerson/Terrance **Sampler(s) Signature:**  **Sampling Initiated:** 919 **Sampling Ended:** 940
Field Decontamination: Y N **Field-Filtered:** Y N **Filter Size:** n/a µm **Filtration Equipment Type:** n/a **Duplicate:** Y N

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8270C + 1- and 2-methylnaphthalene	PP
	2	AG	1 L	H ₂ SO ₄	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	BTEX & MTBE 8021B	RFPP

Remarks:

Field Kits: DO: 5.0

Material Codes: AG = Amber Glass CG = Clear Glass PE = Polyethylene PP = Polypropylene S = Silicone T = Teflon O = Other (Specify)
Sampling/Purging: APP = After Peristaltic Pump B = Bailer BP = Bladder Pump ESP = Electric Submersible Pump PP = Peristaltic Pump
Equipment Codes: RFPP = Reverse Flow Peristaltic Pump SM = Straw Method (Tubing Gravity Drain) VT = Vacuum Trap O = Other (Specify)
Stabilization criteria for range of variation of last three consecutive readings: pH: + 0.2 units Temperature: + 0.2°C Specific Conductance: + 5%
Dissolved Oxygen: all readings < 20% saturation; 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 REPORTS AND CHAIN-OF-CUSTODY FORMS



Technical Report for

Solutions-IES, Inc

Cecil Field Building 271; Jacksonville, FL

8030.08A2.NAVF

Accutest Job Number: F65956

Sampling Date: 06/11/09

Report to:

Solutions-IES, Inc

jdehart@solutions-ies.com

ATTN: Jessica Dehart

Total number of pages in report: **47**



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
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Test results relate only to samples analyzed.

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Sample Summary

Solutions-IES, Inc

Job No: F65956

Cecil Field Building 271; Jacksonville, FL
 Project No: 8030.08A2.NAVF

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F65956-1	06/11/09	08:55 JC	06/12/09	AQ	Ground Water	CEF-271-09S
F65956-2	06/11/09	08:25 JC	06/12/09	AQ	Ground Water	CEF-271-01I
F65956-3	06/11/09	09:00 JC	06/12/09	AQ	Ground Water	CEF-271-08S
F65956-4	06/11/09	09:20 JC	06/12/09	AQ	Ground Water	CEF-271-06SR
F65956-5	06/11/09	09:19 JC	06/12/09	AQ	Ground Water	CEF-271-04SR
F65956-6	06/11/09	09:00 JC	06/12/09	AQ	Ground Water	CEF-271-01S
F65956-7	06/11/09	10:24 JC	06/12/09	AQ	Ground Water	CEF-271-03S
F65956-8	06/11/09	09:57 JC	06/12/09	AQ	Ground Water	CEF-271-12S
F65956-9	06/11/09	11:05 JC	06/12/09	AQ	Ground Water	CEF-271-07S
F65956-10	06/11/09	10:57 JC	06/12/09	AQ	Ground Water	CEF-271-10S
F65956-11	06/11/09	10:00 JC	06/12/09	AQ	Ground Water	CEF-271-05SR
F65956-12	06/11/09	11:25 JC	06/12/09	AQ	Ground Water	CEF-271-11S
F65956-13	06/11/09	00:00 JC	06/12/09	AQ	Trip Blank Water	CEF-271-TB1

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Solutions-IES, Inc

Job No: F65956

Site: Cecil Field Building 271; Jacksonville, FL

Report Date 6/26/2009 10:49:21

12 Samples, 1 Trip Blank were collected on 06/11/2009 and received at Accutest on 06/12/2009 properly preserved, at 4.2 Deg. C and intact. These Samples received an Accutest job number of F65956. 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.

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix: AQ

Batch ID: OP29299

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) F65988-2MS, F65988-2MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Blank Spike Recovery(s) for 1-Methylnaphthalene, 2-Methylnaphthalene, Naphthalene, Pyrene are outside control limits. Biased high, not detected in the samples, data integrity not adversely affected.

Matrix Spike Recovery(s) for Benzo(a)anthracene, Benzo(b)fluoranthene are outside control limits. Probable cause due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 2-Methylnaphthalene, Acenaphthylene, Benzo(a)anthracene, Benzo(b)fluoranthene, Naphthalene are outside control limits. Probable cause due to matrix interference.

Sample(s) F65956-12 have surrogates outside control limits. Probable cause due to matrix interference.

Matrix: AQ

Batch ID: OP29303

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) F65994-1MS, F65994-1MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Benzo(b)fluoranthene, Pyrene are outside control limits. Recovered above QC limits, not detected in the sample, data integrity not adversely affected.

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

Sample(s) F65956-12 have surrogates outside control limits. Probable cause due to matrix interference.

F65956-12 for 2-Fluorobiphenyl: Confirmed ND by re-extraction and reanalysis beyond holdtime.

Matrix: AQ

Batch ID: OP29363

The following samples were extracted outside of holding time for method SW846 8270C BY SIM: F65956-12

Sample(s) F65956-12 have surrogates outside control limits. Probable cause due to matrix interference.

F65956-12: Confirmation run.

Volatiles by GC By Method SW846 8021B

Matrix: AQ

Batch ID: GEF5183

All samples were analyzed within the recommended method holding time.

Sample(s) F65956-1MS, F65956-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

F65956-9: All hits confirmed by dual column analysis.

Extractables by GC By Method FLORIDA-PRO

Matrix: AQ

Batch ID: OP29283

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) F65955-3MS, F65955-3MSD were used as the QC samples indicated.



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: CEF-271-09S		Date Sampled: 06/11/09
Lab Sample ID: F65956-1		Date Received: 06/12/09
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270C BY SIM SW846 3510C		
Project: Cecil Field Building 271; Jacksonville, FL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R18832.D	1	06/17/09	RB	06/15/09	OP29299	SR903
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.49 U	0.98	0.49	ug/l	
208-96-8	Acenaphthylene	0.49 U	0.98	0.49	ug/l	
120-12-7	Anthracene	0.49 U	0.98	0.49	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	0.049 U	0.20	0.049	ug/l	
207-08-9	Benzo(k)fluoranthene	0.049 U	0.20	0.049	ug/l	
218-01-9	Chrysene	0.098 U	0.20	0.098	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.049 U	0.20	0.049	ug/l	
206-44-0	Fluoranthene	0.25 U	0.98	0.25	ug/l	
86-73-7	Fluorene	0.49 U	0.98	0.49	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.049 U	0.20	0.049	ug/l	
90-12-0	1-Methylnaphthalene	0.25 U	0.98	0.25	ug/l	
91-57-6	2-Methylnaphthalene	0.25 U	0.98	0.25	ug/l	
91-20-3	Naphthalene	0.25 U	0.98	0.25	ug/l	
85-01-8	Phenanthrene	0.25 U	0.98	0.25	ug/l	
129-00-0	Pyrene	0.25 U	0.98	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	58%		42-108%
321-60-8	2-Fluorobiphenyl	55%		40-106%
1718-51-0	Terphenyl-d14	108%		39-121%

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

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Client Sample ID: CEF-271-09S	Date Sampled: 06/11/09
Lab Sample ID: F65956-1	Date Received: 06/12/09
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8021B	
Project: Cecil Field Building 271; Jacksonville, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF093267.D	1	06/15/09	CW	n/a	n/a	GEF5183
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.0 U	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		70-120%
98-08-8	aaa-Trifluorotoluene	95%		73-118%

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

3.1
3

Client Sample ID: CEF-271-09S	Date Sampled: 06/11/09
Lab Sample ID: F65956-1	Date Received: 06/12/09
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C	
Project: Cecil Field Building 271; Jacksonville, FL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87502.D	1	06/17/09	SL	06/13/09	OP29283	GOP2269
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)	0.200	0.24	0.16	mg/l	I
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	63%		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-271-011	
Lab Sample ID: F65956-2	Date Sampled: 06/11/09
Matrix: AQ - Ground Water	Date Received: 06/12/09
Method: SW846 8270C BY SIM SW846 3510C	Percent Solids: n/a
Project: Cecil Field Building 271; Jacksonville, FL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R18833.D	1	06/17/09	RB	06/15/09	OP29299	SR903
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.95	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.95	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.95	0.48	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	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.095 U	0.19	0.095	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.95	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.95	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.95	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.95	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.95	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.95	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.95	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		42-108%
321-60-8	2-Fluorobiphenyl	73%		40-106%
1718-51-0	Terphenyl-d14	92%		39-121%

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

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3

Client Sample ID: CEF-271-01I		Date Sampled: 06/11/09
Lab Sample ID: F65956-2		Date Received: 06/12/09
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8021B		
Project: Cecil Field Building 271; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF093270.D	1	06/15/09	CW	n/a	n/a	GEF5183
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.0 U	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		70-120%
98-08-8	aaa-Trifluorotoluene	97%		73-118%

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

32
3

Client Sample ID: CEF-271-01I		Date Sampled: 06/11/09
Lab Sample ID: F65956-2		Date Received: 06/12/09
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Cecil Field Building 271; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87503.D	1	06/17/09	SL	06/13/09	OP29283	GOP2269
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	66%		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-271-08S	
Lab Sample ID: F65956-3	Date Sampled: 06/11/09
Matrix: AQ - Ground Water	Date Received: 06/12/09
Method: SW846 8270C BY SIM SW846 3510C	Percent Solids: n/a
Project: Cecil Field Building 271; Jacksonville, FL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R18834.D	1	06/17/09	RB	06/15/09	OP29299	SR903
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	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	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.096 U	0.19	0.096	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.96	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.96	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	97%		39-121%

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-271-08S		Date Sampled: 06/11/09
Lab Sample ID: F65956-3		Date Received: 06/12/09
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8021B		
Project: Cecil Field Building 271; Jacksonville, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF093271.D	1	06/15/09	CW	n/a	n/a	GEF5183
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.0 U	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		70-120%
98-08-8	aaa-Trifluorotoluene	95%		73-118%

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-271-08S		Date Sampled: 06/11/09
Lab Sample ID: F65956-3		Date Received: 06/12/09
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Cecil Field Building 271; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87506.D	1	06/17/09	SL	06/13/09	OP29283	GOP2269
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	81%		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-271-06SR	
Lab Sample ID: F65956-4	Date Sampled: 06/11/09
Matrix: AQ - Ground Water	Date Received: 06/12/09
Method: SW846 8270C BY SIM SW846 3510C	Percent Solids: n/a
Project: Cecil Field Building 271; Jacksonville, FL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R18902.D	1	06/21/09	RB	06/16/09	OP29303	SR906
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.95	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.95	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.95	0.48	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	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.095 U	0.19	0.095	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.95	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.95	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.95	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.95	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.95	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.95	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.95	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	45%		42-108%
321-60-8	2-Fluorobiphenyl	41%		40-106%
1718-51-0	Terphenyl-d14	83%		39-121%

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-271-06SR		Date Sampled: 06/11/09
Lab Sample ID: F65956-4		Date Received: 06/12/09
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8021B		
Project: Cecil Field Building 271; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF093272.D	1	06/15/09	CW	n/a	n/a	GEF5183
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.0 U	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		70-120%
98-08-8	aaa-Trifluorotoluene	94%		73-118%

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

3.4
3

Client Sample ID: CEF-271-06SR	
Lab Sample ID: F65956-4	Date Sampled: 06/11/09
Matrix: AQ - Ground Water	Date Received: 06/12/09
Method: FLORIDA-PRO SW846 3510C	Percent Solids: n/a
Project: Cecil Field Building 271; Jacksonville, FL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87507.D	1	06/17/09	SL	06/13/09	OP29283	GOP2269
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	70%		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-271-04SR	
Lab Sample ID: F65956-5	Date Sampled: 06/11/09
Matrix: AQ - Ground Water	Date Received: 06/12/09
Method: SW846 8270C BY SIM SW846 3510C	Percent Solids: n/a
Project: Cecil Field Building 271; Jacksonville, FL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R18903.D	1	06/21/09	RB	06/16/09	OP29303	SR906
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.95	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.95	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.95	0.48	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	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.095 U	0.19	0.095	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.95	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.95	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.95	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.95	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.95	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.95	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.95	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	49%		42-108%
321-60-8	2-Fluorobiphenyl	45%		40-106%
1718-51-0	Terphenyl-d14	91%		39-121%

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-271-04SR	Date Sampled:	06/11/09
Lab Sample ID:	F65956-5	Date Received:	06/12/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Cecil Field Building 271; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF093273.D	1	06/15/09	CW	n/a	n/a	GEF5183
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.0 U	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		70-120%
98-08-8	aaa-Trifluorotoluene	99%		73-118%

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

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

Report of Analysis

3.5
3

Client Sample ID: CEF-271-04SR	Date Sampled: 06/11/09
Lab Sample ID: F65956-5	Date Received: 06/12/09
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C	
Project: Cecil Field Building 271; Jacksonville, FL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87508.D	1	06/17/09	SL	06/13/09	OP29283	GOP2269
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	72%		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-271-01S	
Lab Sample ID: F65956-6	Date Sampled: 06/11/09
Matrix: AQ - Ground Water	Date Received: 06/12/09
Method: SW846 8270C BY SIM SW846 3510C	Percent Solids: n/a
Project: Cecil Field Building 271; Jacksonville, FL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R18904.D	1	06/21/09	RB	06/16/09	OP29303	SR906
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.95	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.95	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.95	0.48	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	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.095 U	0.19	0.095	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.95	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.95	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.95	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.95	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.95	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.95	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.95	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%		42-108%
321-60-8	2-Fluorobiphenyl	73%		40-106%
1718-51-0	Terphenyl-d14	90%		39-121%

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

3.6
3

Client Sample ID: CEF-271-01S		Date Sampled: 06/11/09
Lab Sample ID: F65956-6		Date Received: 06/12/09
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8021B		
Project: Cecil Field Building 271; Jacksonville, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF093274.D	1	06/15/09	CW	n/a	n/a	GEF5183
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.0 U	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		70-120%
98-08-8	aaa-Trifluorotoluene	94%		73-118%

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

3.6
3

Client Sample ID: CEF-271-01S	
Lab Sample ID: F65956-6	Date Sampled: 06/11/09
Matrix: AQ - Ground Water	Date Received: 06/12/09
Method: FLORIDA-PRO SW846 3510C	Percent Solids: n/a
Project: Cecil Field Building 271; Jacksonville, FL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87509.D	1	06/17/09	SL	06/13/09	OP29283	GOP2269
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	70%		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-271-03S	
Lab Sample ID: F65956-7	Date Sampled: 06/11/09
Matrix: AQ - Ground Water	Date Received: 06/12/09
Method: SW846 8270C BY SIM SW846 3510C	Percent Solids: n/a
Project: Cecil Field Building 271; Jacksonville, FL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R18905.D	1	06/21/09	RB	06/16/09	OP29303	SR906
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	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	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.096 U	0.19	0.096	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.96	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.96	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	58%		42-108%
321-60-8	2-Fluorobiphenyl	53%		40-106%
1718-51-0	Terphenyl-d14	90%		39-121%

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

37
3

Client Sample ID: CEF-271-03S		Date Sampled: 06/11/09
Lab Sample ID: F65956-7		Date Received: 06/12/09
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8021B		
Project: Cecil Field Building 271; Jacksonville, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF093275.D	1	06/15/09	CW	n/a	n/a	GEF5183
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.0 U	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		70-120%
98-08-8	aaa-Trifluorotoluene	94%		73-118%

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

37
3

Client Sample ID: CEF-271-03S		Date Sampled: 06/11/09
Lab Sample ID: F65956-7		Date Received: 06/12/09
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Cecil Field Building 271; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87510.D	1	06/17/09	SL	06/13/09	OP29283	GOP2269
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	64%		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-271-12S	
Lab Sample ID: F65956-8	Date Sampled: 06/11/09
Matrix: AQ - Ground Water	Date Received: 06/12/09
Method: SW846 8270C BY SIM SW846 3510C	Percent Solids: n/a
Project: Cecil Field Building 271; Jacksonville, FL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R18906.D	1	06/21/09	RB	06/16/09	OP29303	SR906
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.95	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.95	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.95	0.48	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	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.095 U	0.19	0.095	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.95	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.95	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.95	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.95	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.95	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.95	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.95	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	63%		40-106%
1718-51-0	Terphenyl-d14	97%		39-121%

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

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3

Client Sample ID: CEF-271-12S		Date Sampled: 06/11/09
Lab Sample ID: F65956-8		Date Received: 06/12/09
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8021B		
Project: Cecil Field Building 271; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF093276.D	1	06/15/09	CW	n/a	n/a	GEF5183
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.0 U	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		70-120%
98-08-8	aaa-Trifluorotoluene	94%		73-118%

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

3.8
3

Client Sample ID: CEF-271-12S		Date Sampled: 06/11/09
Lab Sample ID: F65956-8		Date Received: 06/12/09
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Cecil Field Building 271; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87511.D	1	06/17/09	SL	06/13/09	OP29283	GOP2269
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	70%		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-271-07S	
Lab Sample ID: F65956-9	Date Sampled: 06/11/09
Matrix: AQ - Ground Water	Date Received: 06/12/09
Method: SW846 8270C BY SIM SW846 3510C	Percent Solids: n/a
Project: Cecil Field Building 271; Jacksonville, FL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R18907.D	1	06/21/09	RB	06/16/09	OP29303	SR906
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	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	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.096 U	0.19	0.096	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.96	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	3.5	0.96	0.24	ug/l	
91-57-6	2-Methylnaphthalene	1.7	0.96	0.24	ug/l	
91-20-3	Naphthalene	23.3	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.35	0.96	0.24	ug/l	I
129-00-0	Pyrene	0.24 U	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	45%		42-108%
321-60-8	2-Fluorobiphenyl	45%		40-106%
1718-51-0	Terphenyl-d14	87%		39-121%

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-271-07S	Date Sampled:	06/11/09
Lab Sample ID:	F65956-9	Date Received:	06/12/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Cecil Field Building 271; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF093279.D	1	06/16/09	CW	n/a	n/a	GEF5183
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	1.2	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.0 U	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		70-120%
98-08-8	aaa-Trifluorotoluene	98%		73-118%

(a) All hits confirmed by dual column analysis.

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

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

Report of Analysis

3.9
3

Client Sample ID: CEF-271-07S		Date Sampled: 06/11/09
Lab Sample ID: F65956-9		Date Received: 06/12/09
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Cecil Field Building 271; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87512.D	1	06/17/09	SL	06/13/09	OP29283	GOP2269
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)	0.703	0.24	0.16	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	78%		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-271-10S	Date Sampled:	06/11/09
Lab Sample ID:	F65956-10	Date Received:	06/12/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C BY SIM SW846 3510C		
Project:	Cecil Field Building 271; Jacksonville, FL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R18908.D	1	06/21/09	RB	06/16/09	OP29303	SR906
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.95	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.95	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.95	0.48	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	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.095 U	0.19	0.095	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.95	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.95	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.95	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.95	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.95	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.95	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.95	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	48%		42-108%
321-60-8	2-Fluorobiphenyl	44%		40-106%
1718-51-0	Terphenyl-d14	80%		39-121%

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-271-10S		Date Sampled: 06/11/09
Lab Sample ID: F65956-10		Date Received: 06/12/09
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8021B		
Project: Cecil Field Building 271; Jacksonville, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF093280.D	1	06/16/09	CW	n/a	n/a	GEF5183
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.0 U	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		70-120%
98-08-8	aaa-Trifluorotoluene	97%		73-118%

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-271-10S		Date Sampled: 06/11/09
Lab Sample ID: F65956-10		Date Received: 06/12/09
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Cecil Field Building 271; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87564.D	1	06/18/09	SL	06/15/09	OP29297	GOP2271
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	88%		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-271-05SR	Date Sampled:	06/11/09
Lab Sample ID:	F65956-11	Date Received:	06/12/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C BY SIM SW846 3510C		
Project:	Cecil Field Building 271; Jacksonville, FL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R18909.D	1	06/21/09	RB	06/16/09	OP29303	SR906
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.95	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.95	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.95	0.48	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	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.095 U	0.19	0.095	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.95	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.95	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.95	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.95	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.95	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.95	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.95	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	52%		42-108%
321-60-8	2-Fluorobiphenyl	47%		40-106%
1718-51-0	Terphenyl-d14	90%		39-121%

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-271-05SR	Date Sampled: 06/11/09
Lab Sample ID: F65956-11	Date Received: 06/12/09
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8021B	
Project: Cecil Field Building 271; Jacksonville, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF093281.D	1	06/16/09	CW	n/a	n/a	GEF5183
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.0 U	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		70-120%
98-08-8	aaa-Trifluorotoluene	103%		73-118%

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-271-05SR		Date Sampled: 06/11/09
Lab Sample ID: F65956-11		Date Received: 06/12/09
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Cecil Field Building 271; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87565.D	1	06/18/09	SL	06/15/09	OP29297	GOP2271
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	74%		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-271-11S	
Lab Sample ID:	F65956-12	Date Sampled: 06/11/09
Matrix:	AQ - Ground Water	Date Received: 06/12/09
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids: n/a
Project:	Cecil Field Building 271; Jacksonville, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R18910.D	1	06/21/09	RB	06/16/09	OP29303	SR906
Run #2 ^a	W046418.D	1	06/22/09	RB	06/22/09	OP29363	SW2351

Run #	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1050 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	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	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.096 U	0.19	0.096	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.96	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.96	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	42%	48%	42-108%
321-60-8	2-Fluorobiphenyl	37% ^b	48%	40-106%
1718-51-0	Terphenyl-d14	89%	83%	39-121%

(a) Confirmation run.

(b) Confirmed ND by re-extraction and reanalysis beyond holdtime.

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-271-11S		Date Sampled: 06/11/09
Lab Sample ID: F65956-12		Date Received: 06/12/09
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8021B		
Project: Cecil Field Building 271; Jacksonville, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF093282.D	1	06/16/09	CW	n/a	n/a	GEF5183
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.0 U	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		70-120%
98-08-8	aaa-Trifluorotoluene	96%		73-118%

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-271-11S		Date Sampled: 06/11/09
Lab Sample ID: F65956-12		Date Received: 06/12/09
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Cecil Field Building 271; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87566.D	1	06/18/09	SL	06/15/09	OP29297	GOP2271
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	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:	CEF-271-TB1	Date Sampled:	06/11/09
Lab Sample ID:	F65956-13	Date Received:	06/12/09
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Cecil Field Building 271; Jacksonville, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF093283.D	1	06/16/09	CW	n/a	n/a	GEF5183
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.0 U	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		70-120%
98-08-8	aaa-Trifluorotoluene	100%		73-118%

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

I = Result \geq 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 LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F65956 CLIENT: Solutions IES PROJECT: Cecil field
 DATE/TIME RECEIVED: 6/12/09 8:00 # OF COOLERS RECEIVED: 5 COOLER TEMPS: 4.0 4.2 3.8 3.4 2.8
 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

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 0
 NUMBER OF 5035 FIELD KITS ? 0
 NUMBER OF LAB FILTERED METALS ? 0

SAMPLE INFORMATION

- SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- CORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- 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)

SUMMARY OF COMMENTS: Sample 6 received only 2 vials full one was empty

TECHNICIAN SIGNATURE/DATE CLR 6/12/09 TECHNICIAN SIGNATURE/DATE JE 6-12-09

ASBD 12/17/07

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