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SECOND QUARTER 2005 OPERATIONS AND MAINTENANCE STATUS REPORT FOR AIR SPARGING SYSTEM AT JET ENGINE TEST CELL NAS CECIL FIELD FL

11/22/2005

ESA ENVIRONMENTAL SPECIALISTS INC

Second Quarter 2005
Operations and Maintenance Status Report

Air Sparging System
Jet Engine Test Cell

Former Naval Air Station Cecil Field
Jacksonville, Florida

Contract No. N62467-03-G-0016

Submitted to:

U.S. Naval Facilities
Engineering Command
Southern Division

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Acronyms

ABB-ES	ABB Environmental Services, Inc.
AS	Air Sparging
AST	Aboveground Storage Tank
BLS	Below Land Surface
BTEX	benzene, toluene, ethylbenzene, xylene
CA	Contamination Assessment
CAR	Contamination Assessment Report
Cfm	cubic feet per minute
CTO	Contract Task Order
DO	dissolved oxygen
EPA	U.S. Environmental Protection Agency
ESA	ESA Environmental Specialists, Inc
FAC	Florida Administration Code
FDEP	Florida Department of Environmental Protection
FID	Flame ionization detector
FL-PRO	Florida Petroleum Residual Organic
GAC	granular activated carbon
GCTLs	groundwater cleanup target levels
JETC	Jet Engine Test Cell
LNAPL	Light Non-Aqueous Phase Liquids
mg/ L	milligrams per liter
MTBE	methyl tert butyl ether
NADSC	Natural Attenuation Default Source Concentration
NAS	Naval Air Station
NAVFAC EDF SOUTH	Naval Facilities Engineering Command, Engineering Field Division, Southern Division
O&M	Operation and Maintenance
ORP	oxygen-reduction potential
OWSs	oil water separators
PAH	polynuclear aromatic hydrocarbon
ppm	parts per million
psi	pounds per square inch

RAP	Remedial Action Plan
RAPA	Remedial Action Plan Addendum
SARA	Site Assessment Report Addendum
SCTLs	Soil Cleanup Target Levels
TRPH	total recoverable petroleum hydrocarbon
TtNUS	Tetra Tech NUS
USACE	U.S. Army Corps of Engineers
UST	Underground Storage Tank
VOC	Volatile Organic Compound

1 Introduction

ESA Environmental Specialists, Inc. (ESA) has been contracted by the Department of the Navy, Naval Facilities Engineering Command Engineering Field Division South (NAVFAC EFD SOUTH), to provide active treatment operation and maintenance (O&M) services at two groundwater remediation sites (Jet Engine Test Cell and Building 271), plus annual natural attenuation monitoring services at one groundwater remediation site (Area 199), situated at the former Naval Air Station (NAS) Cecil Field, Jacksonville, Duval County, Florida.
The purpose of this 2nd Quarter 2005 Operations and Maintenance Status Report is to provide a summary of activities performed at the JETC site during the period from August 1, 2005, to October 31, 2005.

1.1 Site History

JETC
The JETC site is located on the east side of the intersection of Flightline Road and Cecil Pines Street, in the vicinity of Buildings 339, 334, 328, and 811. The JETC facility was previously used by the Navy and is currently used by the private sector to test jet engines. Jet engines were mounted and operated in Building 334, 339, and 811. Building 811 has been demolished and only the foundation remains in place (Tetra Tech NUS, Inc. [TtNUS], 2002).

The following petroleum storage and handling units were associated with the JETC:

- Two 20,000-gallon JP-5 underground storage tanks (USTs) (designated 339-TC1 and 339-TC2) located in a fuel tank yard between Buildings 811 and 339
- A 5,000-gallon JP-5 aboveground storage tank (AST) (designated 339-TC3) within a 3-foot high concrete block containment wall located in the eastern portion of the tank yard
- A 940-gallon 10W engine oil AST (designated 334P), within a rubber containment structure on a concrete pad on the north side of Building 334
- Two oil water separators (OWSs); designated 325-OW and 334-OW at Building 334, and one OWS (designated 339-OW) at building 339

Environmental investigations began at the JETC site in 1989 near the area of the two 20,000-gallon JP-5 USTs, as a result of leaks discovered during tightness testing and reported overfilling spills. ABB Environmental Services, Inc. (ABB-ES) began a preliminary Contamination Assessment (CA) in 1990 that identified petroleum-impacted soil [defined as having a flame ionization detector (FID) reading of greater than 50 parts per million (PPM)]. Between 1991 and 1994, the U.S. Army Corps of Engineers (USACE) and ABB-ES conducted a comprehensive CA. Free product, soil, and groundwater contamination associated with the two 20,000-gallon JP-5 USTs were

identified and delineated during the CA and CA Report (CAR) Addendum field efforts (TtNUS, 2002).

In addition, soil contamination was identified at OWS 334-OW. Soil excavation activities were conducted at the 34-OW site in 1999; however, all of the contaminated soil was not removed. The remaining petroleum storage/handling units did not indicate the presence of soil of groundwater contamination in excess of regulatory levels (TtNUS, 2002).

In May 1999, a groundwater Monitoring Only Plan (MOP) for natural attenuation was approved by the Florida Department of Environmental Protection (FDEP) for the JETC site. Quarterly groundwater sampling was conducted under this plan from July 1997 to October 2000. Based on quarterly sampling results, it was determined that additional delineation of the groundwater contamination at the site was required (TtNUS, 2002).

TtNUS conducted additional field investigation activities in 2001 to further define the extent of the impacted groundwater at the JETC site. The Site Assessment Report Addendum (SARA) field investigation delineated the extent of groundwater contamination at the site and concluded that not all of the contaminated soil identified by previous investigations was removed from the vicinity of the OWS at the site. Groundwater contamination appeared to be limited to two separate plumes located in the northern and southern area of Buildings 334 and 339. TtNUS recommended that the two plumes be managed as one site due to their proximity and that the remaining petroleum-contaminated soil associated with site OWS 334-OW be excavated and disposed offsite. TtNUS prepared a Remedial Action Plan (RAP) to address remediation of the soil and groundwater at the site (TtNUS, 2002).

TtNUS submitted to FDEP for approval a RAP in September 2002 and a RAP Addendum (RAPA) in January 2003 to select the remedial alternative to remediate the contaminated soil and groundwater at the site. Air sparging (AS) for groundwater and excavation for soil were selected as the appropriate remedial alternatives. FDEP approval on the RAP and RAPA was received in February 2003.

CH2M Hill Constructors, Inc. (CH2M Hill) installed an AS system in accordance with the RAP (TtNUS, 2002), RAPA (TtNUS, 2003), and Work Plan Addendum No. 18, Installation of Air Sparging Systems at the JETC site (CH2M Hill, 2003) from September to November 2003. The AS system commenced operation on November 24, 2003.

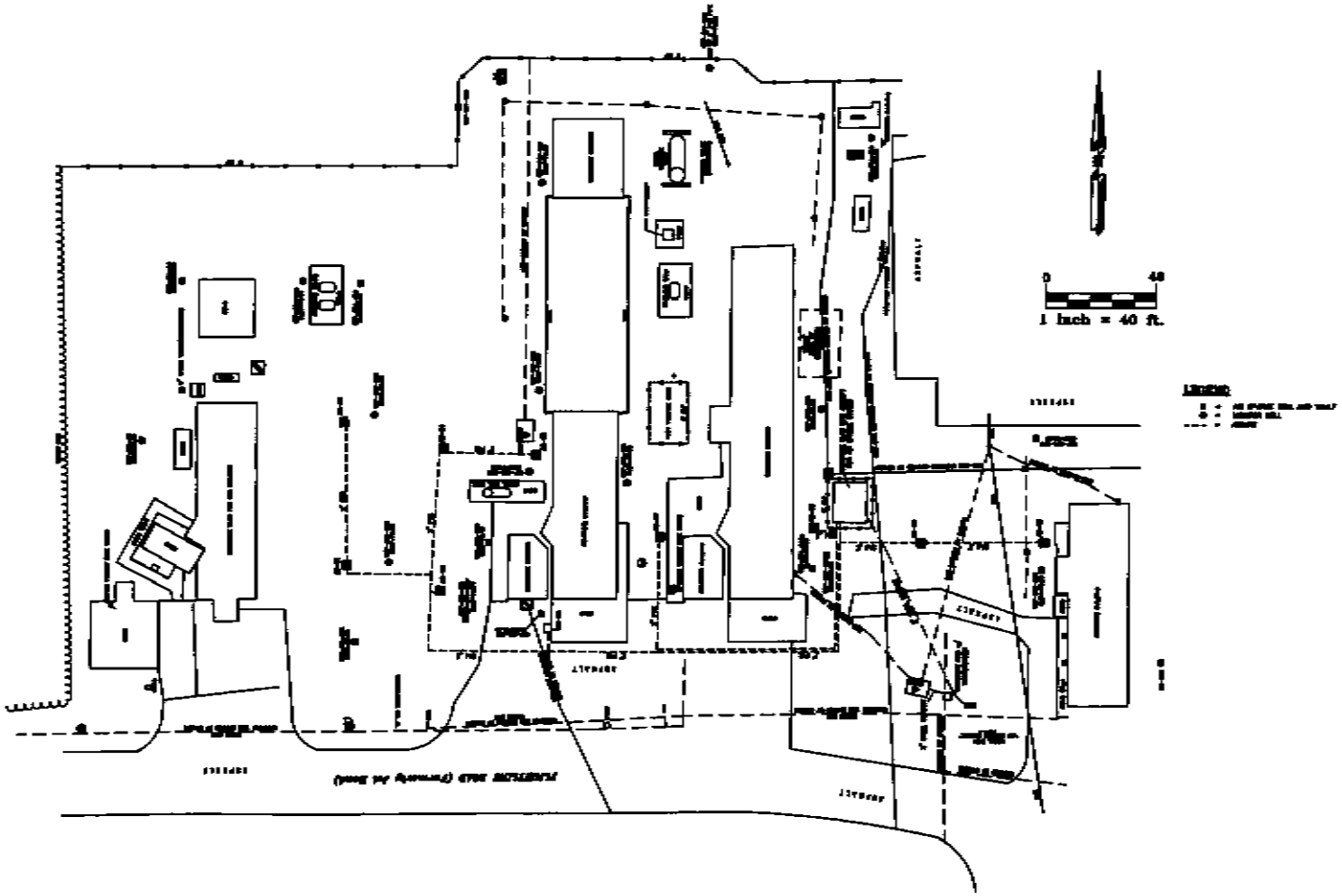
On May 24, 2005, management of on-going remedial activities at the JETC site was transferred from CH2M Hill to ESA.

A site plan showing the JETC site and the AS system layout is provided in Figure 1-1.

1.2 Remediation System/Technology Description

AS is a physical treatment method of expediting the transfer of VOCs form the soil and groundwater to the sparging air. Atmospheric air is injected into the air sparge wells, which are screened within the groundwater contaminant plume. As the injected air passes upward through the VOC laden groundwater and soil, VOCs are partitioned to the passing air and migrate to the vadose zone.

The JETC AS system consists of 10 AS wells (AS-01 through AS-10), rotary vane-type compressor, receiver tank, and associated piping and instrumentation. The AS wells are screened from approximately 28 to 30 feet below land surface (bls). The AS system is designed for each AS well to operate at an airflow rate of 10 cubic feet per minute (cfm) at an injection pressure of 15 pounds per square inch (psi). The locations of the AS wells are shown on Figure 1-1.



DRAWN: BL CHECKED: AI DATE: OCT 2000	REVISIONS	BY	DATE	Environmental Specialists, Inc.	JET ENGINE TEST CELL FORMER NAS CECIL FIELD JACKSONVILLE, FLORIDA	SITE MAP	FIGURE 1-1

2 System Performance Monitoring

O&M checks of the system were performed weekly during the monitoring period. During an O&M check, a preventative maintenance checklist (based upon manufacturers' recommendations) is completed, and any required maintenance activity is performed. All meters and gauges at the system are read and recorded during the O&M check. Well vault gauges and meters are read and recorded on a monthly basis.

2.1 Operational Efficiencies

	Period (8/01-10/23)	**To Date (from 5/17/05)**
Air Sparging System	JETC	JETC
Hours of Possible Operation	1992	3816
Hours of Actual Operation	941.52	1663.14
Percent Hours of Operation	47.27%	43.58%

2.2 AS System Summary of Maintenance and Downtime

During the period from August 1, 2005 to October 23, 2005, the JETC AS system ran a total of 39.23 days out of a possible 83 days resulting on 1050.48 hours of downtime. The AS system downtime is detailed as follows:

- **JETC AS system**
  - System down upon arrival on 8/1/2005; succeeded in restarting half of the system; awaiting authorization for airline repair for remaining half of system.
  - System down upon arrival on 8/9/2005; compressor was tripped; reset and restarted.
  - System down upon arrival on 8/15/2005; compressor was tripped; reset and restarted.
  - System up and running upon arrival and departure on 10/6/2005; AS-01 through AS-06 off due to airline leak at AS-05.
  - System down upon arrival on 9/22/2005; restarted.
  - System down upon arrival on 10/23/05 from recent repairs on AS-05 airline, system reset and restarted half of system. Discovered additional air line leak at unpaved area, Change Order Request No. 2 submitted for repair, second half of system remained off.

2.3 AS System Pressure/Flow Rate Monitoring

During the monitoring period, injection pressure was measured at each AS wellhead weekly during the first month and monthly thereafter. The wellhead pressures for the operating AS wells averaged 12.54 psi, compared to the design pressure of 15 psi. The AS wellhead pressure data is provided in Table 2-1.

Table 2-1 Air Sparging Well Measurements, JETC

Location	Air Sparge Well	Date	Wellhead Pressure (psi) Initial	Wellhead Pressure (psi) Reset	Flow Rate (scfm) Initial	Flow Rate (scfm) Reset
JETC	AS-07	8/1/2005	15.6		9.00	
		9/3/2005	12.75	12.20	10.50	9.5
		10/6/2005	11.2	14.0	6.50	9.0
JETC	AS-08	8/1/2005	17.0		9.00	
		9/3/2005	14.0	12.4	11.50	9.5
		10/6/2005	11.0		4.50	
JETC	AS-09	8/1/2005	16.2		9.00	
		9/3/2005	12.6	11.0	10.0	9.0
		10/6/2005	11.9		7.00	
JETC	AS-10	8/1/2005	14.1		8.80	
		9/3/2005	11.2	7.5	9.50	5.50
		10/6/2005	8.6		2.00	
Averages			**12.54**		**8.22**	

psi – pounds per square inch
scfm – standard cubic feet per minute
*Air line leak; optimized

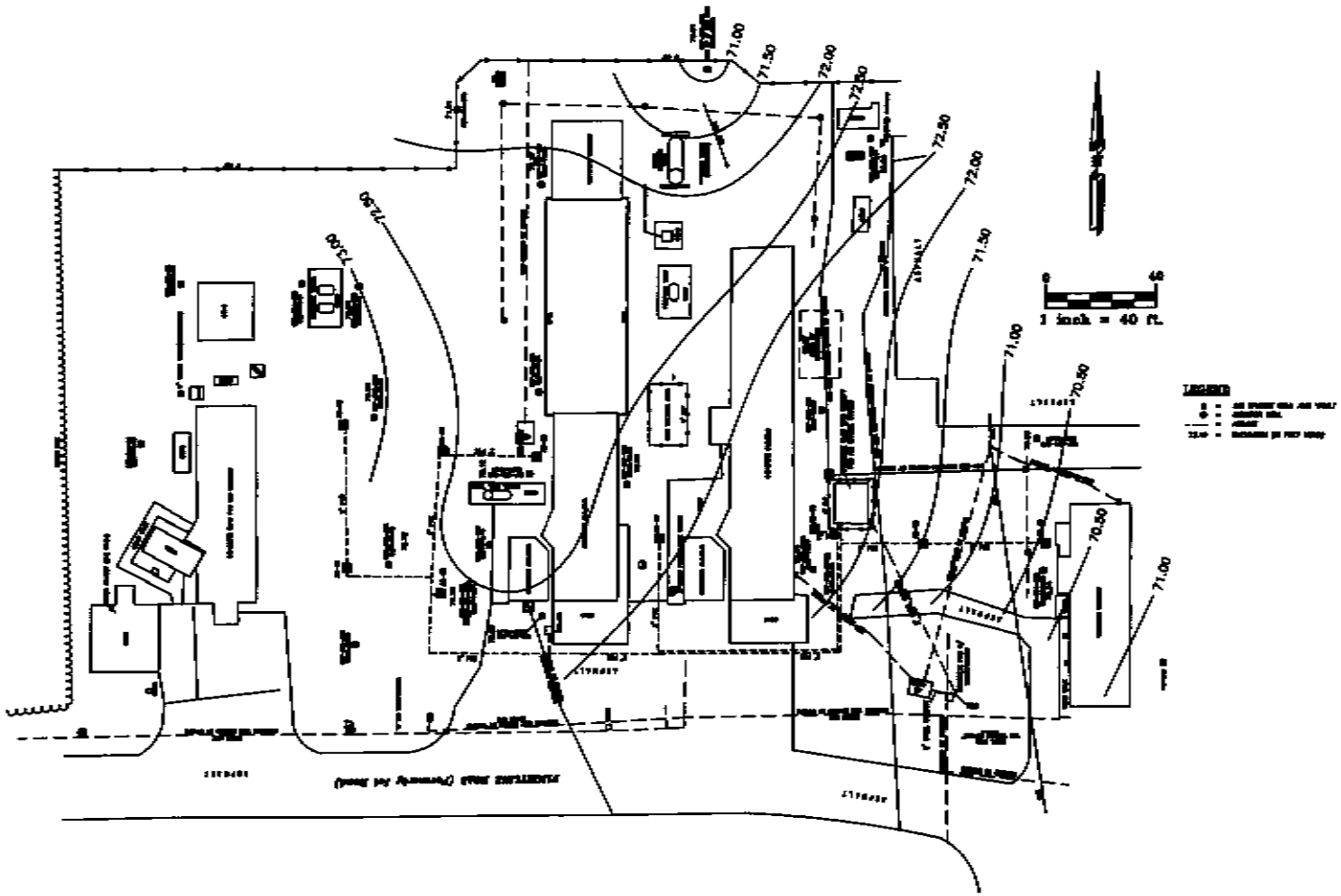
2.4 Water Level Measurements

Depth to groundwater measurements were recorded during the first month and quarterly thereafter from the 15 monitoring wells during the monitoring period. The results from the groundwater level measurement surveys are provided in Table 2-2. Light non-aqueous phase liquid (LNAPL) was not detected on monitoring wells during the monitoring period.

Table 2-2, Water Level Measurements
JETC, 2nd Quarter, 2005

Monitoring Well	Date	TOC Elevation (feet)	Depth to Water (feet bTOC)	Water Level Elevation (feet NGVD)
NG-24S	9/5/2005	78.17	5.05	73.12
CEF-334-32S	9/5/2005	79.80	5.45	74.35
CEF-334-33S	9/5/2005	79.24	4.93	74.31
CEF-334-02S	9/5/2005	78.61	4.14	74.47
CEF-811-08S	9/5/2005	79.26	5.54	73.72
CEF-334-01S	9/5/2005	79.00	4.55	74.45
CEF-811-06S	9/5/2005	78.02	4.46	73.56
CEF-334-02SA	9/5/2005	79.06	4.10	74.96
CEF-811-17S	9/5/2005	79.34	4.35	74.99
CEF-811-16SR	9/5/2005	79.54	4.15	75.39
CEF-334-34S	9/5/2005	79.23	3.91	75.32
CEF-339-29S	9/5/2005	79.89	4.49	75.40
CEF-339-30S	9/5/2005	79.31	4.08	75.23
CEF-339-28S	9/5/2005	79.52	4.43	75.09
CEF-811-18S	9/5/2005	79.52	4.82	74.70

Top of Casing Elevations and data prior to 4/27/00 obtained from BEI
TOC – top of casing
bTOC – Below top of casing
Elevation is referenced to National Geodetic Vertical Datum 1929 (NGVD 1929)
Depth to water measured from top of casing



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DATE: OCT 2005			

Environmental Specialists, Inc.

JET ENGINE TEST CELL
FORMER NAS CECIL FIELD
JACKSONVILLE, FLORIDA

POTENIOMETRIC SURFACE MAP
MAY 29,2005

FIGURE 2-1

3 Summary of Sampling and Laboratory Analytical Results

3.1 Groundwater Monitoring

ESA conducted the 2nd Quarter 2005 groundwater monitoring events beginning on August 1, 2005. During the 2nd Quarter 2005 monitoring event monitoring wells CEF-334, 339, and 811 were sampled. The groundwater samples were laboratory analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tert butyl ether (MTBE) by EPA Method SW8021B, the 16-listed polynuclear aromatic hydrocarbons (PAHs) and 1- and 2-methylnapthalene by AEL SOP SVOC-006: 2-25-03 and SW8270C-SIM, and Total Recoverable Petroleum Hydrocarbons (TRPH) by the Florida Petroleum Organic (FL-PRO) Method. The laboratory analytical results for the detected parameters from the 2nd Quarter groundwater monitoring events are summarized in Table 3-1. The locations of the monitoring wells are shown on Figure 1-1. Copies of the analytical laboratory reports from the groundwater monitoring events are provided in Appendix A.

Field parameters consisting of pH, temperature, dissolved oxygen (DO), and specific conductivity were measured during purging of the monitoring wells. The field parameters are summarized in Table 3-2. As expected, the aquifer at the JETC site within the treatment area remains highly aerobic with DO measurements above 1 milligram per liter (mg/ L) in 7 of the 15 monitoring wells and oxidation-reduction potential (ORP) measurements greater than 50 millivolts in 5 of the 15 monitoring wells.

The Groundwater samples from the monitoring well CEF-811-18S detected the following concentrations exceeding GCTLs for Naphthalene. None of the wells detected concentrations that exceeded the Natural Attenuation Default Source Concentrations (NADSC).

As compared to the previous quarterly reports, in general, the groundwater analytical concentrations have decreased. This indicates that the air sparge system is reducing the groundwater contamination at this site.

Table 3-1 Groundwater Analytical Results, 2nd Quarterly Report 2005

Parameter	Station ID		NG-24S	CEF-334-32S	CEF-334-33S	CEF-334-02SA	CEF-811-17S	CEF-811-16SR	Equip. Blank
	Sample ID		J055915-01	J055915-02	J055915-03	J055915-04/08	J055915-05/09	J055915-06/10	J055915-07
	Sample Date		9/4/2005	9/5/2005	9/5/2005	9/5/2005	9/5/2005	9/5/2005	9/4/2005
	GCTL[1]	NADC[3]							
	micrograms per liter (µg/L)								
Volatile Aromatic Hydrocarbons									
Benzene	1	10	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.63 U	0.21 U
Ethylbenzene	30	300	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.51 U	0.17 U
Methyl-tert-butyl Ether	20	200	0.35 U	0.35 U	0.35 U	0..35 U	0..35 U	1.1 U	0..35 U
Xylenes (total)	20	200	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	1.89 U	0.63 U
Toluene	1	10	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.69 U	0.23 U
Polynuclear Aromatic Hydrocarbons									
1-methylnaphthalene	28	280	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
2-methylnaphthalene	28	280	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Acenaphthene	20	200	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Acenaphthylene	210	2100	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Anthracene	2100	21000	0.080 U	0.080 U	0.080 U	0.080 U	0.081 U	0.081 U	0.081 U
Benzo(a)anthracene	0.05	0.5	**0.11 U**	**0.11 U**	**0.11 U**	**0.11 U**	**0.11 U**	**0.11 U**	**0.11 U**
Benzo(a)pyrene	0.2	2	0.094 U	0.094 U	0.094 U	0.094 U	0.095 U	0.095 U	0.095 U
Benzo(b)fluoranthene	0.05	0.5	**0.081 U**	**0.081 U**	**0.081 U**	**0.081 U**	**0.081 U**	**0.081 U**	**0.081 U**
Benzo(g,h,i)perylene	210	2100	0.092 U	0.092 U	0.092 U	0.092 U	0.093 U	0.093 U	0.093 U
Benzo(k)fluoranthene	0.5	5	0.082 U	0.082 U	0.082 U	0.082 U	0.083 U	0.083 U	0.083 U
Chrysene	4.8	48	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Dibenz(a,h)anthracene	0.005	0.05	**0.10 U**	**0.10 U**	**0.10 U**	**0.10 U**	**0.10 U**	**0.10 U**	**0.10 U**
Fluoranthene	280	2800	0.084 U	0.084 U	0.084 U	0.084 U	0.085 U	0.085 U	0.085 U
Fluorene	280	2800	0.10 U	0.10 U	0.10 U	0.10 U	0.11 U	0.11 U	0.11 U
Indeno(1,2,3-cd)pyrene	0.05	0.5	**0.15 U**	**0.15 U**	**0.15 U**	**0.15 U**	**0.15 U**	**0.15 U**	**0.15 U**
Naphthalene	14	140	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Phenanthrene	210	2100	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Pyrene	210	2100	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

Table 3-1 cont'd

Parameter	Station ID		CEF-334-34S	CEF-339-28S	CEF-339-29S	CEF-811-18S		Trip Blank
	Sample ID		J055915-11	J055915-12	J055915-13	J055915-14	J055915-15	J055915-16
	Sample Date		9/5/2005	9/5/2005	9/5/2005	9/5/2005	9/5/2005	9/4/2005
	GCTL[1]	NADC[1]						
	micrograms per liter (µg/L)							
Volatile Aromatic Hydrocarbons								
Benzene	1	10	0.21 U	0.21 U	0.21 U	0.63 U	**4.2 U**	0.21 U
Ethylbenzene	30	300	0.17 U	0.17 U	0.17 U	17	16	1.5
Methyl-tert-butyl Ether	20	200	0.35 U	0.35 U	0.35 U	1.1 U	7.0 U	0.35 U
Xylenes (total)	20	200	0.63 U	0.63 U	0.63 U	15.5	14.6	1.08 i
Toluene	1	10	0.23 U	0.74 i	0.23 U	0.69 U	**4.6 U**	0.23 U
Polynuclear Aromatic Hydrocarbons								
1-methylnaphthalene	28	280	0.12 U	0.34 i	0.12 U	21	25	-
2-methylnaphthalene	28	280	0.18 U	0.26 i	0.18 U	22	26	-
Acenaphthene	20	200	0.13 U	0.13 U	0.13 U	0.14 i	0.14 i	-
Acenaphthylene	210	2100	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	-
Anthracene	2100	21000	0.080 U	0.080 U	0.080 U	0.081 U	0.080 U	-
Benzo(a)anthracene	0.05	0.5	**0.11 U**	**0.11 U**	**0.11 U**	**0.11 U**	**0.11 U**	-
Benzo(a)pyrene	0.2	2	0.094 U	0.094 U	0.094 U	0.095 U	0.094 U	-
Benzo(b)fluoranthene	0.05	0.5	**0.081 U**	**0.081 U**	**0.081 U**	**0.081 U**	**0.081 U**	-
Benzo(g,h,i)perylene	210	2100	0.092 U	0.092 U	0.092 U	0.093 U	0.092 U	-
Benzo(k)fluoranthene	0.5	5	0.082 U	0.082 U	0.082 U	0.083 U	0.082 U	-
Chrysene	4.8	48	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	-
Dibenz(a,h)anthracene	0.005	0.05	**0.10 U**	**0.10 U**	**0.10 U**	**0.10 U**	**0.10 U**	-
Fluoranthene	280	2800	0.084 U	0.084 U	0.084 U	0.085 U	0.084 U	-
Fluorene	280	2800	0.10 U	0.10 U	0.10 U	0.28 i	0.34 i	-
Indeno(1,2,3-cd)pyrene	0.05	0.5	**0.15 U**	**0.15 U**	**0.15 U**	**0.15 U**	**0.15 U**	-
Naphthalene	14	140	0.15 U	1.4 U	0.17 i	**90.0**	**90.0**	-
Phenanthrene	210	2100	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	-
Pyrene	210	2100	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	-

Notes:
GCTL - Groundwater Cleanup Target Level, 1 = Chapter 62-777 FAC GCTLs reported in µg/L, Bold indicates concentration exceeds GCTL
NADC - Natural Attenuation Default Concentration, Shade indicates concentration exceeds NADC
U - the compound was analyzed for but not detected
i - the reported value is between the laboratory method detection limit and the laboratory practical quantitation limit

Table 3-2
Field Parameter Measurements
JETC GW Field Monitoring

Sample Date 9/5/2005	Groundwater					
Well	**pH**	**Conductivity (mS/cm)**	**Turbidity (NTU)**	**Dissolved Oxygen (mg/L)**	**Temperature (°C)**	**ORP (mV)**
NG-24S	5.55	113	8.87	0.70	28.74	47.7
CEF-334-32S	5.89	48	441	**3.59**	24.56	[illegible]
CEF-334-33S	5.48	88	44.2	**1.65**	25.96	[illegible]
CEF-334-02S	6.68	475	NM	**1.42**	27.12	20.0
CEF-811-08S	5.91	212	NM	**2.26**	26.82	[illegible]
CEF-334-01S	5.67	544	NM	**1.14**	25.95	44.8
CEF-811-06S	5.09	278	NM	**1.79**	26.47	[illegible]
CEF-334-02SA	6.52	101	-97.7	**4.11**	25.90	-50.9
CEF-811-17S	6.59	289	18.97	0.24	26.20	-69.5
CEF-811-16SR	6.09	301	39.5	0.26	27.44	-82.0
CEF-334-34S	6.08	277	11.12	0.38	24.82	-219.4
CEF-339-29S	7.01	575	0.00	0.10	27.72	-241.2
CEF-339-30S	5.30	273	NM	**1.84**	27.45	[illegible]
CEF-339-28S	6.81	802	0.33	0.12	27.21	-224.2
CEF-811-18S	NM	NM	NM	NM	NM	-186.1

Note: All measurements taken using direct reading instruments in the field.
mS/cm – milliSiemens per centimeter
NTU – nephelomatic turbidity units
mg/L – milligrams per liter
°C – degrees Celsius
ORP – oxygen reducing potential
mV - millivolts
Shade indicates ORP values exceeding 50mV
Bold indicates DO values exceeding 1 mg/L
NM – Not Measured

4.0 Conclusions and Recommendations

During the 2nd Quarter 2005 period, following a recent repair and restart of the air supply line feeding air sparge well AS-05, an additional air line leak was detected near the elbow leading from the equipment compound to the line that feeds that northern portion of the AS system. The area is a substantial distance from the recent repair area and an unrelated concern. Change Order Modification No. 2 was submitted on November 7, 2005 for the approval of use for the Emergency Funds for necessary repairs.

ESA proposes to dispatch two field technicians to the site to repair the recently-discovered additional air leak. The work is anticipated to require one day to complete, including excavation to two feet in a 2 foot wide, by 10 foot long area of unpaved turf, inspection and repair of the 2-inch diameter schedule 80 PVC air line, and backfilling of the excavation to surrounding grade.

The JETC AS systems operated with a great amount downtime during the monitoring period with a resulting operational efficiency of percent of 47.27%. The majority of the downtime for the JETC AS System was due primarily to repairs being conducted to AS-05 as stated in the 1st Quarterly Report 2005. Additional downtime is a result of compressor relay trips when local electrical utilities have a power blink which frequently occurs during the summer rainy season. The installation of automatic timed resets for the Mattei compressors operating at Cecil Field is recommended in order to reduce downtime when electrical power outages occur. This installation will offer the AS Systems auto reset capabilities as compared to the current configuration which only offers a manual reset method.

The groundwater samples from monitoring well CEF-811-18S detected Naphthalene exceeding GCTL levels. No analytes were detected in any of the monitoring wells that exceeded the Natural Attenuation Default Concentrations (NADCs).

As compared to the previous quarterly reports from May 2005 through July 31, 2005, results in general, the 2nd Quarterly Report 2005 groundwater analytical concentrations reducing the groundwater contamination at the site.

5.0 References

ESA Environmental Specialists, Inc. June 2005. Cecil Field Workplan. NAS Cecil Field, Jacksonville, Florida.

ESA Environmental Specialists, Inc. June 2005. Cecil Field Health and Safety Plan. NAS Cecil Field, Jacksonville, FL.

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.

APPENDIX A
Analytical Results

Advanced Environmental Laboratories, Inc.

6601 Southpoint Parkway
Jacksonville, Florida 32216
(904) 363-9350
FAX (904) 363-9354

Client:	URS	**Report No.:**	J055915
Project Name:	Cecil Field-Jet C	**Date Sampled:**	9/4/05
Project Number:		**Date Received:**	9/6/05 08:00
		Date Reported:	9/16/05

Attention: Bill Kelly

Phone Number: 9046456233

Address: 8761 Perimeter Park Blvd.
Suite 201
Jacksonville, FL 32216

Project Description

The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody.

Project Name: Cecil Field-Jet C

Approved By: ✓ 2005.09.16 09:59:54 -04'00' for

[redacted]

If there are any questions involving this report, the above named should be contacted.

THIS REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY.

Advanced Environmental Laboratories certifies that the test results in this report meet all requirements of the NELAC standards, unless noteted otherwise in the body of the report.

Total Number of Pages = 22 + 4 COC

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J055915
Date/Time Received: 9/6/05 08:00

Lab Code: J055915-01
Client Sample ID: 1
Site: NG-24S
Matrix: Water

Date/Time Sampled: 9/4/05 16:08
Shipping Method: Client drop off
Sampled By: William Kelly
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHS	1	280	1100	280	ug/L	U	FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1	0.12	0.49	0.12	ug/L	U	AEL SOP SVOC-006: 2-25-03		J
2-Methylnaphthalene	1	0.18	0.71	0.18	ug/L	U	SW8270C-SIM		J
Acenaphthene	1	0.13	0.51	0.13	ug/L	U	SW8270C-SIM		J
Acenaphthylene	1	0.13	0.51	0.13	ug/L	U	SW8270C-SIM		J
Anthracene	1	0.080	0.32	0.080	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1	0.11	0.45	0.11	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1	0.094	0.38	0.094	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1	0.081	0.32	0.081	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1	0.092	0.37	0.092	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1	0.082	0.33	0.082	ug/L	U	SW8270C-SIM		J
Chrysene	1	0.060	0.24	0.060	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1	0.10	0.41	0.10	ug/L	U	SW8270C-SIM		J
Fluoranthene	1	0.084	0.34	0.084	ug/L	U	SW8270C-SIM		J
Fluorene	1	0.10	0.42	0.10	ug/L	U	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1	0.15	0.59	0.15	ug/L	U	SW8270C-SIM		J
Naphthalene	1	0.15	0.61	0.15	ug/L	U	SW8270C-SIM		J
Phenanthrene	1	0.10	0.40	0.10	ug/L	U	SW8270C-SIM		J
Pyrene	1	0.12	0.48	0.12	ug/L	U	SW8270C-SIM		J

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	1	0.21	0.84	0.21	ug/L	U	SW8021B		J
Ethylbenzene	1	0.17	0.68	0.17	ug/L	U	SW8021B		J
m&p-Xylenes	1	0.40	1.6	0.40	ug/L	U	SW8021B		J
Methyl-tert-butyl Ether	1	0.35	1.4	0.35	ug/L	U	SW8021B		J
o-Xylene	1	0.23	0.92	0.23	ug/L	U	SW8021B		J
Toluene	1	0.23	0.92	0.23	ug/L	U	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
Nonatricontane	42 - 193	61		FL-PRO	METHOD
Ortho-Terphenyl	82 - 142	86		FL-PRO	METHOD
1-Bromo-4-chlorobenzene	75 - 119	98		SW8021B	SW5030B
Decafluorobiphenyl	21 - 122	68		SW8270C-SIM	SW3510C

U The compound was analyzed for but not detected.

J DOH certification #E82574 (AEL-JAX) (FL NELAC certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J055915
Date/Time Received: 9/6/05 08:00

Lab Code: J055915-02
Client Sample ID: 2
Site: CEF-334-32S
Matrix: Water

Date/Time Sampled: 9/5/05 09:16
Shipping Method: Client drop off
Sampled By: William Kelly
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHB	1	280	1100	**280**	ug/L	U	FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1	0.12	0.49	**0.12**	ug/L	U	AEL SOP SVOC-006: 2-25-03		J
2-Methylnaphthalene	1	0.18	0.71	**0.18**	ug/L	U	SW8270C-SIM		J
Acenaphthene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Acenaphthylene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Anthracene	1	0.080	0.32	**0.080**	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1	0.11	0.45	**0.11**	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1	0.094	0.38	**0.094**	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1	0.081	0.32	**0.081**	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1	0.092	0.37	**0.092**	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1	0.082	0.33	**0.082**	ug/L	U	SW8270C-SIM		J
Chrysene	1	0.060	0.24	**0.060**	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1	0.10	0.41	**0.10**	ug/L	U	SW8270C-SIM		J
Fluoranthene	1	0.084	0.34	**0.084**	ug/L	U	SW8270C-SIM		J
Fluorene	1	0.10	0.42	**0.10**	ug/L	U	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1	0.15	0.59	**0.15**	ug/L	U	SW8270C-SIM		J
Naphthalene	1	0.15	0.61	**0.15**	ug/L	I	SW8270C-SIM		J
Phenanthrene	1	0.10	0.40	**0.10**	ug/L	U	SW8270C-SIM		J
Pyrene	1	0.12	0.48	**0.12**	ug/L	U	SW8270C-SIM		J

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	1	0.21	0.84	**0.21**	ug/L	U	SW8021B		J
Ethylbenzene	1	0.17	0.68	**0.17**	ug/L	U	SW8021B		J
m&p-Xylenes	1	0.40	1.6	**0.40**	ug/L	U	SW8021B		J
Methyl-tert-butyl Ether	1	0.35	1.4	**0.35**	ug/L	U	SW8021B		J
o-Xylene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J
Toluene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
Nonatricontane	42 - 193	58		FL-PRO	METHOD
Ortho-Terphenyl	82 - 142	73	J4	FL-PRO	METHOD
1-Bromo-4-chlorobenzene	75 - 119	96		SW8021B	SW5030B
Decafluorobiphenyl	21 - 122	49		SW8270C-SIM	SW3510C

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J4 The sample matrix interfered with the ability to make an accurate determination.
U The compound was analyzed for but not detected.
J DOH certification #E82674 (AEL-JAX) (FL NELAC certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J055915
Date/Time Received: 9/6/05 08:00

Lab Code: J055915-03
Client Sample ID: 3
Site: CEF-334-33S
Matrix: Water

Date/Time Sampled: 9/5/05 08:23
Shipping Method: Client drop off
Sampled By: William Kelly
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHS	1	280	1100	**280**	ug/L	U	FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1	0.12	0.49	**0.12**	ug/L	U	AEL SOP SVOC-006: 2-25-03		J
2-Methylnaphthalene	1	0.18	0.71	**0.18**	ug/L	U	SW8270C-SIM		J
Acenaphthene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Acenaphthylene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Anthracene	1	0.080	0.32	**0.080**	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1	0.11	0.45	**0.11**	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1	0.094	0.38	**0.094**	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1	0.081	0.32	**0.081**	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1	0.092	0.37	**0.092**	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1	0.082	0.33	**0.082**	ug/L	U	SW8270C-SIM		J
Chrysene	1	0.060	0.24	**0.060**	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1	0.10	0.41	**0.10**	ug/L	U	SW8270C-SIM		J
Fluoranthene	1	0.084	0.34	**0.084**	ug/L	U	SW8270C-SIM		J
Fluorene	1	0.10	0.42	**0.10**	ug/L	U	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1	0.15	0.59	**0.15**	ug/L	U	SW8270C-SIM		J
Naphthalene	1	0.15	0.61	**0.15**	ug/L	U	SW8270C-SIM		J
Phenanthrene	1	0.10	0.40	**0.10**	ug/L	U	SW8270C-SIM		J
Pyrene	1	0.12	0.48	**0.12**	ug/L	U	SW8270C-SIM		J

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	1	0.21	0.84	**0.21**	ug/L	U	SW8021B		J
Ethylbenzene	1	0.17	0.68	**0.17**	ug/L	U	SW8021B		J
m&p-Xylenes	1	0.40	1.6	**0.40**	ug/L	U	SW8021B		J
Methyl-tert-butyl Ether	1	0.35	1.4	**0.35**	ug/L	U	SW8021B		J
o-Xylene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J
Toluene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
Nonatriacontane	42 - 193	61		FL-PRO	METHOD
Ortho-Terphenyl	82 - 142	92		FL-PRO	METHOD
1-Bromo-4-chlorobenzene	75 - 119	98		SW8021B	SW5030B
Decafluorobiphenyl	21 - 122	46		SW8270C-SIM	SW3510C

U The compound was analyzed for but not detected.
J DOH certification #E82574 (AEL-JAX) (FL NELAC certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J055915
Date/Time Received: 9/6/05 08:00

Lab Code: J055915-04
Client Sample ID: 4
Site: CEF-334-02SA
Matrix: Water

Date/Time Sampled: 9/5/05 10:22
Shipping Method: Client drop off
Sampled By: William Kelly
Sampling Method: G

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	1	0.21	0.84	0.21	ug/L	U	SW8021B		J
Ethylbenzene	1	0.17	0.68	0.17	ug/L	U	SW8021B		J
m&p-Xylenes	1	0.40	1.6	0.40	ug/L	U	SW8021B		J
Methyl-tert-butyl Ether	1	0.35	1.4	0.35	ug/L	U	SW8021B		J
o-Xylene	1	0.23	0.92	0.23	ug/L	U	SW8021B		J
Toluene	1	0.23	0.92	0.23	ug/L	U	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
1-Bromo-4-chlorobenzene	75 - 119	100		SW8021B	SW5030B

U The compound was analyzed for but not detected.
J DOH certification #E82574 (AEL-JAX) (FL NELAC certification)

Lab Code: J055915-05
Client Sample ID: 5
Site: CEF-811-17S
Matrix: Water

Date/Time Sampled: 9/5/05 11:08
Shipping Method: Client drop off
Sampled By: William Kelly
Sampling Method: G

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	1	0.21	0.84	0.21	ug/L	U	SW8021B		J
Ethylbenzene	1	0.17	0.68	0.17	ug/L	U	SW8021B		J
m&p-Xylenes	1	0.40	1.6	0.40	ug/L	U	SW8021B		J
Methyl-tert-butyl Ether	1	0.35	1.4	0.35	ug/L	U	SW8021B		J
o-Xylene	1	0.23	0.92	0.23	ug/L	U	SW8021B		J
Toluene	1	0.23	0.92	0.23	ug/L	U	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
1-Bromo-4-chlorobenzene	75 - 119	100		SW8021B	SW5030B

U The compound was analyzed for but not detected.
J DOH certification #E82574 (AEL-JAX) (FL NELAC certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J055915
Date/Time Received: 9/6/05 08:00

Lab Code: J055915-06
Client Sample ID: 6
Site: CEF-811-16SR
Matrix: Water

Date/Time Sampled: 9/5/05 11:55
Shipping Method: Client drop off
Sampled By: William Kelly
Sampling Method: G

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	3	0.63	2.5	0.63	ug/L	U	SW8021B		J
Ethylbenzene	3	0.51	2.0	0.51	ug/L	U	SW8021B		J
m&p-Xylenes	3	1.2	4.8	1.2	ug/L	U	SW8021B		J
Methyl-tert-butyl Ether	3	1.1	4.2	1.1	ug/L	U	SW8021B		J
o-Xylene	3	0.69	2.8	0.69	ug/L	U	SW8021B		J
Toluene	3	0.69	2.8	0.69	ug/L	U	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
1-Bromo-4-chlorobenzene	75 - 119	100		SW8021B	SW5030B

U The compound was analyzed for but not detected.
J DOH certification #E82574 (AEL-JAX) (FL NELAC certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J055915
Date/Time Received: 9/6/05 08:00

Lab Code: J055915-07
Client Sample ID: 7
Site: EQUIPMENT BLANK
Matrix: Water

Date/Time Sampled: 9/4/05 15:40
Shipping Method: Client drop off
Sampled By: William Kelly
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHS	1	280	1100	280	ug/L	U	FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1.01	0.12	0.50	0.12	ug/L	U	AEL SOP SVOC-008; 2-25-03		J
2-Methylnaphthalene	1.01	0.18	0.72	0.18	ug/L	U	SW8270C-SIM		J
Acenaphthene	1.01	0.13	0.52	0.13	ug/L	U	SW8270C-SIM		J
Acenaphthylene	1.01	0.13	0.52	0.13	ug/L	U	SW8270C-SIM		J
Anthracene	1.01	0.081	0.32	0.081	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1.01	0.11	0.45	0.11	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1.01	0.095	0.38	0.095	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1.01	0.081	0.33	0.081	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1.01	0.093	0.37	0.093	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1.01	0.083	0.33	0.083	ug/L	U	SW8270C-SIM		J
Chrysene	1.01	0.060	0.24	0.060	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1.01	0.10	0.41	0.10	ug/L	U	SW8270C-SIM		J
Fluoranthene	1.01	0.085	0.34	0.085	ug/L	U	SW8270C-SIM		J
Fluorene	1.01	0.11	0.42	0.11	ug/L	U	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1.01	0.15	0.60	0.15	ug/L	U	SW8270C-SIM		J
Naphthalene	1.01	0.15	0.61	0.15	ug/L	U	SW8270C-SIM		J
Phenanthrene	1.01	0.10	0.40	0.10	ug/L	U	SW8270C-SIM		J
Pyrene	1.01	0.12	0.48	0.12	ug/L	U	SW8270C-SIM		J

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	1	0.21	0.84	0.21	ug/L	U	SW8021B		J
Ethylbenzene	1	0.17	0.68	0.17	ug/L	U	SW8021B		J
m&p-Xylenes	1	0.40	1.6	0.40	ug/L	U	SW8021B		J
Methyl-tert-butyl Ether	1	0.35	1.4	0.35	ug/L	U	SW8021B		J
o-Xylene	1	0.23	0.92	0.23	ug/L	U	SW8021B		J
Toluene	1	0.23	0.92	0.23	ug/L	U	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
Nonatricontane	42 - 193	73		FL-PRO	METHOD
Ortho-Terphenyl	82 - 142	88		FL-PRO	METHOD
1-Bromo-4-chlorobenzene	75 - 119	100		SW8021B	SW5030B
Decafluorobiphenyl	21 - 122	67		SW8270C-SIM	SW3510C

U The compound was analyzed for but not detected.
J DOH certification #E82574 (AEL-JAX) (FL NELAC certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J055915
Date/Time Received: 9/6/05 08:00

Lab Code: J055915-08
Client Sample ID: 8
Site: CEF-334-02SA
Matrix: Water

Date/Time Sampled: 9/5/05 10:22
Shipping Method: Client drop off
Sampled By: William Kelly
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHS	1	280	1100	**960**	ug/L	i	FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1	0.12	0.49	**0.12**	ug/L	U	AEL SOP SVOC-006: 2-25-03		J
2-Methylnaphthalene	1	0.18	0.71	**0.18**	ug/L	U	SW8270C-SIM		J
Acenaphthene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Acenaphthylene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Anthracene	1	0.080	0.32	**0.080**	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1	0.11	0.45	**0.11**	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1	0.094	0.38	**0.094**	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1	0.081	0.32	**0.081**	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1	0.092	0.37	**0.092**	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1	0.082	0.33	**0.082**	ug/L	U	SW8270C-SIM		J
Chrysene	1	0.060	0.24	**0.060**	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1	0.10	0.41	**0.10**	ug/L	U	SW8270C-SIM		J
Fluoranthene	1	0.084	0.34	**0.084**	ug/L	U	SW8270C-SIM		J
Fluorene	1	0.10	0.42	**0.10**	ug/L	U	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1	0.15	0.59	**0.15**	ug/L	U	SW8270C-SIM		J
Naphthalene	1	0.15	0.61	**0.15**	ug/L	U	SW8270C-SIM		J
Phenanthrene	1	0.10	0.40	**0.10**	ug/L	U	SW8270C-SIM		J
Pyrene	1	0.12	0.48	**0.12**	ug/L	U	SW8270C-SIM		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
Nonatricontane	42 - 193	52		FL-PRO	METHOD
Ortho-Terphenyl	82 - 142	82		FL-PRO	METHOD
Decafluorobiphenyl	21 - 122	66		SW8270C-SIM	SW3510C

i The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U The compound was analyzed for but not detected.
J DOH certification #E82574 (AEL-JAX) (FL NELAC certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J055915
Date/Time Received: 9/6/05 08:00

Lab Code: J055915-09
Client Sample ID: 9
Site: CEF-811-17S
Matrix: Water

Date/Time Sampled: 9/5/05 11:08
Shipping Method: Client drop off
Sampled By: William Kelly
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHS	1	280	1100	300	ug/L	I	FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1.01	0.12	0.50	0.12	ug/L	U	AEL SOP SVOC-006: 2-25-03		J
2-Methylnaphthalene	1.01	0.18	0.72	0.18	ug/L	U	SW8270C-SIM		J
Acenaphthene	1.01	0.13	0.52	0.13	ug/L	U	SW8270C-SIM		J
Acenaphthylene	1.01	0.13	0.52	0.13	ug/L	U	SW8270C-SIM		J
Anthracene	1.01	0.081	0.32	0.081	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1.01	0.11	0.45	0.11	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1.01	0.095	0.38	0.095	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1.01	0.081	0.33	0.081	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1.01	0.093	0.37	0.093	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1.01	0.083	0.33	0.083	ug/L	U	SW8270C-SIM		J
Chrysene	1.01	0.060	0.24	0.060	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1.01	0.10	0.41	0.10	ug/L	U	SW8270C-SIM		J
Fluoranthene	1.01	0.085	0.34	0.085	ug/L	U	SW8270C-SIM		J
Fluorene	1.01	0.11	0.42	0.11	ug/L	U	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1.01	0.15	0.60	0.15	ug/L	U	SW8270C-SIM		J
Naphthalene	1.01	0.15	0.61	0.15	ug/L	U	SW8270C-SIM		J
Phenanthrene	1.01	0.10	0.40	0.10	ug/L	U	SW8270C-SIM		J
Pyrene	1.01	0.12	0.46	0.12	ug/L	U	SW8270C-SIM		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
Nonatricontane	42 - 193	86		FL-PRO	METHOD
Ortho-Terphenyl	82 - 142	70	J4	FL-PRO	METHOD
Decafluorobiphenyl	21 - 122	61		SW8270C-SIM	SW3510C

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J4 The sample matrix interfered with the ability to make an accurate determination.
U The compound was analyzed for but not detected.
J DOH certification #E82574 (AEL-JAX) (FL NELAC certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J055915
Date/Time Received: 9/6/05 08:00

Lab Code: J055915-10
Client Sample ID: 10
Site: CEF-811-16SR
Matrix: Water

Date/Time Sampled: 9/5/05 11:55
Shipping Method: Client drop off
Sampled By: William Kelly
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHS	1	280	1100	280	ug/L	U	FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1.01	0.12	0.50	0.12	ug/L	U	AEL SOP SVOC-006: 2-25-03		J
2-Methylnaphthalene	1.01	0.18	0.72	0.18	ug/L	U	SW8270C-SIM		J
Acenaphthene	1.01	0.13	0.52	0.13	ug/L	U	SW8270C-SIM		J
Acenaphthylene	1.01	0.13	0.52	0.13	ug/L	U	SW8270C-SIM		J
Anthracene	1.01	0.081	0.32	0.081	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1.01	0.11	0.45	0.11	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1.01	0.095	0.38	0.095	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1.01	0.081	0.33	0.081	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1.01	0.093	0.37	0.093	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1.01	0.083	0.33	0.083	ug/L	U	SW8270C-SIM		J
Chrysene	1.01	0.060	0.24	0.060	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1.01	0.10	0.41	0.10	ug/L	U	SW8270C-SIM		J
Fluoranthene	1.01	0.085	0.34	0.085	ug/L	U	SW8270C-SIM		J
Fluorene	1.01	0.11	0.42	0.11	ug/L	U	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1.01	0.15	0.60	0.15	ug/L	U	SW8270C-SIM		J
Naphthalene	1.01	0.15	0.61	0.15	ug/L	U	SW8270C-SIM		J
Phenanthrene	1.01	0.10	0.40	0.10	ug/L	U	SW8270C-SIM		J
Pyrene	1.01	0.12	0.48	0.12	ug/L	U	SW8270C-SIM		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
Nonatricontane	42 - 193	72		FL-PRO	METHOD
Ortho-Terphenyl	62 - 142	71	J4	FL-PRO	METHOD
Decafluorobiphenyl	21 - 122	54		SW8270C-SIM	SW3510C

J4 The sample matrix interfered with the ability to make an accurate determination.
U The compound was analyzed for but not detected.
J DOH certification #E82674 (AEL-JAX) (FL NELAC certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J055915
Date/Time Received: 9/6/05 08:00

Lab Code: J055915-11
Client Sample ID: 11
Site: CEF-334-34S
Matrix: Water

Date/Time Sampled: 9/5/05 12:46
Shipping Method: Client drop off
Sampled By: William Kelly
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHS	1	280	1100	3900	ug/L		FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1	0.12	0.49	0.12	ug/L	U	AEL SOP SVOC-006: 2-25-03		J
2-Methylnaphthalene	1	0.18	0.71	0.18	ug/L	U	SW8270C-SIM		J
Acenaphthene	1	0.13	0.51	0.13	ug/L	U	SW8270C-SIM		J
Acenaphthylene	1	0.13	0.51	0.13	ug/L	U	SW8270C-SIM		J
Anthracene	1	0.080	0.32	0.080	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1	0.11	0.45	0.11	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1	0.094	0.38	0.094	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1	0.081	0.32	0.081	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1	0.092	0.37	0.092	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1	0.082	0.33	0.082	ug/L	U	SW8270C-SIM		J
Chrysene	1	0.060	0.24	0.060	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1	0.10	0.41	0.10	ug/L	U	SW8270C-SIM		J
Fluoranthene	1	0.084	0.34	0.084	ug/L	U	SW8270C-SIM		J
Fluorene	1	0.10	0.42	0.10	ug/L	U	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1	0.15	0.59	0.15	ug/L	U	SW8270C-SIM		J
Naphthalene	1	0.15	0.61	0.15	ug/L	U	SW8270C-SIM		J
Phenanthrene	1	0.10	0.40	0.10	ug/L	U	SW8270C-SIM		J
Pyrene	1	0.12	0.48	0.12	ug/L	U	SW8270C-SIM		J

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	1	0.21	0.84	0.21	ug/L	U	SW8021B		J
Ethylbenzene	1	0.17	0.68	0.17	ug/L	U	SW8021B		J
m&p-Xylenes	1	0.40	1.6	0.40	ug/L	U	SW8021B		J
Methyl-tert-butyl Ether	1	0.35	1.4	0.35	ug/L	U	SW8021B		J
o-Xylene	1	0.23	0.92	0.23	ug/L	U	SW8021B		J
Toluene	1	0.23	0.92	0.23	ug/L	U	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
Nonatriacontane	42 - 193	53		FL-PRO	METHOD
Ortho-Terphenyl	82 - 142	90		FL-PRO	METHOD
1-Bromo-4-chlorobenzene	75 - 119	106		SW8021B	SW5030B
Decafluorobiphenyl	21 - 122	57		SW8270C-SIM	SW3510C

U The compound was analyzed for but not detected.
J DOH certification #E82574 (AEL-JAX) (FL NELAC certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J055915
Date/Time Received: 9/6/05 08:00

Lab Code: J055915-12
Client Sample ID: 12
Site: CEF-339-28S
Matrix: Water

Date/Time Sampled: 9/5/05 14:14
Shipping Method: Client drop off
Sampled By: William Kelly
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHS	1	280	1100	390	ug/L	I	FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1	0.12	0.49	0.34	ug/L	I	AEL SOP SVOC-006: 2-25-03		J
2-Methylnaphthalene	1	0.18	0.71	0.28	ug/L	I	SW8270C-SIM		J
Acenaphthene	1	0.13	0.51	0.13	ug/L	U	SW8270C-SIM		J
Acenaphthylene	1	0.13	0.51	0.13	ug/L	U	SW8270C-SIM		J
Anthracene	1	0.080	0.32	0.080	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1	0.11	0.45	0.11	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1	0.094	0.38	0.094	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1	0.081	0.32	0.081	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1	0.092	0.37	0.092	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1	0.082	0.33	0.082	ug/L	U	SW8270C-SIM		J
Chrysene	1	0.060	0.24	0.060	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1	0.10	0.41	0.10	ug/L	U	SW8270C-SIM		J
Fluoranthene	1	0.084	0.34	0.084	ug/L	U	SW8270C-SIM		J
Fluorene	1	0.10	0.42	0.10	ug/L	U	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1	0.15	0.59	0.15	ug/L	U	SW8270C-SIM		J
Naphthalene	1	0.15	0.61	1.4	ug/L		SW8270C-SIM		J
Phenanthrene	1	0.10	0.40	0.10	ug/L	U	SW8270C-SIM		J
Pyrene	1	0.12	0.48	0.12	ug/L	U	SW8270C-SIM		J

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	1	0.21	0.84	0.21	ug/L	U	SW8021B		J
Ethylbenzene	1	0.17	0.68	0.17	ug/L	U	SW8021B		J
m&p-Xylenes	1	0.40	1.6	0.40	ug/L	U	SW8021B		J
Methyl-tert-butyl Ether	1	0.35	1.4	0.35	ug/L	U	SW8021B		J
o-Xylene	1	0.23	0.92	0.23	ug/L	U	SW8021B		J
Toluene	1	0.23	0.92	0.74	ug/L	I	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual	Method	Prep Method
Nonatricontane	42 - 193	55		FL-PRO	METHOD
Ortho-Terphenyl	82 - 142	79	J4	FL-PRO	METHOD
1-Bromo-4-chlorobenzene	75 - 119	102		SW8021B	SW5030B
Decafluorobiphenyl	21 - 122	51		SW8270C-SIM	SW3510C

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J4 The sample matrix interfered with the ability to make an accurate determination.
U The compound was analyzed for but not detected.
J DOH certification #E82574 (AEL-JAX) (FL NELAC certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J055915
Date/Time Received: 9/6/05 08:00

Lab Code: J055915-13
Client Sample ID: 13
Site: CEF-339-29S
Matrix: Water

Date/Time Sampled: 9/5/05 13:30
Shipping Method: Client drop off
Sampled By: William Kelly
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHS	1	260	1100	310	ug/L	I	FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1	0.12	0.49	0.12	ug/L	U	AEL SOP SVOC-006; 2-25-03		J
2-Methylnaphthalene	1	0.18	0.71	0.18	ug/L	U	SW8270C-SIM		J
Acenaphthene	1	0.13	0.51	0.13	ug/L	U	SW8270C-SIM		J
Acenaphthylene	1	0.13	0.51	0.13	ug/L	U	SW8270C-SIM		J
Anthracene	1	0.080	0.32	0.080	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1	0.11	0.45	0.11	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1	0.094	0.38	0.094	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1	0.081	0.32	0.081	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1	0.092	0.37	0.092	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1	0.082	0.33	0.082	ug/L	U	SW8270C-SIM		J
Chrysene	1	0.060	0.24	0.060	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1	0.10	0.41	0.10	ug/L	U	SW8270C-SIM		J
Fluoranthene	1	0.084	0.34	0.084	ug/L	U	SW8270C-SIM		J
Fluorene	1	0.10	0.42	0.10	ug/L	U	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1	0.15	0.59	0.15	ug/L	U	SW8270C-SIM		J
Naphthalene	1	0.15	0.61	0.17	ug/L	I	SW8270C-SIM		J
Phenanthrene	1	0.10	0.40	0.10	ug/L	U	SW8270C-SIM		J
Pyrene	1	0.12	0.48	0.12	ug/L	U	SW8270C-SIM		J

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	1	0.21	0.84	0.21	ug/L	U	SW8021B		J
Ethylbenzene	1	0.17	0.68	0.17	ug/L	U	SW8021B		J
m&p-Xylenes	1	0.40	1.6	0.40	ug/L	U	SW8021B		J
Methyl-tert-butyl Ether	1	0.35	1.4	0.35	ug/L	U	SW8021B		J
o-Xylene	1	0.23	0.92	0.23	ug/L	U	SW8021B		J
Toluene	1	0.23	0.92	0.23	ug/L	U	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
Nonatricontane	42 - 193	61		FL-PRO	METHOD
Ortho-Terphenyl	82 - 142	78	J4	FL-PRO	METHOD
1-Bromo-4-chlorobenzene	75 - 119	100		SW8021B	SW5030B
Decafluorobiphenyl	21 - 122	46		SW8270C-SIM	SW3510C

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J4 The sample matrix interfered with the ability to make an accurate determination.
U The compound was analyzed for but not detected.
J DOH certification #E82574 (AEL-JAX) (FL NELAC certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J055915
Date/Time Received: 9/6/05 08:00

Lab Code: J055915-14
Client Sample ID: 14
Site: CEF-811-18S
Matrix: Water

Date/Time Sampled: 9/5/05 15:00
Shipping Method: Client drop off
Sampled By: William Kelly
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHS	1	260	1100	3800	ug/L		FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1.01	0.12	0.50	21	ug/L		AEL SOP SVOC-006: 2-25-03		J
2-Methylnaphthalene	1.01	0.18	0.72	22	ug/L		SW8270C-SIM		J
Acenaphthene	1.01	0.13	0.52	0.14	ug/L	I	SW8270C-SIM		J
Acenaphthylene	1.01	0.13	0.52	0.13	ug/L	U	SW8270C-SIM		J
Anthracene	1.01	0.081	0.32	0.081	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1.01	0.11	0.45	0.11	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1.01	0.095	0.38	0.095	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1.01	0.081	0.33	0.081	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1.01	0.093	0.37	0.093	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1.01	0.083	0.33	0.083	ug/L	U	SW8270C-SIM		J
Chrysene	1.01	0.060	0.24	0.060	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1.01	0.10	0.41	0.10	ug/L	U	SW8270C-SIM		J
Fluoranthene	1.01	0.085	0.34	0.085	ug/L	U	SW8270C-SIM		J
Fluorene	1.01	0.11	0.42	0.28	ug/L	I	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1.01	0.15	0.60	0.15	ug/L	U	SW8270C-SIM		J
Naphthalene	1.01	0.15	0.61	90	ug/L		SW8270C-SIM		J
Phenanthrene	1.01	0.10	0.40	0.10	ug/L	U	SW8270C-SIM		J
Pyrene	1.01	0.12	0.48	0.12	ug/L	U	SW8270C-SIM		J

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	3	0.63	2.5	0.63	ug/L	U	SW8021B		J
Ethylbenzene	3	0.51	2.0	17	ug/L		SW8021B		J
m&p-Xylenes	3	1.2	4.8	12	ug/L		SW8021B		J
Methyl-tert-butyl Ether	3	1.1	4.2	1.1	ug/L	U	SW8021B		J
o-Xylene	3	0.69	2.8	3.5	ug/L		SW8021B		J
Toluene	3	0.69	2.8	0.69	ug/L	U	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
Nonatricontane	42 - 193	65		FL-PRO	METHOD
Ortho-Terphenyl	82 - 142	116		FL-PRO	METHOD
1-Bromo-4-chlorobenzene	75 - 119	110		SW8021B	SW5030B
Decafluorobiphenyl	21 - 122	53		SW8270C-SIM	SW3510C

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U The compound was analyzed for but not detected.
J DOH certification #E82574 (AEL-JAX) (FL NELAC certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J055915
Date/Time Received: 9/6/05 08:00

Lab Code: J055915-15
Client Sample ID: 15
Site: DUP 1
Matrix: Water

Date/Time Sampled: 9/5/05 15:23
Shipping Method: Client drop off
Sampled By: William Kelly
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHS	10	2800	11000	5200	ug/L	I , J4	FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1	0.12	0.49	25	ug/L		AEL SOP SVOC-006: 2-25-03		J
2-Methylnaphthalene	1	0.18	0.71	28	ug/L		SW8270C-SIM		J
Acenaphthene	1	0.13	0.51	0.14	ug/L	I	SW8270C-SIM		J
Acenaphthylene	1	0.13	0.51	0.13	ug/L	U	SW8270C-SIM		J
Anthracene	1	0.080	0.32	0.080	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1	0.11	0.45	0.11	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1	0.094	0.38	0.094	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1	0.081	0.32	0.081	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1	0.092	0.37	0.092	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1	0.082	0.33	0.082	ug/L	U	SW8270C-SIM		J
Chrysene	1	0.060	0.24	0.060	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1	0.10	0.41	0.10	ug/L	U	SW8270C-SIM		J
Fluoranthene	1	0.084	0.34	0.084	ug/L	U	SW8270C-SIM		J
Fluorene	1	0.10	0.42	0.34	ug/L	I	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1	0.15	0.59	0.15	ug/L	U	SW8270C-SIM		J
Naphthalene	1	0.15	0.61	90	ug/L		SW8270C-SIM		J
Phenanthrene	1	0.10	0.40	0.10	ug/L	U	SW8270C-SIM		J
Pyrene	1	0.12	0.48	0.12	ug/L	U	SW8270C-SIM		J

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	20	4.2	17	4.2	ug/L	U	SW8021B		J
Ethylbenzene	20	3.4	14	16	ug/L		SW8021B		J
m&p-Xylenes	20	8.0	32	10	ug/L	I	SW8021B		J
Methyl-tert-butyl Ether	20	7.0	28	7.0	ug/L	U	SW8021B		J
o-Xylene	20	4.6	18	4.6	ug/L	U	SW8021B		J
Toluene	20	4.6	18	4.6	ug/L	U	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
Nonatricontane	42 - 193	56		FL-PRO	METHOD
Ortho-Terphenyl	82 - 142	142		FL-PRO	METHOD
1-Bromo-4-chlorobenzene	75 - 119	102		SW8021B	SW5030B
Decafluorobiphenyl	21 - 122	58		SW8270C-SIM	SW3510C

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J4 The sample matrix interfered with the ability to make an accurate determination.
U The compound was analyzed for but not detected.
J DOH certification #E82574 (AEL-JAX) (FL NELAC certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J055915
Date/Time Received: 9/6/05 08:00

Lab Code: J055915-16
Client Sample ID: 16
Site: TRIP BLANK
Matrix: Water

Date/Time Sampled: 9/4/05 13:00
Shipping Method: Client drop off
Sampled By: William Kelly
Sampling Method: G

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	1	0.21	0.84	0.21	ug/L	U	SW8021B		J
Ethylbenzene	1	0.17	0.68	1.5	ug/L		SW8021B		J
m&p-Xylenes	1	0.40	1.6	0.85	ug/L	I	SW8021B		J
Methyl-tert-butyl Ether	1	0.35	1.4	0.35	ug/L	U	SW8021B		J
o-Xylene	1	0.23	0.92	0.23	ug/L	U	SW8021B		J
Toluene	1	0.23	0.92	0.23	ug/L	U	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
1-Bromo-4-chlorobenzene	75 - 119	82		SW8021B	SW5030B

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U The compound was analyzed for but not detected.
J DOH certification #E82574 (AEL-JAX) (FL NELAC certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J055915
Date/Time Received: 9/6/05 08:00

Sample Cross Reference Information

Lab Code: J055915-01
Client Sample Number: 1

Site: NG-24S
Matrix: Water

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time		Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	sv091006etp	9/13/05	14:08	MD	oe090805pro	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-006: 2-25-03	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805sim	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805sim	9/8/05 08:00:00
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v090705c	9/8/05	15:18	RMB	v090705c	9/8/05 15:18:00

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Lab Code: J055915-02
Client Sample Number: 2

Site: CEF-334-32S
Matrix: Water

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time		Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	sv091006etp	9/13/05	14:08	MD	oe090805pro	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-006: 2-25-03	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805sim	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805sim	9/8/05 08:00:00
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v090705c	9/8/05	15:18	RMB	v090705c	9/8/05 15:18:00

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Lab Code: J055915-03
Client Sample Number: 3

Site: CEF-334-33S
Matrix: Water

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time		Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	sv091006etp	9/13/05	14:08	MD	oe090805pro	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805sim	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-006: 2-25-03	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805sim	9/8/05 08:00:00
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v090705c	9/8/05	15:18	RMB	v090705c	9/8/05 15:18:00

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Lab Code: J055915-04
Client Sample Number: 4

Site: CEF-334-02SA
Matrix: Water

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time		Analyst	Prep Batch ID	Prep Date/Time
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v090705c	9/8/05	15:18	RMB	v090705c	9/8/05 15:18:00

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Lab Code: J055915-05
Client Sample Number: 5

Site: CEF-811-17S
Matrix: Water

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time		Analyst	Prep Batch ID	Prep Date/Time
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v090705c	9/8/05	15:18	RMB	v090705c	9/8/05 15:18:00

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS

Project Name: Cecil Field-Jet C

Report No.: J055915

Date/Time Received: 9/6/05 08:00

Lab Code: J055915-06

Client Sample Number: 6

Site: CEF-811-16SR

Matrix: Water

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time		Analyst	Prep Batch ID	Prep Date/Time
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v090705c	9/8/05	15:18	RMB	v090705c	9/8/05 15:18:00

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Lab Code: J055915-07

Client Sample Number: 7

Site: EQUIPMENT BLANK

Matrix: Water

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time		Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	sv091005efp	9/13/05	14:08	MD	oe090805pro	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-006: 2-25-03	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805slm	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805slm	9/8/05 08:00:00
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v090705c	9/8/05	15:18	RMB	v090705c	9/8/05 15:18:00

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Lab Code: J055915-08

Client Sample Number: 8

Site: CEF-334-02SA

Matrix: Water

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time		Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	sv091005efp	9/13/05	14:08	MD	oe090805pro	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-006: 2-25-03	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805slm	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805slm	9/8/05 08:00:00

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Lab Code: J055915-09

Client Sample Number: 9

Site: CEF-811-17S

Matrix: Water

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time		Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	sv091005efp	9/13/05	14:08	MD	oe090805pro	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805slm	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-006: 2-25-03	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805slm	9/8/05 08:00:00

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Lab Code: J055915-10

Client Sample Number: 10

Site: CEF-811-16SR

Matrix: Water

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time		Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	sv091005efp	9/13/05	14:08	MD	oe090805pro	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805slm	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-006: 2-25-03	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805slm	9/8/05 08:00:00

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS

Project Name: Cecil Field-Jet C

Report No.: J055915

Date/Time Received: 9/6/05 08:00

Lab Code: J055915-11

Client Sample Number: 11

Site: CEF-334-34S

Matrix: Water

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time		Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	sv091005efp	9/13/05	14:08	MD	oe090805pro	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805sim	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-008: 2-25-03	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805sim	9/8/05 08:00:00
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v090705c	9/8/05	15:18	RMB	v090705c	9/8/05 15:18:00

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Lab Code: J055915-12

Client Sample Number: 12

Site: CEF-339-28S

Matrix: Water

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time		Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	sv091005efp	9/13/05	14:08	MD	oe090805pro	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-008: 2-25-03	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805sim	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805sim	9/8/05 08:00:00
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v090705c	9/8/05	15:18	RMB	v090705c	9/8/05 15:18:00

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Lab Code: J055915-13

Client Sample Number: 13

Site: CEF-339-29S

Matrix: Water

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time		Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	sv091005efp	9/13/05	14:08	MD	oe090805pro	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-008: 2-25-03	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805sim	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805sim	9/8/05 08:00:00
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v090705c	9/8/05	15:18	RMB	v090705c	9/8/05 15:18:00

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Lab Code: J055915-14

Client Sample Number: 14

Site: CEF-811-18S

Matrix: Water

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time		Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	sv091005efp	9/13/05	14:08	MD	oe090805pro	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-008: 2-25-03	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805sim	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805sim	9/8/05 08:00:00
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v090705c	9/8/05	15:18	RMB	v090705c	9/8/05 15:18:00

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Lab Code: J055915-15

Client Sample Number: 15

Site: DUP 1

Matrix: Water

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time		Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	sv091005efp	9/13/05	14:08	MD	oe090805pro	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-008: 2-25-03	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805sim	9/8/05 08:00:00
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	sv090905n	9/10/05	00:20	WF	oe090805sim	9/8/05 08:00:00
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v090905c	9/9/05	17:25	RMB	v090905c	9/9/05 17:25:00

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS

Project Name: Cecil Field-Jet C

Lab Code: J055915-16

Client Sample Number: 16

Report No.: J055915

Date/Time Received: 9/6/05 08:00

Site: TRIP BLANK

Matrix: Water

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time		Analyst	Prep Batch ID	Prep Date/Time
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v090705c	9/8/05	15:18	RMB	v090705c	9/8/05 15:18:00

If the Analytical Batch ID and Prep Batch ID is null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS

Project Name: Cecil Field-Jet C

Report No.: J055915

Date/Time Received: 9/6/05 08:00

Quality Assurance Report

Method Blanks

Polynuclear Aromatic Hydrocarbons

QCBatchID	Analyte	QC Sample Type	Method	MDL	Result	Units	Qualifier
sv090905n	1-Methylnaphthalene	Method Blank	AEL SOP SVOC-008: 2-25-03	0.12	0.12	ug/L	U
sv090905n	2-Methylnaphthalene	Method Blank	SW8270C-SIM	0.18	0.18	ug/L	U
sv090905n	Acenaphthene	Method Blank	SW8270C-SIM	0.13	0.13	ug/L	U
sv090905n	Acenaphthylene	Method Blank	SW8270C-SIM	0.13	0.13	ug/L	U
sv090905n	Anthracene	Method Blank	SW8270C-SIM	0.080	0.080	ug/L	U
sv090905n	Benzo(a)anthracene	Method Blank	SW8270C-SIM	0.11	0.11	ug/L	U
sv090905n	Benzo(a)pyrene	Method Blank	SW8270C-SIM	0.094	0.094	ug/L	U
sv090905n	Benzo(b)fluoranthene	Method Blank	SW8270C-SIM	0.081	0.081	ug/L	U
sv090905n	Benzo(g,h,i)perylene	Method Blank	SW8270C-SIM	0.092	0.092	ug/L	U
sv090905n	Benzo(k)fluoranthene	Method Blank	SW8270C-SIM	0.082	0.082	ug/L	U
sv090905n	Chrysene	Method Blank	SW8270C-SIM	0.060	0.060	ug/L	U
sv090905n	Dibenz(a,h)anthracene	Method Blank	SW8270C-SIM	0.10	0.10	ug/L	U
sv090905n	Fluoranthene	Method Blank	SW8270C-SIM	0.084	0.084	ug/L	U
sv090905n	Fluorene	Method Blank	SW8270C-SIM	0.10	0.10	ug/L	U
sv090905n	Indeno(1,2,3-cd)pyrene	Method Blank	SW8270C-SIM	0.15	0.15	ug/L	U
sv090905n	Naphthalene	Method Blank	SW8270C-SIM	0.15	0.15	ug/L	U
sv090905n	Phenanthrene	Method Blank	SW8270C-SIM	0.10	0.10	ug/L	U
sv090905n	Pyrene	Method Blank	SW8270C-SIM	0.12	0.12	ug/L	U

Surrogate(s)	Result	Units	% Recovery	Qualifier	Acceptance Limits
Decafluorobiphenyl	14	ug/L	57		21 - 122

Florida Petroleum Range Organics

QCBatchID	Analyte	QC Sample Type	Method	MDL	Result	Units	Qualifier
sv091005efp	Total PHS	Method Blank	FL-PRO	280	280	ug/L	U

Surrogate(s)	Result	Units	% Recovery	Qualifier	Acceptance Limits
Ortho-Terphenyl	38	ug/L	76		82 - 142
Nonatricontane	130	ug/L	44		42 - 193

Volatile Aromatic Hydrocarbons

QCBatchID	Analyte	QC Sample Type	Method	MDL	Result	Units	Qualifier
v090705c	Benzene	Method Blank	SW8021B	0.21	0.21	ug/L	U
v090705c	Ethylbenzene	Method Blank	SW8021B	0.17	0.17	ug/L	U
v090705c	m&p-Xylenes	Method Blank	SW8021B	0.40	0.40	ug/L	U
v090705c	Methyl-tert-butyl Ether	Method Blank	SW8021B	0.35	0.35	ug/L	U
v090705c	o-Xylene	Method Blank	SW8021B	0.23	0.23	ug/L	U
v090705c	Toluene	Method Blank	SW8021B	0.23	0.23	ug/L	U

Surrogate(s)	Result	Units	% Recovery	Qualifier	Acceptance Limits
1-Bromo-4-chlorobenzene	49	ug/L	98		75 - 119

Volatile Aromatic Hydrocarbons

QCBatchID	Analyte	QC Sample Type	Method	MDL	Result	Units	Qualifier
v090905c	Benzene	Method Blank	SW8021B	0.21	0.21	ug/L	U
v090905c	Ethylbenzene	Method Blank	SW8021B	0.17	0.17	ug/L	U
v090905c	m&p-Xylenes	Method Blank	SW8021B	0.40	0.40	ug/L	U
v090905c	Methyl-tert-butyl Ether	Method Blank	SW8021B	0.35	0.35	ug/L	U
v090905c	o-Xylene	Method Blank	SW8021B	0.23	0.23	ug/L	U
v090905c	Toluene	Method Blank	SW8021B	0.23	0.23	ug/L	U

Surrogate(s)	Result	Units	% Recovery	Qualifier	Acceptance Limits
1-Bromo-4-chlorobenzene	51	ug/L	102		75 - 119

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS

Project Name: Cecil Field-Jet C

Report No.: J055915

Date/Time Received: 9/6/05 08:00

Quality Assurance Qualifiers:

U The compound was analyzed for but not detected.

Definitions:

Water matrix refers to all aqueous matrices except drinking water, including but not limited to, wastewater, ground water, surface water, aqueous wastes and leach
Soil matrix refers to all non-aqueous matrices, including soils, solids, sludges, semi-solids, and non-aqueous waste samples
All results in mg/kg or % are reported in dry weight basis, unless notated otherwise. All results in mg/L are reported in wet weight basis.
MDL Method Detection Limit, without correction for dilution or moisture content
Adjusted Reporting Limit is the MDL accounting for all dilutions and moisture content caclulations.
PQL is defined to be 4 times the MDL, for all results qualified with a 'I' qualifier.
Sampling Method; G=Grab, P=Pump, C=Composite

The estimated measurements of uncertainty can be provided upon request

This is the last page of the analytical report.

La Advanced Environmental Labs Inc

Advanced Environmental
6601 Southpoint Parkway
Jacksonville, FL 32216

Client: URS

Project name: Cal Field JETC

Date/Time Rcvd: 9/6/05 0800

Log-in request number: J055915

Received by: DS

Completed by: DS

Cooler/Shipping Information:

Courier: ☐ AEL ☒ Client ☐ UPS ☐ Pony Express ☐ FedEx ☐ AES ☐ ASAP ☐ Other (describe): _____

Type: ☒ Cooler ☐ Box ☐ Other (describe) _____

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

Cooler ID	1				
Temp (°C)	0°				
Temp taken from	☐ Sample Bottle ☒ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler
Temp measured with	☒ IR gun ☐ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID):

Other Information:

Any discrepancies should be explained in the "Comments" section below.

CHECKLIST	YES	NO	NA
1. Were custody seals on shipping container(s) intact?			✓
2. Were custody papers properly included with samples?	✓		
3. Were custody papers properly filled out (ink, signed, match labels)?	✓		
4. Did all bottles arrive in good condition (unbroken)?	✓		
5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)?	✓		
6. Did the sample labels agree with the chain of custody?	✓		
7. Were correct bottles used for the tests indicated?	✓		
8. Were proper sample preservation techniques indicated on the label?	✓		
9. Were samples received within holding times?	✓		
10. Were all VOA vials checked for the presence of air bubbles?	✓		
11. Were there air bubbles present in the VOA vials?		✓	
12. Were samples in direct contact with wet ice? If "No," check one: ☐ NO ICE ☐ BLUE ICE	✓		
13. Was the cooler temperature less than 6°C?	✓		
14. Were the sample containers provided by AEL?	✓		
15. Were samples accepted into the laboratory?	✓		
16. Was it necessary to split samples into other bottles?		✓	

Comments:

Advanced Environmental Laboratories, Inc.
☑ Jacksonville: 8601 Southpoint Parkway, Jacksonville, FL 32216 • (904) 363-9350 Fax (904) 363-9354
☐ Tampa: 9610 Princess Palm Avenue, Tampa, FL 33619 • (813) 630-9616 Fax (813) 630-4327
☐ Gainesville: 2106 NW 67th Place, Suite 7, Gainesville, FL 32606 • (352) 367-1500 Fax (352) 367-0050
☐ Orlando: 528 S. North Lake Blvd., Suite 1016, Altamonte Springs, FL 32701 • (407) 937-1594 Fax (407) 937-1597

CHAIN OF CUSTODY RECORD

L

J055915

10/23

CLIENT NAME: URS CORP	PROJECT NAME: CECIL FIELD - JETC
ADDRESS: 8761 PERIMETER PARK BLVD STEC, JAX, FL 32216	P.O. NUMBER / PROJECT NUMBER:
	PROJECT LOCATION:
PHONE: 904/645-6233 FAX: 904/645-6243	
CONTACT: William Kelly	SAMPLED BY: William Kelly
TURN AROUND TIME: ☑ STANDARD ☐ RUSH	REMARKS / SPECIAL INSTRUCTIONS: AEL PRE-LOG # Q0013

WW=waste water SW=surface water GW=ground water DW=drinking water OIL A=air SO=soil SL=sludge

SAMPLE ID	SAMPLE DESCRIPTION	Grab Composite	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. CONT.	BOTTLE SIZE & TYPE	8x40ml G	1 L.A.	1 L.A.					LAB NUMBER
							ANALYSIS REQUIRED	BTEX+MTBE BY EPA 8021	PAH BY EPA8270 SIM	TRPH BY FL-PRO					
							Preserv	HCl	I	S					
	NG-24S	G	9/4/05	1608	GW	5		X	X	X					01
	CEF-334-32S		9/5/05	0916	GW	5		X	X	X					02
	CEF-334-33S		9/5/05	0823	GW	5		X	X	X					03
	CEF-334-02SA		9/5/05	1022	GW	3		X							04
	CEF-811-17S		9/5/05	1108	GW	3		X							05
	CEF-811-16SR		9/5/05	1155	GW	3		X							06
	EQUIPMENT BLANK		9/4/05	1540	W	5		X	X	X					07

I = Ice H = (HCl) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate)

	Relinquished by:	Date	Time	Received by:	Date	Time
1	William Kelly	9/6/05	0800	D. Salter	9/6/05	0800
2						
3						
4						

Received on ice: ☑ yes ☐ no QC ☐ sent ☐ received

revised 8/01

Advanced Environmental Laboratories, Inc.
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CHAIN OF CUSTODY RECORD

LAB NUMBER: J059915

243

CLIENT NAME: URS CORP

PROJECT NAME: CECIL FIELD - JETC

ADDRESS: 8761 PERIMETER PARK BLVD STE 201, JAX, FL 32216

P.O. NUMBER / PROJECT NUMBER:

PROJECT LOCATION:

PHONE: 904/645-6233 FAX: 904/645-6243

CONTACT: WILLIAM KELLY

SAMPLED BY: William Kelly

TURN AROUND TIME: ☒ STANDARD ☐ RUSH _____

REMARKS / SPECIAL INSTRUCTIONS: AEL PRE-LOG # Q0013

WW=waste water SW=surface water GW=ground water DW=drinking water OIL A=air SO=soil SL=sludge

SAMPLE ID	SAMPLE DESCRIPTION	Grab Composite	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. CONT.	BTEX+MTBE BY EPA 8021 (3x40ml G)	TNT BY EPA 8270 SIM (1L AG)	TRPH BY FL-PRO (1LAG)					LAB NUMBER
						Preserv	H	I	S					
	CEF-334-02SA ✓	G	9/5/05	1022	GW	2		x	x					08
	CEF-811-17S ✓		9/5/05	1108		2		x	x					09
	CEF-811-16SR ✓		9/5/05	1155		2		x	x					10
	CEF-334-34S ✓		9/5/05	1246			x	x	x					11
	CEF-339-28S ✓		9/5/05	1414			x	x	x					12
	CEF-339-29S ✓		9/5/05	1330			x	x	x					13
	CEF-811-18S		9/5/05	1500			x	x	x					14
	DUP1	✓	9/5/05	1523	✓	9	x	x	x					15

I = Ice H = (HCl) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate)

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[illegible]	9/6/05	0800	[illegible]	9/6/05	0800
2						
3						
4						

Received on ice ☒ yes ☐ no QC ☐ sent ☐ received

revised 8/01

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CHAIN OF CUSTODY RECORD

LAB NUMBER: J059915

Page 2 of 3

3043

CLIENT NAME: ORS CORP	PROJECT NAME: CECIL FIELD - JETC
ADDRESS: 6724 PERIMETER PARK BLVD STE 201, JAX, FL 32216	P.O. NUMBER / PROJECT NUMBER:
	PROJECT LOCATION:
PHONE: 904/645-6233 FAX: 904/645-6243	
CONTACT: WILLIAM KELLY	SAMPLED BY: WILLIAM KELLY

TURN AROUND TIME: ☒ STANDARD ☐ RUSH _____

REMARKS / SPECIAL INSTRUCTIONS: AEL PRE-LOG # Q0013

WW=waste water SW=surface water GW=ground water DW=drinking water OIL A=air SO=soil SL=sludge

SAMPLE ID	SAMPLE DESCRIPTION	Grab Composite	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. CONT.	BOTTLE SIZE & TYPE: 3x40ml G							LAB NUMBER
							ANALYSIS REQUIRED: BTEX-MTBE BY EPA 8021							
							Preserv: 4							
	TRIP BLANK	G	9/4/05	1300	W	3	X							16 01

1 = Ice H = (HCl) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate)

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[illegible]	9/6/05	0800	[illegible]	9/6/05	0800
2						
3						
4						

Received on ice: ☑ yes ☐ no QC ☐ sent ☐ received

revised 8/01