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TECHNICAL MEMORANDUM POST-ACTIVE REMEDIATION MONITORING REPORT FOR SOUTH FUEL FARM SITE NAS CECIL FIELD FL

8/17/2009

CH2MHILL CONSTRUCTORS INC

TECHNICAL MEMORANDUM

Post-Active Remediation Monitoring Report South Fuel Farm Site Former Naval Air Station Cecil Field Jacksonville, Florida

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Introduction

CH2M HILL Constructors, Inc. (CH2M HILL) has prepared this Post-Active Remediation Monitoring Report to provide site contaminant information from one year of post-active remediation monitoring at the South Fuel Farm site, which is located at the Former Naval Air Station (NAS) Cecil Field, Jacksonville, Florida. The post-active remediation monitoring was conducted between February 2008 and March 2009 to confirm that target parameter concentrations remain below regulatory standards following discontinuation of the biosparging and bioventing systems. This report was developed for the U.S. Department of the Navy, Naval Facilities Engineering Command Southeast (NAVFAC SE) (the Navy) under Response Action Contract No. N62467-98-D-0995, Contract Task Order No. 0086.

The post-active remediation monitoring was conducted in accordance with the *Work Plan Addendum No. 12, Operation and Maintenance of the Remediation Systems at Day Tank 1, South Fuel Farm, and 103rd Street and A Avenue,* Rev. 02, dated January 2008, and the Sampling and Analysis Plan (SAP) for the site as presented in the CH2M HILL *Work Plan Addendum No. 12, Operation and Maintenance of the Remediation Systems at Day Tank 1, South Fuel Farm, and 103rd Street and A Avenue*, Rev. 00, dated April 2001.

Background

A biosparge/biovent system was in operation at this site from April 1998 to August 2007. CH2M HILL conducted supplemental soil and groundwater sampling during 2007 and performed an evaluation of the biosparging and bioventing systems at the site during 2006 and 2007 to provide recommendations for a path forward for remedial activities at the site. The findings of this evaluation were presented in the CH2M HILL Technical Memorandum (TM*) Evaluation of Biosparging and Bioventing Systems at the South Fuel Farm Facility, Naval Air*

Station, Cecil Field, Jacksonville, Florida, dated June 6, 2006, and TM *Evaluation of Supplemental Soil Sample Analytical Results from Area Between BS-1 and BV-4, South Fuel Farm Facility, Naval Air Station, Cecil Field, Jacksonville, Florida,* dated January 12, 2007. Both TMs concluded that concentrations of contaminants historically detected above industrial soil cleanup target levels (SCTLs) and groundwater cleanup target levels (GCTLs) had been reduced to levels below the respective soil and groundwater criteria as a result of the operation of the bioventing and biosparging systems and natural attenuation processes. Subsequently, the Navy proposed that the operation of the biosparging and bioventing system be discontinued. The Florida Department of Environmental Protection (FDEP) concurred with the Navy's proposed recommendation, with the stipulation that one year of post-active remediation monitoring of groundwater be conducted. The biosparging and bioventing systems were run intermittently during 2007 during evaluations and taken off-line during August 2007 after FDEP concurrence for shut down.

Post-Active Remediation Monitoring

Post-active remediation monitoring (i.e., groundwater and soil sampling) was conducted during 2008 and 2009 to evaluate parameter concentrations in comparison to the FDEP industrial SCTLs for soil and GCTLs for groundwater, after the bioventing and biosparging systems operations were discontinued. The post-active remediation monitoring was performed in accordance with the FDEP-approved SAP for the site, as referenced above. The SAP included the following post-active remediation monitoring requirements:

- Collection of soil samples from four locations in the area between biosparging well BS-01 and bioventing well BV-04. These soil borings were identified as A, B, C and D at locations shown in Figure 1.
- Collection of subsurface soil samples adjacent to 15 historically sampled soil borings (B-7, B-31, B-41, B-70, B-96, B-99, B-101, B-104, B-106, B-110, B-137, B-146, B-158, B-167, and B–189), to confirm natural attenuation of chemicals of concern. These soil boring locations are shown in Figure 1.
- Collection of surface soil samples from 0.5 to 2 feet below ground surface adjacent to seven historically sampled boring locations (B-41, B-96, B-101, B-104, B-106, B-146, and B–167) to verify whether surface soil concentrations are below residential SCTLs.
- Analysis for total recoverable petroleum hydrocarbons (TRPH) fractions as per the FDEP Total Petroleum Hydrocarbon Criteria Working Group (TPHCWG) guidance for soil samples with TRPH concentrations above the residential SCTL; the individual TRPH fractions were to be compared to calculated residential SCTLs for TRPH fractions based on the TPHCWG Method (FDEP Final Technical Report: Development of CTLs for Chapter 62-777, Florida Administrative Code, February 2005).
- Quarterly groundwater sampling for 1 year from wells CEF-043-02N, CEF-043-04N, CEF-043-06N, CEF-043-07N, and CEF-043-9N shown in Figure 1.

Soil Sampling

Surface soil samples were collected from seven of the 15 original soil borings described in the SAP (borings B-7, B-31, B-41, B-70, B-96, B-99, B-101, B-104, B-106, B-110, B-137, B-146, B-158, B-B-167, and B–189), and the additional four soil borings located between biosparging well BS-1 and bioventing well BV-4 (identified as A, B, C, and D).

Subsurface soil samples were collected within close proximity of the above original 15 soil borings.

The soil samples were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) and methyl tert butyl ether (MTBE) by U.S. Environmental Protection Agency (EPA) Method 8260B, naphthalene and polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8310, and TRPH by the Florida Petroleum Residual Organic (FL PRO) Method.

The soil sampling event was performed from February 12 through 14, 2008. The soil analytical results are summarized in Table 1. The soil boring locations are shown on Figure 1. Historical soil analytical results (including the February 2008 data) are presented in Table 1-1 of Attachment 1. The analytical laboratory and data validation reports for the soil sampling event are provided in Attachment 2.

Soil Contamination Evaluation

Based on a comparison of the historical data (shown in Table 1-1 in Attachment 1) to the February 2008 data, the TRPH concentrations in borings B-41, B-137, and B-167 soil samples have not exceeded SCTLs since 2004 or earlier. During the February 2008 sampling event, two samples were collected at different depth intervals from each of these borings.

None of the surface soil samples showed concentrations of site contaminants above the direct exposure industrial SCTLs. Two surface soil samples from boring B-96 and boring D showed slight exceedances for benzo(a)pyrene of 0.45 mg/kg and 0.15 mg/kg, above the direct exposure residential SCTLs. There have been no historic exceedances of the residential SCTLs for benzo(a)pyrene at these two locations. Benzo(a)pyrene is commonly found in surface soils near asphalt pavements, and detections in these soil samples could be attributed to impact from nearby asphalt surfaces. Historically, there have been only 26 detections of benzo(a)pyrene amongst 78 surface soils at the site, out of which only two detections have shown a minor exceedance of the direct exposure residential SCTLs.

The above observations indicate that surface soil contamination is not a significant threat for direct exposure at the site.

The analytical results of subsurface soil samples indicated that TRPH was detected at concentrations that exceeded the FDEP Leachability based on Groundwater (LGW) Criteria in subsurface soil samples from three boring locations (B-41, B-101, B-137, and B-167) at depths of 6 to 8 ft bgs. In addition, total xylenes in boring B-137 exceeded the LGW Criteria. Analyses of TRPH fractions were performed on these four soil samples to determine if the individual fraction concentrations of TRPH were above the respective TPHCWG SCTLs. The results indicated that the concentrations of the individual fractions of TRPH in soil samples from borings B-41, B-137, and B-167 soil samples exceeded LGW Criteria for at least

one TRPH fraction for all three samples, and the individual fractions of TRPH in the soil sample from B-101 were below the LGW criteria.

The elevated TRPH concentrations may be attributed to residual contamination in the smear zone.

Groundwater Monitoring

CH2M HILL conducted quarterly groundwater sampling events on February 8, July 9 and 10, November 6, 2008, and February 3 and 4, 2009. Groundwater samples were collected from five monitoring wells (CEF-043-2N, -4N, -6N, -7N, and -9N) and analyzed for the following parameters: volatile organic compounds (VOCs) by EPA Methods 624 and 8260B, PAHs by EPA Method 8310, lead by EPA Method 6010B, and TRPH by the FL PRO method. The groundwater analytical results are summarized in Table 2. Contaminant detections were compared against the FDEP GCTLs and Natural Attenuation Default Concentrations (NADCs). The historical groundwater analytical results of parameters with exceedances of GCTLs are presented in Table 1-2 of Attachment 1. The analytical laboratory and data validation reports for the groundwater sampling events are provided in Attachment 2. Results of each event are discussed below.

First Quarterly Groundwater Sampling Event

During the first groundwater sampling event (February 2008), benzene, ethylbenzene, and xylenes (total) were detected in well CEF-043-7N at concentrations that exceeded both GCTLs and NADCs. Xylenes (total) were also detected in wells CEF-043-2N and CEF-043-9N at concentrations that exceeded the GCTL. Isopropylbenzene (cumene) was detected at concentrations that exceeded the GCTL in wells CEF-043-2N, -4N, -6N, -7N and -9N and exceeded the NADC in wells CEF-043-6N, -7N and -9N. TRPH was detected at a concentration exceeding the GCTL in well CEF-043-2N. Naphthalene was detected at a concentration exceeding the GCTL in well CEF-043-9N.

Second Quarterly Groundwater Sampling Event

During the second groundwater sampling event (July 2008), benzene, ethylbenzene, and xylenes (total) were detected in well CEF-043-7N at concentrations that exceeded both GCTLs and NADCs. Xylenes (total) were also detected in wells CEF-043-2N and CEF-043-9N at concentrations that exceeded the GCTL. Isopropylbenzene (cumene) was detected at concentrations that exceeded the GCTL in wells CEF-043-2N, -4N, -6N, -7N and -9N and exceeded the NADC in wells CEF-043-6N, -7N and -9N. TRPH was detected at a concentration exceeding the GCTL in wells CEF-043-2N and –9N. Naphthalene was detected at concentrations exceeding the GCTL in wells CEF-043-7N and -9N. Parameters 1-methylnaphthalene and 2-methylnaphthalene were detected at concentrations exceeding the GCTL in well CEF-043-9N.

Third Quarterly Groundwater Sampling Event

During the third groundwater sampling event (November 2008), benzene, ethylbenzene, and xylenes (total) were detected in well CEF-043-7N at concentrations that exceeded both GCTLs and NADCs. Xylenes (total) were also detected in well CEF-043-2N at

concentrations that exceeded the GCTL. Isopropylbenzene (cumene) was detected at concentrations that exceeded the GCTL in wells CEF-043-2N, -4N, -6N, -7N and -9N and exceeded the NADC in wells CEF-043-7N and -9N. Naphthalene was detected at concentrations exceeding the GCTL in well CEF-043-9N.

Methylene chloride was detected in CEF-043-7N at a concentration above the GCTL. Methylene chloride was also detected in the associated method blank. The parameter was also detected in other samples at concentrations below the GCTL over the post-remediation monitoring. However these detections were always associated with the parameter being detected in the method blank. Methylene chloride is a common laboratory introduced contaminant. Therefore, the presence of this parameter is not considered representative of groundwater quality conditions at the site.

Fourth Quarterly Groundwater Sampling Event

During the fourth groundwater sampling event (February 2009), benzene, ethylbenzene, and xylenes (total) were detected in well CEF-043-7N at concentrations that exceeded both the GCTLs and NADCs. Isopropylbenzene (cumene) was detected at concentrations that exceeded the GCTL in wells CEF-043-2N, -4N, -6N, -7N and -9N and exceeded the NADC in wells CEF-043-6N and -7N. TRPH was detected at concentrations exceeding the GCTL in wells CEF-043-2N and –7N. In addition, naphthalene in CEF-043-7N and lead in CEF-043-9N were detected at concentrations exceeding the GCTL.

Dibenz(a,h)anthracene was detected in CEF-043-4N at a concentration above the GCTL. Dibenz(a,h)anthracene was also detected in the method blank and was not detected in other samples during the post-remediation monitoring. Therefore, the presence of this parameter is not considered representative of groundwater contamination at the site.

Groundwater Contamination Evaluation

Groundwater contaminant concentrations overall at the site appear to have attenuated as a result of previous biosparging activities and natural attenuation. Table 2 shows a summary of the analytical results of groundwater sampling during the four quarterly sampling events between February 2008 and February 2009.

In well CEF-043-2N, benzene, toluene, ethylbenzene, total xylenes (BTEX) and lead concentrations are either below the GCTLs or below laboratory detection limits. Concentrations of isopropylbenzene and TRPH are below NADCs.

In well CEF-043-4N, benzene, toluene, ethylbenzene, total xylenes (BTEX), TRPH and lead concentrations are either below the GCTLs or below laboratory detection limits. Concentrations of isopropylbenzene are below NADCs.

In well CEF-043-6N, benzene, toluene, ethylbenzene, total xylenes (BTEX), TRPH and lead concentrations are either below the GCTLs or below laboratory detection limits. Concentrations of isopropylbenzene have dipped closer to GCTLs during the November 2008 sampling event but appear to have rebounded to above the NADC for isopropylbenzene during the February 2009 event, although the exceedance is not

significant. Isopropylbenzene concentrations in the February 2009 event were 16.7 ug/L in comparison with the NADC of 8 ug/L.

In well CEF-043-7N, only toluene and lead concentrations are below the GCTLs. Concentrations of benzene, ethylbenzene, isopropylbenzene, total xylenes and TRPH exceed their respective NADCs.

In well CEF-043-9N, benzene, toluene, ethylbenzene, total xylenes (BTEX) and TRPH concentrations are either below the GCTLs or below laboratory detection limits. The concentration of isopropylbenzene exceeded NADCs during the 1st, 2nd and 3rd quarterly monitoring events but is below NADCs during the 4th quarterly event of February 2009. The concentration of lead exceeded the GCTL during the February 2009 event, after being below laboratory detection limits during previous three sampling events, and appears to be an anomaly. There no other exceedances of the GCTL for lead in any of the other wells sampled at the site.

In summary, site contaminant concentrations in well CEF-043-7N appear to be of most concern at this site. Site contaminant concentrations in all other wells appear to have attenuated to levels below the NADCs.

Conclusions

Soils

During the soil sampling conducted as part of the PARM at the South Fuel Farm site, no surface soil samples showed concentrations of site contaminants above the direct exposure industrial SCTLs. Two surface soil samples from boring B-96 and boring D showed slight exceedances for benzo(a)pyrene of 0.45 mg/kg and 0.15 mg/kg above the direct exposure residential SCTLs. There have been no historic exceedances of the residential SCTLs for benzo(a)pyrene at these two locations. Benzo(a)pyrene is commonly found in surface soil samples as a result of nearby asphalt pavements, and these two low detections could be attributed to impact from nearby asphalt surfaces. Historically, there have been only 26 detections of benzo(a)pyrene amongst 78 surface soils at the site, out of which only two detections have shown a minor exceedance of the direct exposure residential SCTLs.

The above observations indicate that surface soil contamination is not a significant threat for direct exposure at the site.

However, the deeper samples collected just above the observed water table detected elevated TRPH concentrations. The elevated TRPH concentrations may be attributed to residual contamination in the smear zone.

Groundwater

An evaluation of analytical results from the PARM and historical groundwater analytical results indicate that elevated site contaminant concentrations are confined to the vicinity of well CEF-043-7N, and appear to have attenuated to concentrations below their respective NADCs in other wells sampled during the PARM.

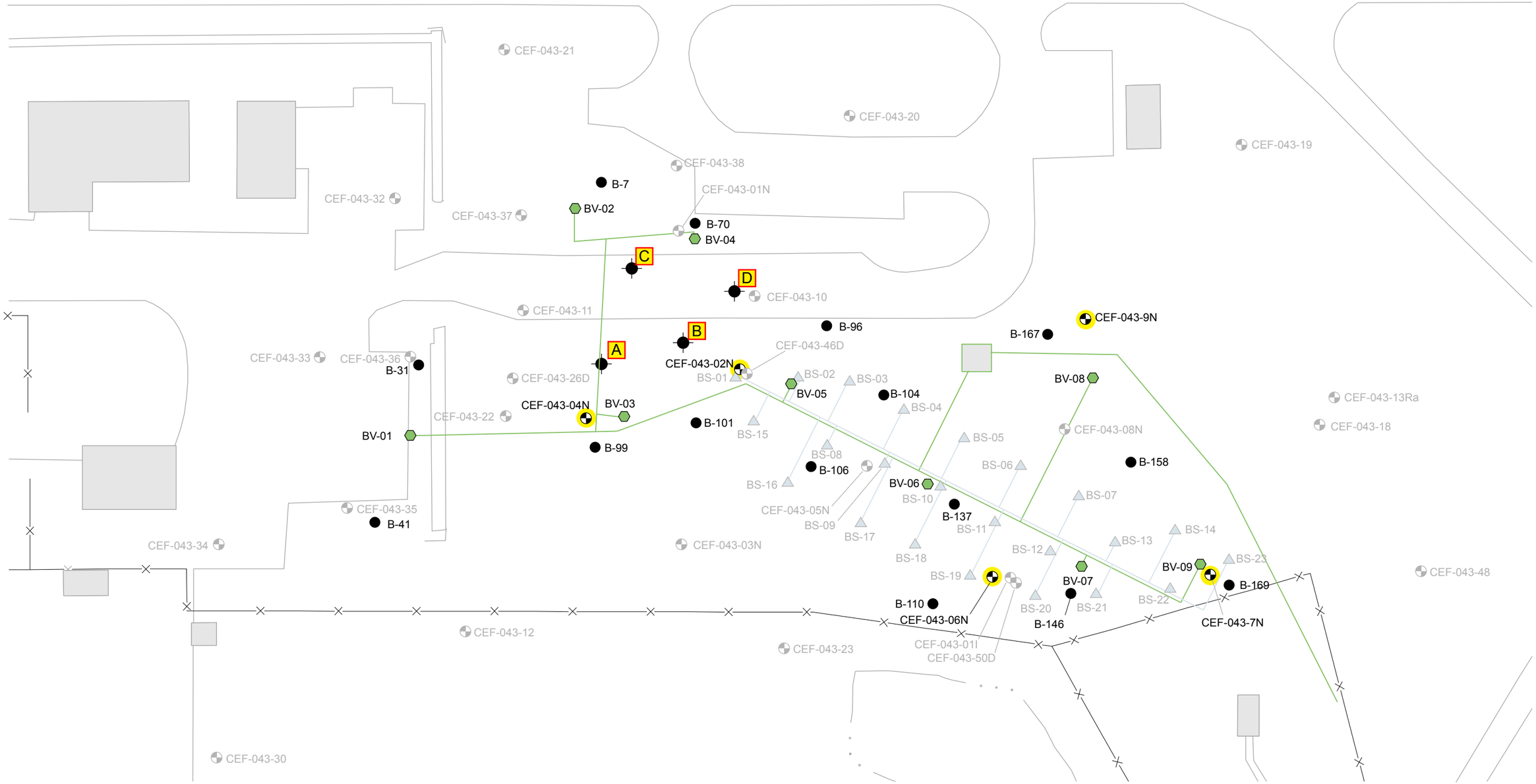
Recommendations

The residual soil contaminant concentrations and a lack of evidence of contaminant rebound in soils at the site do not warrant a restart of the bioventing system. Exceedances of TRPH fractions in deeper subsurface soil samples do not pose a direct exposure threat and generally appear to have had insignificant impact on groundwater contaminant concentrations at the site.

Elevated groundwater contaminant concentrations found in samples from CEF-043-7N need further evaluation and monitoring. Because the exceedances of NADCs for site contaminants are confined only to this single well, a restart of the biosparge system does not appear to be cost-effective.

Concentrations of isopropylbenzene in samples from well CEF-043-9N exceeded NADCs in three quarterly samples during the PARM period and have subsided to below NADC during the last quarter of the PARM. However, additional monitoring for isopropylbenzene may be warranted to ensure concentrations in this well remain below NADCs.

Additional monitoring for BTEX in wells CEF-043-06N, CEF-043-07N and CEF-043-9N is warranted to further evaluate trends in site contaminant concentrations in these wells. Additionally, groundwater monitoring downgradient of well CEF-043-7N may be warranted to ensure that petroleum constituents have not migrated downgradient of this well.



LEGEND

- Monitoring Well Location
- Biovent Well Location
- Biosparging Well Location
- Annual Soil Boring Location
- Supplemental Soil Sample Location

North

0 80 160

Approximate scale in feet

FIGURE 1
Post Active Remediation Monitoring Locations
South Fuel Farm
NAS Cecil Field
Jacksonville, Florida

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TABLE 1
Soil Analytical Results
Post-Active Remediation Monitoring Report
South Fuel Farm Site, Former Naval Air Station Cecil Field
Jacksonville, Florida

StationID	SampleID	Sample Depth	Sample Date	Benzene	Ethylbenzene	Toluene	Xylenes, total	Methyl-t-butyl Ether	Naphthalene	1-methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Indeno(1,2,3-c,d)pyrene	Dibenz(a,h)anthracene	Fluorene	Fluoranthene	Phenanthrene	Pyrene	TRPH	C10-C12 Petroleum Hydrocar	C12-C16 Petroleum Hydrocar	C16-C22 Petroleum Hydrocar	C22-C36 Petroleum Hydrocar	C8-C10 Petroleum Hydrocarb
Leachability to GW Criteria[1]				0.007	0.6	0.5	0.2	0.2	1.2	3.1	8.5	2.1	27	2500	0.8	8	2.4	24	32000	77	6.6	0.7	160	1200	250	880	340	520	1000	3200	25000	340
Direct Exposure Industrial[1]				1.7	9200	60000	700	24000	300	1800	2100	20000	20000	300000	6.6	0.7	6.5	66	52000	640	6.6	0.7	33000	59000	36000	45000	2700	5900	12000	11000	40000	2700
Direct Exposure Residential[1]				1.2	1500	7500	130	4200	55	200	210	2400	1800	21000	1.3	0.1	1.3	13	2500	130	1.3	0.1	2600	3200	2200	2400	460	900	1500	1300	2300	460
				Units in mg/kg																												
B7(1ft)	**86SFF7S080212**	**1**	**2/12/2008**	0.15 U	0.24 U	0.28 U	0.22 U	0.1 U	0.018 U	0.056 U	0.019 U	0.015 U	0.011 U	0.015 U	0.02 U	0.013 U	0.018 U	0.022 U	0.039 U	0.017 U	0.026 U	0.033 U	0.014 U	0.03 U	0.013 U	0.022 U	39	NA	NA	NA	NA	NA
B31(5ft)	**86SFF31S080212**	**5**	**2/12/2008**	0.022 U	0.035 U	0.04 U	0.033 U	0.015 U	0.02 U	0.062 U	0.022 U	0.016 U	0.012 U	0.017 U	0.022 U	0.014 U	0.02 U	0.024 U	0.044 U	0.019 U	0.028 U	0.037 U	0.016 U	0.033 U	0.014 U	0.025 U	10 J	NA	NA	NA	NA	NA
B41(2ft)	**86SFF412S080214**	**2**	**2/14/2008**	0.036 U	0.057 U	0.066 U	0.054 U	0.024 U	0.018 U	0.056 U	0.02 U	0.015 U	0.011 U	0.015 U	0.02 U	0.013 U	0.018 U	0.022 U	0.039 U	0.017 U	0.026 U	0.034 U	0.015 U	0.03 U	0.013 U	0.022 U	11 JB	NA	NA	NA	NA	NA
B41(4ft)	**86SFF416S080214**	**6**	**2/14/2008**	0.28 U	0.45 U	0.52 U	0.42 U	0.19 U	0.019 U	0.059 U	0.021 U	0.016 U	0.012 U	0.016 U	0.022 U	0.014 U	0.019 U	0.023 U	0.042 U	0.018 U	0.027 U	0.036 U	0.016 U	0.032 U	0.014 U	0.024 U	**3600 JB**	1200	2300	16	14 J	70
B70(7ft)	**86SFF70S080212**	**7**	**2/12/2008**	0.021 U	0.033 U	0.038 U	0.031 U	0.014 U	0.019 U	0.057 U	0.02 U	0.015 U	0.011 U	0.016 U	0.021 U	0.013 U	0.018 U	0.022 U	0.04 U	0.018 U	0.026 U	0.034 U	0.015 U	0.031 U	0.013 U	0.023 U	14 J	NA	NA	NA	NA	NA
B96(2ft)	**86SFF962S080213**	**2**	**2/13/2008**	0.028 U	0.044 U	0.05 U	0.041 U	0.019 U	0.017 U	0.052 U	0.018 U	0.014 U	0.018 J	0.014 U	0.26	0.45	0.6	0.37	0.46 J	0.37	0.34 J	0.065 J	0.013 U	0.49 J	0.12 J	0.53	20 J	NA	NA	NA	NA	NA
B96(4ft)	**86SFF964S080213**	**4**	**2/13/2008**	0.026 U	0.041 U	0.047 U	0.038 U	0.017 U	0.017 U	0.054 U	0.019 U	0.014 U	0.01 U	0.015 U	0.02 U	0.012 U	0.017 U	0.021 U	0.038 U	0.017 U	0.025 U	0.032 U	0.014 U	0.029 U	0.012 U	0.021 U	12 J	NA	NA	NA	NA	NA
B99(7ft)	**86SFF99S080212**	**7**	**2/13/2008**	0.023 U	0.037 U	0.043 U	0.035 U	0.016 U	0.018 U	0.056 U	0.02 U	0.015 U	0.011 U	0.015 U	0.02 U	0.013 U	0.018 U	0.022 U	0.04 U	0.023 J	0.026 U	0.034 U	0.015 U	0.03 U	0.013 U	0.022 U	65	NA	NA	NA	NA	NA
B101(2ft)	**86SFF1012S080213**	**2**	**2/13/2008**	0.024 U	0.039 U	0.045 U	0.037 U	0.017 U	0.018 U	0.055 U	0.019 U	0.014 U	0.011 U	0.015 U	0.02 U	0.012 U	0.017 U	0.021 U	0.038 U	0.017 U	0.025 U	0.033 U	0.014 U	0.029 U	0.012 U	0.022 U	65 J	NA	NA	NA	NA	NA
B101(8ft)	**86SFF1018S080213**	**8**	**2/13/2008**	0.03 U	0.048 U	0.055 U	0.045 U	0.02 U	0.019 U	0.058 U	0.02 U	0.015 U	0.011 U	0.016 U	0.021 U	0.013 U	0.018 U	0.023 U	0.041 U	0.018 U	0.027 U	0.035 U	0.015 U	0.031 U	0.013 U	0.023 U	860	0.55 J	240	550	68	3.3
B104(2ft)	**86SFF1042S080213**	**2**	**2/13/2008**	0.026 U	0.041 U	0.047 U	0.038 U	0.017 U	0.017 U	0.054 U	0.019 U	0.014 U	0.01 U	0.015 U	0.02 U	0.012 U	0.017 U	0.021 U	0.038 U	0.017 U	0.025 U	0.032 U	0.014 U	0.029 U	0.012 U	0.021 U	24	NA	NA	NA	NA	NA
B104(4ft)	**86SFF1048S080213**	**8**	**2/13/2008**	0.03 U	0.047 U	0.054 U	0.044 U	0.02 U	0.019 U	0.058 U	0.046 J	0.015 U	0.011 U	0.016 U	0.19	0.041 J	0.19	0.12 J	0.041 U	0.2	0.041 J	0.035 U	0.015 U	0.09 J	0.038 J	0.13 J	33	NA	NA	NA	NA	NA
B106(2ft)	**86SFF1062S080214**	**2**	**2/14/2008**	0.024 U	0.038 U	0.044 U	0.036 U	0.016 U	0.018 U	0.054 U	0.019 U	0.014 U	0.011 U	0.015 U	0.02 U	0.012 U	0.017 U	0.021 U	0.038 U	0.017 U	0.025 U	0.033 U	0.014 U	0.029 U	0.012 U	0.022 U	9 JB	NA	NA	NA	NA	NA
B106(6ft)	**86SFF1066S080214**	**6**	**2/14/2008**	0.024 U	0.038 U	0.044 U	0.036 U	0.016 U	0.018 U	0.056 U	0.02 U	0.015 U	0.011 U	0.015 U	0.02 U	0.013 U	0.018 U	0.022 U	0.04 U	0.018 U	0.026 U	0.034 U	0.015 U	0.03 U	0.013 U	0.022 U	56 JB	NA	NA	NA	NA	NA
B110(7ft)	**86SFF110S080213**	**7**	**2/13/2008**	0.023 U	0.037 U	0.043 U	0.035 U	0.016 U	0.018 U	0.055 U	0.019 U	0.014 U	0.011 U	0.015 U	0.02 U	0.012 U	0.017 U	0.022 U	0.039 U	0.017 U	0.025 U	0.033 U	0.014 U	0.029 U	0.012 U	0.022 U	340	NA	NA	NA	NA	NA
B137(7ft)	**86SFF137S080213**	**7**	**2/13/2008**	0.27 UJ	0.43 UJ	0.49 UJ	1.7 J	0.18 UJ	0.093 U	0.29 U	0.1 U	0.076 U	0.056 U	0.078 U	0.1 U	0.066 U	0.09 U	0.11 U	0.2 U	0.16 J	0.13 U	0.17 U	0.075 U	0.15 U	0.065 U	0.66 J	**24000**	2000	12000	9200	780	200
B146(2ft)	**86SFF1462S080214**	**2**	**2/14/2008**	0.028 U	0.045 U	0.052 U	0.042 U	0.019 U	0.018 U	0.055 U	0.019 U	0.014 U	0.011 U	0.015 U	0.02 U	0.012 U	0.017 U	0.022 U	0.039 U	0.017 U	0.025 U	0.033 U	0.014 U	0.029 U	0.012 U	0.022 U	22 JB	NA	NA	NA	NA	NA
	86SFF1468S080214	**8**	**2/14/2008**	0.024 U	0.039 U	0.044 U	0.036 U	0.016 U	0.021 U	0.064 U	0.022 U	0.017 U	0.012 U	0.017 U	0.023 U	0.014 U	0.02 U	0.025 U	0.045 U	0.02 U	0.029 U	0.038 U	0.017 U	0.034 U	0.014 U	0.025 U	35 JB	NA	NA	NA	NA	NA
B158(3ft)	**86SFF158S080213**	**3**	**2/13/2008**	0.028 U	0.045 U	0.052 U	0.042 U	0.019 U	0.017 U	0.052 U	0.018 U	0.014 U	0.01 U	0.014 U	0.019 U	0.036 J	0.045 J	0.021 U	0.037 U	0.017 J	0.024 U	0.032 U	0.014 U	0.028 U	0.015 J	0.021 U	11 J	NA	NA	NA	NA	NA
B167(2ft)	**86SFF1672S080214**	**2**	**2/14/2008**	0.027 U	0.044 U	0.05 U	0.041 U	0.019 U	0.018 U	0.054 U	0.019 U	0.014 U	0.011 U	0.015 U	0.02 U	0.012 U	0.018 J	0.021 U	0.038 U	0.017 U	0.025 U	0.033 U	0.014 U	0.029 U	0.012 U	0.022 U	10 JB	NA	NA	NA	NA	NA
	86SFF1678S080214	**8**	**2/14/2008**	0.23 U	0.37 U	0.42 U	0.34 U	0.16 U	0.019 U	1.4	1.5	0.016 U	0.012 U	0.016 U	0.021 U	0.014 U	0.019 U	0.023 U	0.042 U	0.018 U	0.027 U	0.036 U	0.015 U	0.032 U	0.013 U	0.024 U	**2900 JB**	1300	1300	8.2 J	13 U	320
B189(5ft)	**86SFF189S080212**	**5**	**2/12/2008**	0.024 U	0.039 U	0.045 U	0.036 U	0.017 U	0.017 U	0.053 U	0.018 U	0.014 U	0.01 U	0.014 U	0.019 U	0.012 U	0.016 U	0.021 U	0.037 U	0.016 U	0.024 U	0.032 U	0.014 U	0.028 U	0.012 U	0.021 U	7.6 J	NA	NA	NA	NA	NA
BoringA(3ft)	**86SFFAS080212**	**3**	**2/12/2008**	0.026 U	0.042 U	0.048 U	0.039 U	0.018 U	0.018 U	0.056 U	0.019 U	0.015 U	0.011 U	0.015 U	0.02 U	0.013 U	0.018 U	0.022 U	0.039 U	0.017 U	0.026 U	0.034 U	0.014 U	0.03 U	0.013 U	0.022 U	12 J	NA	NA	NA	NA	NA
BoringB(7ft)	**86SFFBS080212**	**7**	**2/12/2008**	0.025 U	0.04 U	0.046 U	0.037 U	0.017 U	0.019 U	0.058 U	0.02 U	0.015 U	0.011 U	0.016 U	0.021 U	0.013 U	0.018 U	0.023 U	0.041 U	0.018 U	0.027 U	0.035 U	0.015 U	0.031 U	0.013 U	0.023 U	11 J	NA	NA	NA	NA	NA
BoringC(8ft)	**86SFFCS080214**	**8**	**2/14/2008**	0.028 U	0.045 U	0.052 U	0.042 U	0.019 U	0.018 U	0.057 U	0.02 U	0.015 U	0.011 U	0.015 U	0.021 U	0.046 J	0.049 J	0.022 U	0.04 U	0.047 J	0.026 U	0.034 U	0.015 U	0.03 U	0.013 U	0.023 U	310 JB	NA	NA	NA	NA	NA
BoringD(2ft)	**86SFFDS080214**	**2**	**2/14/2008**	0.027 U	0.043 U	0.049 U	0.04 U	0.018 U	0.018 U	0.054 U	0.019 U	0.014 U	0.011 U	0.058 J	0.27 J	0.15 J	0.24 J	0.12 J	0.067 J	0.24 J	0.07 J	0.032 U	0.014 U	0.37 J	0.2 J	0.28 J	18 JB	NA	NA	NA	NA	NA

Notes:
All concentrations reported in micrograms per kilogram (mg/kg) unless otherwise noted.
1 = Ch 62-777 F.A.C Soil Cleanup Target Level (SCTLs) reported in mg/kg
U - The analyte was analyzed for, but not detected.
J - Result is estimated
B- The analyte was detected in the associated method and/or calibration blank.
UJ- Value non-detected estimated.
JB- Estimate value. The analyte was detected in the associated method and/or calibration blank.
Bold values indicates concentration exceeds Industrial Direct Exposure Limit
Grey-shaded values indicate compounds that exceed Leachability based on Groundwater Criteria
Blue-shaded values indicate compounds that exceed Leachability based on Groundwater Criteria
Bold and Shaded values indicate compounds that exceed both SCTL and Leachability based on Groundwater Criteria
NA - Not Analyzed

TABLE 2
Groundwater Analytical Results
Post-Active Remediation Monitoring Report
South Fuel Farm
Former Naval Air Station Cecil Field
Jacksonville, Florida

Parameter	StationID		CEF-043-2N				CEF-043-4N				CEF-043-6N			
	SampleID		86SFF2NWQ108	86SFF2NWQ208	86SFF2NWQ308	86SFF2NWQ109	86SFF4NWQ108	86SFF4NWQ208	86SFF4NWQ308	86SFF4NWQ109	86SFF6NWQ108	86SFF6NWQ208	86SFF6NWQ308	86SFF6NWQ109
	Sample Date		2/22/2008	7/10/2008	11/6/2008	2/4/2009	2/22/2008	7/10/2008	11/6/2008	2/3/2009	2/22/2008	7/10/2008	11/6/2008	2/3/2009
	GCTL[1]	NADC												
VOCs	Units in ug/L						ug/L				Units in ug/L			
1,2,3-trichlorobenzene	70	700	1 U	1 UJ	1 UJ	NA	1 U	1 UJ	1 UJ	NA	1 U	1 UJ	1 UJ	NA
1,2,4-Trichlorobenzene	70	700	1 U	1 U	1 U	NA	1 U	1 U	1 UJ	NA	1.1	2.3	0.22 B	NA
Acetone	6300	63000	3.3 JB	5.8 JB	2 J	NA	9 JB	6 JB	4.3 J	NA	2.9 JB	10 U	6 J	NA
Benzene	1	100	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.16 J	0.45 J	0.17 J	0.59 J
Chlorobenzene	100	1000	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA
Chloromethane	2.7	270	2 U	0.35 JB	2 U	NA	2 U	2 U	2 UJ	NA	2 U	2 U	2 U	NA
Ethylbenzene	30	300	23	28	14	21	1 U	1 U	0.2 J	0.12 J	2.4	2.1	0.31 J	2.7
Isopropylbenzene (Cumene)	0.8	8	**3.4**	**2.6**	**2.3**	**4.3***	**1.4**	**2**	**0.83**	**1.5***	**10**	**10**	**0.83**	**16.7**
Methyl isobutyl ketone (4-methyl-2-pentanone)	560	5600	2.1 J	5 U	5 U	NA	5 UJ	5 U	5 U	NA	5 UJ	5 U	5 U	NA
Methylene chloride	5	500	2 U	0.45 JB	2 U	NA	2 U	0.35 JB	2 UJ	NA	2 U	0.25 JB	1.6 JB	NA
Styrene	100	1000	1 U	1 U	0.28 J	NA	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA
Toluene	40	400	0.39 JB	7.4 JB	0.77 J	0.47 J	1 U	1 U	0.23 J	1 U	1 U	1 U	0.11 J	1 U
Xylenes, total	20	200	**26**	**60**	**13**	7.5	1 U	1 U	0.32 J	1 U	1 U	1 U	0.28 J	0.54 J
PAHs														
1-methylnaphthalene	28	280	3.7 J	3.1 JB	0.1	2.4 JB	0.049 U	0.44 JB	0.12	0.48 JB	0.4	1.8 JB	0.11	0.31 JB
2-Methylnaphthalene	28	280	5.3 J	5.5 JB	0.094 U	2.5 JB	0.049 U	0.58 JB	0.071 J	0.49 JB	0.78	2.4 JB	0.16	0.54 JB
Acenaphthene	20	200	0.049 U	0.047 U	0.094 U	0.092 U	0.26 J	1.5	0.27	1.4 JB	0.053	0.12	0.094 U	0.033 JB
Acenaphthylene	210	2100	0.049 U	0.047 U	0.21 J	0.21	0.049 U	0.047 U	0.094 U	0.092 U	0.049 U	0.047 U	0.094 U	0.092 U
Benzo(a)pyrene	0.2	20	0.049 UJ	0.047 U	0.094 U	0.046 U	0.049 U	0.047 U	0.094 U	0.046 U	0.049 U	0.047 U	0.094 U	0.046 U
Benzo(b)fluoranthene	0.05	5	0.049 UJ	0.047 U	0.047 U	0.046 U	0.049 U	0.047 U	0.047 U	0.016 JB	0.049 U	0.047 U	0.047 U	0.046 U
Benzo(g,h,i)perylene	210	2100	0.049 UJ	0.047 U	0.094 UJ	0.092 U	0.022 J	0.047 U	0.094 UJ	0.012 JB	0.049 U	0.047 U	0.094 UJ	0.092 U
Benzo(k)fluoranthene	0.5	50	0.049 UJ	0.047 U	0.094 U	0.046 U	0.049 U	0.047 U	0.094 U	0.0084 JB	0.049 U	0.047 U	0.094 U	0.046 U
Dibenz(a,h)anthracene	0.005	0.5	**0.049 UJ**	**0.047 U**	**0.047 U**	**0.018 U**	**0.049 U**	**0.047 U**	**0.047 U**	**0.012 B**	**0.049 U**	**0.047 U**	**0.047 U**	**0.018 U**
Fluoranthene	280	2800	0.049 U	0.047 U	0.094 U	0.092 U	0.049 U	0.047 U	0.094 U	0.078 JB	0.049 U	0.047 U	0.094 U	0.092 U
Fluorene	280	2800	0.049 U	0.047 U	0.094 U	0.092 U	0.049 U	0.52	0.094 U	0.68 JB	0.075	0.047 U	0.034 J	0.092 U
Indeno(1,2,3-c,d)pyrene	0.05	5	0.049 UJ	0.047 U	0.047 U	0.046 U	0.049 U	0.047 U	0.047 U	0.011 B	0.049 U	0.047 U	0.047 U	0.046 U
Naphthalene	14**	140	5.5 JB	13 JB	1.7 JB	12 JB	0.049 U	0.44 JB	0.094 U	0.52 JB	0.049 U	0.41 JB	0.094 U	0.092 U
Phenanthrene	210	2100	0.049 U	0.047 U	0.094 U	0.092 U	0.049 U	0.047 U	0.094 U	0.35 JB	0.094	0.14	0.052 J	0.038 JB
Pyrene	210	2100	0.049 U	0.047 U	0.094 U	0.092 U	0.049 U	0.12	0.082 J	0.12 JB	0.04 J	0.047 U	0.094 U	0.092 U
Petroleum Range Organics	5000	50000	**9300 JB**	**8300**	3000 J	**9300**	2900 JB	3700 J	750 J	2600	3100 JB	4500	480 J	1400
Lead	15	150	2.2 J	2.9 J	4.1	5.7 B	2.6 J	2.6 J	3 U	1.7 J	11.7	9.1	12.1	7.4

Notes:
All concentrations reported in micrograms per liter (ug/L).
GCTL - Groundwater Cleanup Target Level
NADC - Natural Attenuation Default Concentration
1 = Ch 62-777 FAC Groundwater Cleanup Target Levels (GCTLs) reported in µg/L
U - The analyte was analyzed for , but not detected.
J - Result is estimated
JB- Estimate value..The analyte was detected in the associated method and/or calibration blank.
Bold indicates concentration exceeds Groundwater Target Cleanup Level
Shade indicates concentration exceeds Natural Attenuation Default Concentration
NA-Not Analyzed
** - As provided in Chapter 62-302, F.A.C.
*-Data was not validated.

TABLE 2
Groundwater Analytical Results
Post-Active Remediation Monitoring Report
South Fuel Farm
Former Naval Air Station Cecil Field
Jacksonville, Florida

Parameter	StationID		CEF-043-7N				CEF-043-9N			
	SampleID		86SFF7NWQ108	86SFF7NWQ208	86SFF7NWQ308	86SFF7NWQ109	86SFF9NWQ108	86SFF9NWQ208	86SFF9NWQ308	86SFF9NWQ109
	Sample Date		2/22/2008	7/9/2008	11/6/2008	2/3/2009	2/22/2008	7/9/2008	11/6/2008	2/4/2009
	GCTL[1]	NADC								
VOCs			Units in ug/L				Units in ug/L			
1,2,3-trichlorobenzene	70	700	1 U	2.3 U	1 UJ	NAF	1 U	1 U	0.18 J	NA
1,2,4-Trichlorobenzene	70	700	1 U	2.3 U	1 U	NAF	2.4	1.6	0.69 B	NA
Acetone	6300	63000	10 UJ	1500 J	10 UJ	NAF	7.7 JB	6.9 J	10 UJ	NA
Benzene	1	100	**200**	**220 J**	**39**	**190**	1 U	1 U	1 U	1 U
Chlorobenzene	100	1000	1 U	0.4 U	1 U	NAF	1 U	0.14 J	1 U	NA
Chloromethane	2.7	270	2 U	1.1 U	2 U	NA	2 U	0.41 J	2 U	NA
Ethylbenzene	30	300	**230**	**360 J**	**74**	**520**	11	16	9.5	6.6
Isopropylbenzene (Cumene)	0.8	8	**98**	**150 J**	**29**	**230***	**8.8**	**10**	**8.8**	**6.1***
Methyl isobutyl ketone (4-methyl-2-pentanone)	560	5600	0.94 J	1.4 U	5 U	NA	5 UJ	5 U	5 U	NA
Methylene chloride	5	500	2 U	**10 JB**	2 U	NA	2 U	1 JB	2 U	NA
Styrene	100	1000	1 U	0.36 U	3.2	NA	1 U	1 U	1 U	NA
Toluene	40	400	15 JB	15 J	6.6	21	1 U	1 U	1 U	1 U
Xylenes, total	20	200	**1400**	**1800 J**	**290**	**2600 J**	**29**	**52**	20	15
PAHs										
1-methylnaphthalene	28	280	0.87	8.2 J	0.094 U	12 JB	10 J	**29**	23	15 JB
2-Methylnaphthalene	28	280	1.1	11 J	0.094 U	17 JB	16 J	**46**	22	18 JB
Acenaphthene	20	200	0.047 U	0.06 J	0.094 U	0.096 U	0.049 U	0.047 U	0.1 U	0.092 U
Acenaphthylene	210	2100	0.062	0.047 U	0.094 U	0.096 U	0.049 U	0.047 U	0.1 U	0.38
Benzo(a)pyrene	0.2	20	0.047 U	0.047 U	0.094 U	0.0064 JB	0.049 U	0.047 U	0.1 U	0.046 U
Benzo(b)fluoranthene	0.05	5	0.047 U	0.047 U	0.047 U	0.048 U	0.049 U	0.047 U	0.05 U	0.046 U
Benzo(g,h,i)perylene	210	2100	0.047 U	0.047 U	0.094 UJ	0.096 U	0.049 U	0.047 U	0.1 UJ	0.092 U
Benzo(k)fluoranthene	0.5	50	0.047 U	0.047 U	0.094 U	0.0093 J	0.049 U	0.047 U	0.1 U	0.046 U
Dibenz(a,h)anthracene	0.005	0.5	**0.047 U**	**0.047 U**	**0.047 U**	**0.019 U**	**0.049 U**	**0.047 U**	0.05 U	**0.018 U**
Fluoranthene	280	2800	0.047 U	0.047 U	0.094 U	0.016 JB	0.049 U	0.047 U	0.1 U	0.022 JB
Fluorene	280	2800	0.047 U	0.047 U	0.094 U	0.096 U	0.049 U	0.5 J	0.1 U	0.15 JB
Indeno(1,2,3-c,d)pyrene	0.05	5	0.047 U	0.047 U	0.047 U	0.048 U	0.049 U	0.047 U	0.05 U	0.046 U
Naphthalene	14**	140	6 JB	**37 J**	0.025 JB	**42 JB**	**20 JB**	**42**	**26 JB**	14 JB
Phenanthrene	210	2100	0.047 U	0.047 U	0.094 U	0.096 U	0.049 U	0.047 U	0.1 U	0.092 U
Pyrene	210	2100	0.047 U	0.047 U	0.094 U	0.016 JB	0.049 U	0.047 U	0.1 U	0.016 JB
Petroleum Range Organics	5000	50000	2900 JB	4400 J	460 UJ	**6000**	2600 JB	**7600**	1800 J	2700
Lead	15	150	2.2 J	3.2	2.4 J	2.8 J	3 U	3 U	3 U	**21.1 B**

Notes:
All concentrations reported in micrograms per liter (ug/L).
GCTL - Groundwater Cleanup Target Level
NADC - Natural Attenuation Default Concentration
1 = Ch 62-777 FAC Groundwater Cleanup Target Levels (GCTLs) re
U - The analyte was analyzed for , but not detected.
J - Result is estimated
JB- Estimate value..The analyte was detected in the associated me
Bold indicates concentration exceeds Groundwater Target Cleanup
Shade indicates concentration exceeds Natural Attenuation Default
NA-Not Analyzed
** - As provided in Chapter 62-302, F.A.C.
*-Data was not validated.

Attachment 1
Historical Soil and Groundwater Analytical Results

TABLE 1-1 Historical Soil Analytical Results

South Fuel Farm Site, NAS Cecil Field, Jacksonville, FL

Soil Boring Number	Sample Date	Sample Depth (feet bls)	Benzene	Ethyl Benzene	Toluene	Xylene	Methyl tert-butyl ether	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (g,h,i) perylene	Chrysene	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Fluorene	Fluoranthene	Phenanthrene	Pyrene	TRPH (mg/kg)	C10-C12 Petroleum Hydrocarbons	C12-C16 Petroleum Hydrocarbons	C16-C22 Petroleum Hydrocarbons	C22-C36 Petroleum Hydrocarbons	C8-C10 Petroleum Hydrocarbons
Leachability to GW Criteria[1]			0.007	0.6	0.5	0.2	0.09	1.2	2.2	6.1	2.1	27	2500	0.8	8	2.4	25	32000	77	6.6	0.7	160	1200	250	880	340	520	1000	3200	25000	340
Direct Exposure Industrial[1]			1.7	9200	60000	700	24000	300	1800	2100	20000	20000	300000	6.6	0.7	6.5	66	52000	640	6.6	0.7	33000	59000	36000	45000	2700	5900	12000	11000	40000	2700
Direct Exposure Residential[1]			1.2	1500	7500	130	4200	55	200	210	2400	1800	21000	1.3	0.1	1.3	13	2500	130	1.3	0.1	2600	3200	2200	2400	460	900	1500	1300	2300	460
B-7	3/22/99	N/A	0.11 U	0.11 U	0.11 U	0.33 U	0.64 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	84	NA	NA	NA	NA	NA
	9/13/00	N/A	0.001 U	0.001 U	0.001 U	0.003 U	0.002 U	0.018 U	0.037 U	0.037 U	0.019 U	0.037 U	0.0018 U	0.0018 U	0.002 U	0.0037 U	0.0018 U	0.003 U	0.0018 U	0.0018 U	0.0036 U	0.003 U	0.0037 U	0.037 U	0.0018 U	8	NA	NA	NA	NA	NA
	10/18/01	2	0.001 U	0.001 U	0.001 U	0.0031 U	0.001 U	0.597 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	18 U	NA	NA	NA	NA	NA
	10/10/02	2	0.00102 J	0.00141 J	0.00325 J	0.0119	0.00589 U	0.00884 U	0.0177 U	0.0177 U	0.00353 U	0.0353 U	0.0177 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.0177 U	0.00353 U	0.00353 U	0.00353 U	9.42 U	NA	NA	NA	NA	NA
	11/5/03	2	0.00486 U	0.00486 U	0.00486 U	0.00971 U	0.00486 U	0.00966 U	0.0387 U	0.0387 U	0.0387 U	0.0387 U	0.00384 U	0.00384 U	0.00384 U	0.00384 U	0.00384 U	0.00384 U	0.00384 U	0.00966 U	0.00384 U	0.0194 U	0.00384 U	0.00384 U	0.00384 U	127	NA	NA	NA	NA	NA
	12/7/04	2	0.00504 U	0.00504 U	0.00504 U	0.0101 U	0.00504 U	0.00914 U	0.0367 U	0.0367 U	0.0367 U	0.0367 U	0.00363 U	0.00363 U	0.00363 U	0.00363 U	0.00363 U	0.00363 U	0.00363 U	0.00914 U	0.00363 U	0.0184 U	0.00363 U	0.00363 U	0.00363 U	35 JB	NA	NA	NA	NA	NA
	12/1/2005	2	0.00493 U	0.00493 U	0.00493 U	0.00986 U	0.00493 U	0.00933 U	0.0374 U	0.0374 U	0.0374 U	0.0374 U	0.00371 U	0.00371 U	0.00371 U	0.00371 U	0.00371 U	0.00371 U	0.00371 U	0.00933 U	0.00371 U	0.0188 U	0.00371 U	0.00371 U	0.00371 U	8.99 UJ	NA	NA	NA	NA	NA
	2/12/2008	1	0.15 U	0.24 U	0.28 U	0.22 U	0.1 U	0.018 U	0.056 U	0.019 U	0.015 U	0.011 U	0.015 U	0.02 U	0.013 U	0.018 U	0.022 U	0.039 U	0.017 U	0.026 U	0.033 U	0.014 U	0.03 U	0.013 U	0.022 U	39	NA	NA	NA	NA	NA
B-31	3/22/99	N/A	0.012 U	0.012 U	0.012 U	0.036 U	0.071 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	170	NA	NA	NA	NA	NA
	9/13/00	N/A	0.0011 U	0.0011 U	0.0011 U	0.0031 U	0.002 U	0.02 U	0.04 U	0.04 U	0.02 U	0.04 U	0.002 U	0.002 U	0.002	0.004 U	0.002 U	0.01	0.002 U	0.0028	0.01	0.004 U	0.004 U	0.04 U	0.002 U	180	NA	NA	NA	NA	NA
	10/18/01	4	0.0011 U	0.0011 U	0.0011 U	0.0033 U	0.0011 U	0.604 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	18 U	NA	NA	NA	NA	NA
	10/10/02	3	0.225 U	0.225 U	0.0506 J	0.45 U	0.225 U	0.00863 U	0.0173 U	0.0173 U	0.00345 U	0.0345 U	0.0173 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.0173 U	0.0116	0.00345 U	0.00345 U	8.38 J	NA	NA	NA	NA	NA
	11/5/03	2	0.00518 U	0.00518 U	0.00518 U	0.0104 U	0.00518 U	0.00935 U	0.0375 U	0.0375 U	0.0375 U	0.0375 U	0.00372 U	0.00372 U	0.00372 U	0.00372 U	0.00372 U	0.00372 U	0.00372 U	0.00935 U	0.00372 U	0.0188 U	0.00372 U	0.00372 U	0.00372 U	9.01 U	NA	NA	NA	NA	NA
	12/7/04	2	0.461 U	1.04	0.278 J	6.81	0.461 U	1.2	4.18	3.49	0.392 U	0.392 U	0.0389 U	0.0389 U	0.0389 U	0.0389 U	0.0389 U	0.0389 U	0.0389 U	0.0978 U	0.0389 U	0.0531 J	0.0389 U	0.0389 U	0.0389 U	1440 JB	NA	NA	NA	NA	NA
	12/1/2005	2	0.00517 U	0.00517 U	0.00517 U	0.0103 U	0.00517 U	0.0216 J	0.0359 U	0.0359 U	0.0232 J	0.0359 U	0.00356 U	0.00356 U	0.00356 U	0.0199 J	0.00356 U	0.00356 U	0.00356 U	0.00896 U	0.00356 U	0.018 U	0.00356 U	0.00356 U	0.00356 U	10.7 JB	NA	NA	NA	NA	NA
	2/12/2008	5	0.022 U	0.035 U	0.04 U	0.033 U	0.015 U	0.02 U	0.062 U	0.022 U	0.016 U	0.012 U	0.017 U	0.022 U	0.014 U	0.02 U	0.024 U	0.044 U	0.019 U	0.028 U	0.037 U	0.016 U	0.033 U	0.014 U	0.025 U	10 J	NA	NA	NA	NA	NA
B-41	3/22/99	N/A	0.013 U	0.013 U	0.013 U	0.038 U	0.076 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	30	NA	NA	NA	NA	NA
	9/13/00	N/A	0.55 U	0.55 U	0.55 U	24.9	1.1 U	3.3	22	14	1 U	2 U	0.098 U	0.098 U	0.099 U	0.2 U	0.098 U	0.2 U	0.098 U	0.098 U	0.19 U	0.21	0.88	0.2 U	0.098 U	460	NA	NA	NA	NA	NA
	10/18/01	4	0.0011 U	0.0011 U	0.0011 U	0.0033 U	0.0011 U	0.579 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	17 U	NA	NA	NA	NA	NA
	10/10/02	4	0.219 U	0.219 U	0.219 U	0.437 U	0.219 U	0.00859 U	0.0172 U	0.0172 U	0.00344 U	0.0344 U	0.0172 U	0.00344 U	0.00344 U	0.00344 U	0.00344 U	0.00344 U	0.00344 U	0.00344 U	0.00344 U	0.0172 U	0.00344 U	0.00344 U	0.00344 U	1640	NA	NA	NA	NA	NA
	11/5/03	4	0.212 U	0.212 U	0.212 U	1.56	0.212 U	0.00984 U	0.066	0.0395 U	0.0395 U	0.0395 U	0.00391 U	0.00391 U	0.00146 J	0.00147 J	0.00391 U	0.00391 U	0.00391 U	0.00984 U	0.00391 U	0.0198 U	0.00391 U	0.00391 U	0.00391 U	**10400**	NA	NA	NA	NA	NA
	12/7/04	4	0.242 U	0.242 U	0.242 U	0.484 U	0.242 U	0.0145	0.0628	0.0394 U	0.0394 U	0.0394 U	0.0039 U	0.0443	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.00981 U	0.0039 U	0.0197 U	0.0256	0.0039 U	0.0717	**3200 JB**	NA	NA	NA	NA	NA
	12/1/2005	4	0.23 U	0.23 U	0.23 U	0.459 U	0.23 U	0.112 J	1.75 J	1.38 J	0.189 U	0.0322 J	0.0187 U	0.0187 U	0.0187 U	0.0187 U	0.0187 U	0.0187 U	0.0187 U	0.0471 U	0.0187 U	0.0592 J	0.0415 J	0.117 J	0.0372 J	1970 JB	504.927 JB	1130.903 JB	26.691 JB	11.221 JB	43.644 JB
	2/14/2008	2	0.036 U	0.057 U	0.066 U	0.054 U	0.024 U	0.018 U	0.056 U	0.02 U	0.015 U	0.011 U	0.015 U	0.02 U	0.013 U	0.018 U	0.022 U	0.039 U	0.017 U	0.026 U	0.034 U	0.015 U	0.03 U	0.013 U	0.022 U	11 JB	NA	NA	NA	NA	NA
	2/14/2008	6	0.28 U	0.45 U	0.52 U	0.42 U	0.19 U	0.019 U	0.059 U	0.021 U	0.016 U	0.012 U	0.016 U	0.022 U	0.014 U	0.019 U	0.023 U	0.042 U	0.018 U	0.027 U	0.036 U	0.016 U	0.032 U	0.014 U	0.024 U	**3600 JB**	1200	2300	16	14 J	70
B-70	3/22/99	N/A	0.13 U	0.13 U	0.13 U	0.4 U	0.8 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	830	NA	NA	NA	NA	NA
	9/13/00	N/A	0.0014	0.001 U	0.002	0.019	0.002 U	0.02 U1	0.041 U	0.041 U	0.094	0.109	0.002 U1	0.016	0.005	0.014	0.012	0.004 U	0.043	0.0025	0.004 U	0.004 U	0.091	0.041 U	0.148	100	NA	NA	NA	NA	NA
	10/18/01	4	0.001 2 U	0.001 2 U	0.001 2 U	0.0036 U	0.001 2 U	0.565 U	0.056 U	0.035 J	0.056 U	0.056 U	0.056 U	0.0053J	0.007J	0.015J	0.056 U	0.016J	0.008J	0.010J	0.056 U	0.056 U	0.056 U	0.0049 J	0.0057J	64	NA	NA	NA	NA	NA
	10/10/02	4	0.00141 J	0.00104 J	0.00337 J	0.0102	0.00495 U	0.151 J	0.0161 U	0.0161 U	0.00614 J	0.0322 U	0.0161 U	0.0554 J	0.0847 J	0.0795 J	0.0747 J	0.0746 J	0.0952 J	0.0588 J	0.0616 J	0.0161 U	0.168 J	0.0222 J	0.0621 J	114 J	NA	NA	NA	NA	NA
	11/5/03	4	0.00547	0.00136 J	0.0175 B	0.0164	0.00496 U	1.97	7.77	9.7	0.738 U	0.738 U	0.0731 U	0.0731 U	0.0731 U	0.0731 U	0.0731 U	0.0731 U	0.0731 U	0.184 U	0.0731 U	0.37 U	0.0731 U	0.0731 U	0.134	93.5	NA	NA	NA	NA	NA
	12/7/04	4	0.00465 U	0.00465 U	0.00465 U	0.00929 U	0.00465 U	0.00853 U	0.0342 U	0.0342 U	0.0342 U	0.0342 U	0.00339 U	0.00339 U	0.00339 U	0.00339 U	0.00339 U	0.00339 U	0.00339 U	0.00853 U	0.00339 U	0.0172 U	0.00339 U	0.00339 U	0.00339 U	9.33 JB	NA	NA	NA	NA	NA
	12/1/2005	4	0.00263 J	0.00123 J	0.00451 J	0.00569 J	0.00529 U	0.0873 U	0.35 U	0.35 U	0.35 U	0.35 U	0.019 J	0.257 J	**0.705**	0.797	0.244 J	0.522 J	0.477 J	0.726 J	0.545	0.0948 J	0.475 J	0.149 J	0.415 J	22.8 JB	NA	NA	NA	NA	NA
	2/12/2008	7	0.021 U	0.033 U	0.038 U	0.031 U	0.014 U	0.019 U	0.057 U	0.02 U	0.015 U	0.011 U	0.016 U	0.021 U	0.013 U	0.018 U	0.022 U	0.04 U	0.018 U	0.026 U	0.034 U	0.015 U	0.031 U	0.013 U	0.023 U	14 J	NA	NA	NA	NA	NA
B-96	3/22/99	N/A	0.1 U	0.25	0.1 U	5.8	0.63 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7600**	NA	NA	NA	NA	NA
	9/13/00	N/A	0.22 U	0.22 U	0.22 U	0.65 U	0.43 U	0.074	0.48	0.58	0.032	0.058	0.039	0.015	0.012	0.02	0.011	0.005	0.021	0.0063	0.0087	0.11	0.004 U	0.26	0.002 U	1800	NA	NA	NA	NA	NA
	10/18/01	4	0.024	0.017	0.0017	0.0141	0.001 U4	0.562	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.016	0.056 U	0.033	0.015	0.016	0.018	0.014	0.056 U	0.056 U	0.056 U	0.056 U	0.128	969	NA	NA	NA	NA	NA
	10/10/02	4	0.269 U	0.269 U	0.269 U	0.538 U	0.269 U	0.0404 U	0.0807 U	0.0807 U	0.0161 U	0.161 U	0.0807 U	0.0161 U	0.0161 U	0.0161 U	0.0161 U	0.0161 U	0.0161 U	0.0161 U	0.0161 U	0.0807 U	0.0274 J	0.0161 U	0.142 J	**2710 J**	NA	NA	NA	NA	NA
	11/5/03	4	0.00517 U	0.00188 J	0.0013 B	0.00894 J	0.00517 U	0.135	0.0382 U	0.0382 U	0.0382 U	0.0382 U	0.00378 U	0.00378 U	0.00378 U	0.00378 U	0.00378 U	0.00378 U	0.00378 U	0.00952 U	0.00378 U	0.0191 U	0.00378 U	0.0259	0.00378 U	**4860**	NA	NA	NA	NA	NA
	12/7/04	4	0.216 U	0.216 U	0.216 U	0.433 U	0.216 U	8.19 J	15.5 J	24.5 J	0.339 U	0.772 J	0.0336 U	0.0336 U	0.0336 U	0.0336 U	0.0336 U	0.0336 U	0.0336 U	0.0846 U	0.0336 U	0.649 J	0.0336 U	0.0336 U	0.455 J	**59600 JB**	NA	NA	NA	NA	NA
	12/1/2005	4	0.249 U	0.249 U	0.249 U	0.498 U	0.249 U	0.017 U	0.0682 U	0.0682 U	0.0682 U	0.0682 U	0.00676 U	0.00676 U	0.00676 U	0.00676 U	0.00676 U	0.00676 U	0.00676 U	0.017 U	0.00676 U	0.0342 U	0.00676 U	0.00676 U	0.00676 U	8.3 UJ	NA	NA	NA	NA	NA
	2/13/2008	2	0.028 U	0.044 U	0.05 U	0.041 U	0.019 U	0.017 U	0.052 U	0.018 U	0.014 U	0.018 J	0.014 U	0.26	0.45	0.6	0.37	0.46 J	0.37	0.34 J	0.065 J	0.013 U	0.49 J	0.12 J	0.53	20 J	NA	NA	NA	NA	NA
	2/13/2008	4	0.026 U	0.041 U	0.047 U	0.038 U	0.017 U	0.017 U	0.054 U	0.019 U	0.014 U	0.01 U	0.015 U	0.02 U	0.012 U	0.017 U	0.021 U	0.038 U	0.017 U	0.025 U	0.032 U	0.014 U	0.029 U	0.012 U	0.021 U	12 J	NA	NA	NA	NA	NA
B-99	3/22/99	N/A	0.11 U	0.11 U	0.11 U	0.33 U	0.67 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	570	NA	NA	NA	NA	NA
	9/13/00	N/A	0.001	0.001 U	0.0018	0.0017	0.002 U	0.02 U	0.04 U	0.073	0.14	0.04 U	0.004	0.0076	0.016	0.025	0.0057	0.024	0.02	0.013	0.019	0.004 U	0.052	0.04 U	0.028	8.1 U	NA	NA	NA	NA	NA
	10/18/01	4	0.001 2 U	0.001 2 U	0.001 2 U	0.0035 U	0.001 2 U	0.593 U	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U	0.027J	0.032J	0.040J	0.017J	0.029J	0.040J	0.024J	0.059 U	0.059 U	0.046J	0.024J	0.015J	36	NA	NA	NA	NA	NA
	10/10/02	4	0.00157 J	0.00156 J	0.00516	0.0154	0.00482 U	0.0235 J	0.0171 U	0.0171 U	0.009 J	0.0342 U	0.0171 U	0.165 J	0.0713 J	0.0805 J	0.0357 J	0.0418 J	0.117 J	0.0351 J	0.00342 U	0.0171 U	0.223 J	0.0396 J	0.147 J	33.7 J	NA	NA	NA	NA	NA
	11/5/03	4	0.00517 U	0.00188 J	0.0013 B	0.00894 J	0.00517 U	0.135	0.0382 U	0.0382 U	0.0382 U	0.0382 U	0.00378 U	0.00378 U	0.00378 U	0.00378 U	0.00378 U	0.00378 U	0.00378 U	0.00952 U	0.00378 U	0.0191 U	0.00378 U	0.0259	0.00378 U	**4860**	NA	NA	NA	NA	NA
	12/7/04	4	0.235 U	0.235 U	0.235 U	0.47 U	0.235 U	0.00887 U	0.0356 U	0.0356 U	0.0356 U	0.0356 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.071	0.00353 U	0.00887 U	0.0325	0.0179 U	0.00353 U	0.00353 U	0.00353 U	20 JB	NA	NA	NA	NA	NA
	12/1/2005	4	0.00439 U	0.00439 U	0.00439 U	0.00879 U	0.00439 U	0.0376 J	0.0287 J	0.0385 U	0.0385 U	0.0385 U	0.00381 U	0.00381 U	0.00735	0.00381 U	0.00381 U	0.179 J	0.00935	0.0517 J	0.00381 U	0.0193 U	0.00381 U	0.00768	0.00381 U	43.9 JB	NA	NA	NA	NA	NA
	2/12/2008	7	0.023 U	0.037 U	0.043 U	0.035 U	0.016 U	0.018 U	0.056 U	0.02 U	0.015 U	0.011 U	0.015 U	0.02 U	0.013 U	0.018 U	0.022 U	0.04 U	0.023 J	0.026 U	0.034 U	0.015 U	0.03 U	0.013 U	0.022 U	65	NA	NA	NA	NA	NA

TABLE 1-1 Historical Soil Analytical Results

South Fuel Farm Site, NAS Cecil Field, Jacksonville, FL

Soil Boring Number	Sample Date	Sample Depth (feet bls)	Benzene	Ethyl Benzene	Toluene	Xylene	Methyl tert-butyl ether	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (g,h,i) perylene	Chrysene	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Fluorene	Fluoranthene	Phenanthrene	Pyrene	TRPH (mg/kg)	C10-C12 Petroleum Hydrocarbons	C12-C16 Petroleum Hydrocarbons	C16-C22 Petroleum Hydrocarbons	C22-C36 Petroleum Hydrocarbons	C8-C10 Petroleum Hydrocarbons
B-101	3/22/99	N/A	0.12 U	0.12 U	0.12 U	0.36 U	0.72 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	320	NA	NA	NA	NA	NA
	9/13/00	N/A	0.0011 U	0.0011 U	0.0011 U	0.0031 U	0.002 U	0.021 U	0.04 U2	0.042 U	0.021 U	0.04 U2	0.021 U	0.021 U	0.006	0.0066	0.0029	0.018	0.0046	0.009	0.0084	0.004 U	0.04 U2	0.04 U2	0.021 U	8.4 U	NA	NA	NA	NA	NA
	10/18/01	4	0.00088	0.001 U	0.0012	0.003 U	0.001 U	0.572 U	0.206	1.09	0.17	1.25	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	1.14	0.057 U	0.057 U	0.321	1.84	0.912	0.201	**7510**	NA	NA	NA	NA	NA
	10/10/02	4	0.268 U	0.268 U	0.268 U	0.537 U	0.268 U	0.805 U	1.61 U	1.61 U	0.322 U	3.22 U	1.61 U	0.322 U	0.322 U	0.322 U	0.322 U	0.322 U	0.322 U	0.322 U	0.322 U	1.61 U	2.49	1.03	6.77	**13100**	NA	NA	NA	NA	NA
	11/5/03	4	0.00586 U	0.00586 U	0.00586 U	0.0117 U	0.00586 U	0.0509 U	0.204 U	0.204 U	0.204 U	0.204 U	0.0202 U	0.0304	0.0202 U	0.0202 U	0.0202 U	0.0202 U	0.0202 U	0.0509 U	0.0202 U	0.102 U	0.0202 U	0.0241	0.0202 U	965 J	NA	NA	NA	NA	NA
	12/7/04	4	0.00477 U	0.00477 U	0.00477 U	0.0012 J	0.00477 U	0.00916 U	0.0367 U	0.0367 U	0.0367 U	0.0367 U	0.00364 U	0.00364 U	0.00364 U	0.00364 U	0.00364 U	0.00364 U	0.00364 U	0.00916 U	0.00364 U	0.0184 U	0.00364 U	0.00364 U	0.00364 U	67.7 JB	NA	NA	NA	NA	NA
	12/1/2005	4	0.00508 U	0.00508 U	0.00508 U	0.0102 U	0.00508 U	0.00885 U	0.0355 U	0.0355 U	0.0355 U	0.0355 U	0.00352 U	0.00352 U	0.00352 U	0.00838	0.00352 U	0.00331 J	0.00352 U	0.00449 J	0.00352 U	0.0178 U	0.00352 U	0.00352 U	0.00352 U	8.53 UJ	NA	NA	NA	NA	NA
	2/13/2008	2	0.024 U	0.039 U	0.045 U	0.037 U	0.017 U	0.018 U	0.055 U	0.019 U	0.014 U	0.011 U	0.015 U	0.02 U	0.012 U	0.017 U	0.021 U	0.038 U	0.017 U	0.025 U	0.033 U	0.014 U	0.029 U	0.012 U	0.022 U	65 J	NA	NA	NA	NA	NA
	2/13/2008	8	0.03 U	0.048 U	0.055 U	0.045 U	0.02 U	0.019 U	0.058 U	0.02 U	0.015 U	0.011 U	0.016 U	0.021 U	0.013 U	0.018 U	0.023 U	0.041 U	0.018 U	0.027 U	0.035 U	0.015 U	0.031 U	0.013 U	0.023 U	860	0.55 J	240	550	68	3.3
B-104	3/22/99	N/A	0.11 U	0.11 U	0.11 U	0.33 U	0.67 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	28	NA	NA	NA	NA	NA
	9/13/00	N/A	0.001 U	0.001 U	0.0018	0.0084	0.002 U	0.02 U1	0.041 U	0.041 U	0.02 U1	0.041 U	0.002 U1	0.002 U1	0.002 U	0.0041 U	0.002 U1	0.004 U	0.002 U1	0.002 U1	0.0041 U	0.004 U	0.0041 U	0.041 U	0.002 U1	8.3 U	NA	NA	NA	NA	NA
	10/18/01	4	0.001 U2	0.001 U2	0.001 U2	0.0035 U	0.001 U2	0.569 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.011J	0.057 U	0.0041J	0.057 U	0.057 U	0.057 U	0.057 U	0.0049J	0.057 U	0.014J	80	NA	NA	NA	NA	NA
	10/10/02	4	0.00169 J	0.00268 J	0.0107	0.029	0.00584 U	0.00864 U	0.0173 U	0.0173 U	0.00346 U	0.0346 U	0.0173 U	0.00346 U	0.00346 U	0.00346 U	0.00346 U	0.00346 U	0.00346 U	0.00346 U	0.00346 U	0.0173 U	0.00346 U	0.00346 U	0.00346 U	10.3	NA	NA	NA	NA	NA
	11/5/03	4	0.00548 U	0.00548 U	0.00548 U	0.00165 J	0.00548 U	0.00939 U	0.0377 U	0.0377 U	0.0377 U	0.0377 U	0.00373 U	0.00373 U	0.00373 U	0.00373 U	0.00373 U	0.00373 U	0.00373 U	0.00939 U	0.00373 U	0.0189 U	0.00373 U	0.00373 U	0.00373 U	37.7	NA	NA	NA	NA	NA
	12/7/04	4	0.00495 U	0.00495 U	0.00495 U	0.00989 U	0.00495 U	0.00872 U	0.035 U	0.035 U	0.035 U	0.035 U	0.00347 U	0.0351	0.00347 U	0.00347 U	0.00347 U	0.00347 U	0.00347 U	0.00872 U	0.00347 U	0.0175 U	0.00347 U	0.00347 U	0.00347 U	12.6 JB	NA	NA	NA	NA	NA
	12/1/2005	4	0.00514 U	0.00514 U	0.00779	0.00502 J	0.00514 U	0.0455 U	0.182 U	0.182 U	0.182 U	0.182 U	0.0181 U	0.0181 U	0.0364	0.0353	0.0136 J	0.0181 U	0.0181 U	0.056 J	0.0181 U	0.0915 U	0.0181 U	0.0181 U	0.0927 J	1380 JB	0.858 JB	331.275 JB	743.94 JB	139.018 JB	1.17 JB
	2/13/2008	2	0.026 U	0.041 U	0.047 U	0.038 U	0.017 U	0.017 U	0.054 U	0.019 U	0.014 U	0.01 U	0.015 U	0.02 U	0.012 U	0.017 U	0.021 U	0.038 U	0.017 U	0.025 U	0.032 U	0.014 U	0.029 U	0.012 U	0.021 U	24	NA	NA	NA	NA	NA
	2/13/2008	8	0.03 U	0.047 U	0.054 U	0.044 U	0.02 U	0.019 U	0.058 U	0.046 J	0.015 U	0.011 U	0.016 U	0.19	0.041 J	0.19	0.12 J	0.041 U	0.2	0.041 J	0.035 U	0.015 U	0.09 J	0.038 J	0.13 J	33	NA	NA	NA	NA	NA
B-106	3/22/99	N/A	0.12 U	0.12 U	0.12 U	0.37 U	0.75 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3200**	NA	NA	NA	NA	NA
	9/13/00	N/A	0.001 U	0.001	0.002	0.0145	0.002 U	0.19 U	2.4	0.38 U	0.47	0.38 U	0.019 U	0.62	0.68	0.97	0.62	0.5	0.89	0.31	0.34	0.038 U	0.93	0.38 U	2.8	1000	NA	NA	NA	NA	NA
	10/18/01	4	0.0011 U	0.0011 U	0.0011 U	0.0033 U	0.0011 U	0.55 U0	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.023J	0.040J	0.037J	0.055 U	0.040J	0.034J	0.038J	0.055 U	0.055 U	0.055 U	0.023J	0.019J	37	NA	NA	NA	NA	NA
	10/10/02	4	0.00479 U	0.00132 J	0.00494	0.0122	0.00479 U	0.125	0.0167 U	0.0167 U	0.00334 U	0.0334 U	0.0167 U	0.00334 U	0.0197	0.0309	0.00334 U	0.0395	0.0303	0.00334 U	0.00334 U	0.0167 U	0.0781	0.00334 U	0.0409	483	NA	NA	NA	NA	NA
	11/5/03	4	0.00522 U	0.00522 U	0.00349 B	0.00151 J	0.00522 U	0.00917 U	0.0368 U	0.0368 U	0.0368 U	0.0368 U	0.00365 U	0.00365 U	0.00497	0.0134	0.0107	0.00365 U	0.0282	0.00917 U	0.00365 U	0.0185 U	0.00565	0.00365 U	0.00365 U	401	NA	NA	NA	NA	NA
	12/7/04	4	0.00447 U	0.00447 U	0.00447 U	0.00895 U	0.00447 U	0.00854 U	0.0343 U	0.0343 U	0.0343 U	0.0343 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.00854 U	0.0034 U	0.0172 U	0.0034 U	0.0034 U	0.0034 U	6.91 JB	NA	NA	NA	NA	NA
	12/1/2005	4	0.00503 U	0.00503 U	0.00503 U	0.0101 U	0.00503 U	0.0453 U	0.182 U	0.182 U	0.182 U	0.182 U	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.0167 J	0.018 U	0.0911 U	0.018 U	0.018 U	0.018 U	19.7 JB	NA	NA	NA	NA	NA
	2/14/2008	2	0.024 U	0.038 U	0.044 U	0.036 U	0.016 U	0.018 U	0.054 U	0.019 U	0.014 U	0.011 U	0.015 U	0.02 U	0.012 U	0.017 U	0.021 U	0.038 U	0.017 U	0.025 U	0.033 U	0.014 U	0.029 U	0.012 U	0.022 U	9 JB	NA	NA	NA	NA	NA
	2/14/2008	6	0.024 U	0.038 U	0.044 U	0.036 U	0.016 U	0.018 U	0.056 U	0.02 U	0.015 U	0.011 U	0.015 U	0.02 U	0.013 U	0.018 U	0.022 U	0.04 U	0.018 U	0.026 U	0.034 U	0.015 U	0.03 U	0.013 U	0.022 U	56 JB	NA	NA	NA	NA	NA
B-110	3/22/99	N/A	0.13 U	0.13 U	0.13 U	0.39 U	0.78 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1000	NA	NA	NA	NA	NA
	9/13/00	N/A	0.097 U	0.097 U	0.097 U	0.286 U	0.2 U	0.97 U	1.9 U	1.9 U	3.7	4.3	0.097 U	0.097 U	0.098 U	0.19 U	0.097 U	0.19 U	1.6	0.097 U	0.19 U	0.23	0.19 U	1.9 U	0.097 U	530	NA	NA	NA	NA	NA
	10/18/01	4	0.001 U	0.001 U	0.001 U	0.003 U	0.001 U	0.575 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	17 U	NA	NA	NA	NA	NA
	10/10/02	4	0.248 U	0.248 U	0.248 U	0.495 U	0.248 U	0.00857 U	0.0171 U	0.0171 U	0.00343 U	0.0343 U	0.0171 U	0.00343 U	0.00343 U	0.00343 U	0.00343 U	0.00343 U	0.00343 U	0.00343 U	0.00343 U	0.0171 U	0.00343 U	0.00343 U	0.00343 U	9.14 U	NA	NA	NA	NA	NA
	11/5/03	2	0.00523 U	0.00523 U	0.00523 U	0.0105 U	0.00523 U	0.00888 U	0.0356 U	0.0356 U	0.0356 U	0.0356 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00888 U	0.00353 U	0.0179 U	0.00353 U	0.00353 U	0.00353 U	95.1	NA	NA	NA	NA	NA
	12/7/04	2	0.00466 U	0.00466 U	0.00466 U	0.00932 U	0.00466 U	0.00867 U	0.0348 U	0.0348 U	0.0348 U	0.0348 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.00867 U	0.00345 U	0.0174 U	0.00345 U	0.00345 U	0.00345 U	7.85 JB	NA	NA	NA	NA	NA
	12/1/2005	2	0.00508 U	0.00508 U	0.00508 U	0.0102 U	0.00508 U	0.00996 U	0.04 U	0.04 U	0.04 U	0.04 U	0.00396 U	0.00396 U	0.00396 U	0.00396 U	0.00396 U	0.00396 U	0.00396 U	0.00996 U	0.00396 U	0.02 U	0.00396 U	0.00396 U	0.00396 U	9.53 UJ	NA	NA	NA	NA	NA
	2/13/2008	7	0.023 U	0.037 U	0.043 U	0.035 U	0.016 U	0.018 U	0.055 U	0.019 U	0.014 U	0.011 U	0.015 U	0.02 U	0.012 U	0.017 U	0.022 U	0.039 U	0.017 U	0.025 U	0.033 U	0.014 U	0.029 U	0.012 U	0.022 U	340	NA	NA	NA	NA	NA
B-137	3/22/99	N/A	0.1 U	0.1 U	0.1 U	0.52	0.63 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1200	NA	NA	NA	NA	NA
	9/13/00	N/A	0.001 U3	0.001 U3	0.001 U3	0.008	0.002 U	0.02 U	0.04 U	0.04 U	0.02 U	0.04 U	0.002 U	0.002 U	0.002 U	0.004 U	0.002 U	0.004 U	0.002 U	0.002 U	0.003 U9	0.004 U	0.004 U	0.04 U	0.002 U	8	NA	NA	NA	NA	NA
	10/18/01	2	0.001 2 U	0.001 2 U	0.001 2 U	0.0037 U	0.001 2 U	0.563 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	17 U	NA	NA	NA	NA	NA
	10/10/02	4	0.00161 J	0.00108 J	0.00414 J	0.0111	0.00497 U	0.00811 U	0.0162 U	0.0162 U	0.00325 U	0.0325 U	0.0162 U	0.00325 U	0.00325 U	0.00325 U	0.00325 U	0.00325 U	0.00325 U	0.00325 U	0.00325 U	0.0162 U	0.00325 U	0.00325 U	0.00325 U	127	NA	NA	NA	NA	NA
	11/5/03	4	0.0012 J	0.00533 U	0.00226 B	0.00337 J	0.00533 U	0.00917 U	0.0368 U	0.0368 U	0.0368 U	0.0368 U	0.00364 U	0.00364 U	0.00364 U	0.00364 U	0.00364 U	0.00364 U	0.00364 U	0.00917 U	0.00364 U	0.0184 U	0.00364 U	0.0155	0.00364 U	22.9	NA	NA	NA	NA	NA
	12/7/04	4	0.255 U	0.255 U	0.255 U	0.51 U	0.255 U	0.00891 U	0.0358 U	0.0358 U	0.0358 U	0.0358 U	0.00354 U	0.00354 U	0.00354 U	0.00354 U	0.00354 U	0.00354 U	0.00354 U	0.00891 U	0.00354 U	0.0179 U	0.00354 U	0.00354 U	0.103	14.9 JB	NA	NA	NA	NA	NA
	12/1/2005	4	0.00529 U	0.00529 U	0.00529 U	0.0106 U	0.00529 U	0.0091 U	0.0365 U	0.0365 U	0.0365 U	0.0365 U	0.00362 U	0.00362 U	0.00362 U	0.00362 U	0.00362 U	0.00362 U	0.00362 U	0.0091 U	0.00362 U	0.0183 U	0.00362 U	0.00362 U	0.00362 U	9.5 JB	NA	NA	NA	NA	NA
	2/13/2008	7	0.27 UJ	0.43 UJ	0.49 UJ	1.7 J	0.18 UJ	0.093 U	0.29 U	0.1 U	0.076 U	0.056 U	0.078 U	0.1 U	0.066 U	0.09 U	0.11 U	0.2 U	0.16 J	0.13 U	0.17 U	0.075 U	0.15 U	0.065 U	0.66 J	**24000**	2000	12000	9200	780	200
B-146	3/22/99	N/A	0.1 U	0.1 U	0.1 U	0.31 U	0.63 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1000	NA	NA	NA	NA	NA
	9/13/00	N/A	0.001 U3	0.001 U3	0.002	0.006	0.002 U	0.028	0.041 U	0.041 U	0.02 U1	0.041 U	0.002 U	0.002 U	0.008	0.0041 U	0.002 U	0.004 U	0.002 U	0.002 U	0.004 U	0.005	0.0041 U	0.041 U	0.002 U	13	NA	NA	NA	NA	NA
	10/18/01	4	0.001 U2	0.001 U2	0.001 U2	0.0037 U	0.001 U2	0.541 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.0059	0.0099	0.017	0.054 U	0.184	0.0092	0.054 U	0.012	0.185	0.054 U	0.029	1640	NA	NA	NA	NA	NA
	10/10/02	4	0.239 U	0.616	0.239 U	3.22	0.239 U	0.392 U	0.783 U	0.783 U	0.157 U	1.57 U	0.783 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.783 U	1.04	0.157 U	3.18	**4180**	NA	NA	NA	NA	NA
	11/5/03	4	0.00514 U	0.00514 U	0.00514 U	0.0103 U	0.00514 U	0.00886 U	0.0356 U	0.0356 U	0.0356 U	0.0356 U	0.00352 U	0.00352 U	0.00352 U	0.00352 U	0.00352 U	0.00352 U	0.00352 U	0.00886 U	0.00352 U	0.0178 U	0.00352 U	0.00352 U	0.00352 U	365	NA	NA	NA	NA	NA
	12/8/04	4	0.0047 U	0.0047 U	0.0047 U	0.00362 J	0.0047 U	0.00871 U	0.0349 U	0.0349 U	0.0349 U	0.0349 U	0.00346 U	0.0178	0.00346 U	0.00346 U	0.00567	0.0074	0.00346 U	0.00991	0.026	0.0175 U	0.00346 U	0.00346 U	0.00346 U	43.5 JB	NA	NA	NA	NA	NA
	12/1/2005	4	0.00523 U	0.00523 U	0.000974 J	0.00248 J	0.00523 U	0.00886 U	0.0356 U	0.0132 J	0.0356 U	0.0356 U	0.00352 U	0.0228 J	0.00352 U	0.0105	0.00366 J	0.0258 J	0.00352 U	0.0164 J	0.038 J	0.0178 U	0.0092	0.00352 U	0.00516	13.4 JB	NA	NA	NA	NA	NA
	2/14/2008	8	0.024 U	0.039 U	0.044 U	0.036 U	0.016 U	0.021 U	0.064 U	0.022 U	0.017 U	0.012 U	0.017 U	0.023 U	0.014 U	0.02 U	0.025 U	0.045 U	0.02 U	0.029 U	0.038 U	0.017 U	0.034 U	0.014 U	0.025 U	35 JB	NA	NA	NA	NA	NA

TABLE 1-1 Historical Soil Analytical Results

South Fuel Farm Site, NAS Cecil Field, Jacksonville, FL

Soil Boring Number	Sample Date	Sample Depth (feet bls)	Benzene	Ethyl Benzene	Toluene	Xylene	Methyl tert-butyl ether	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (g,h,i) perylene	Chrysene	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Fluorene	Fluoranthene	Phenanthrene	Pyrene	TRPH (mg/kg)	C10-C12 Petroleum Hydrocarbons	C12-C16 Petroleum Hydrocarbons	C16-C22 Petroleum Hydrocarbons	C22-C36 Petroleum Hydrocarbons	C8-C10 Petroleum Hydrocarbons
B-158	3/22/99	N/A	0.12 U	0.12 U	0.12 U	0.36 U	0.7 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	9.5	NA	NA	NA	NA	NA
	9/13/00	N/A	0.0016	0.003	0.002	0.0342	0.002 U	0.13	0.041 U	0.041 U	0.02 U1	0.041 U	0.002 U	0.002 U	0.004	0.0041 U	0.0028	0.01	0.002 U	0.002 U	0.005	0.01	0.0041 U	0.041 U	0.002 U	8.2 U	NA	NA	NA	NA	NA
	10/18/01	4	0.001 U2	0.001 U2	0.001 U2	0.0037 U	0.001 U2	0.596 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	18 U	NA	NA	NA	NA	NA
	10/10/02	2	0.00341 J	0.00268 J	0.00622	0.0252	0.00189 J	0.00825 U	0.0165 U	0.0165 U	0.0033 U	0.033 U	0.0165 U	0.0033 U	0.00678	0.00766	0.00396	0.0202	0.0033 U	0.0033 U	0.0033 U	0.0165 U	0.0129	0.0033 U	0.0033 U	5.9 J	NA	NA	NA	NA	NA
	11/5/03	2	0.00537 U	0.00108 J	0.00537 U	0.00233 J	0.00537 U	0.00908 U	0.0364 U	0.0364 U	0.0364 U	0.0364 U	0.00361 U	0.0552	0.084	0.00361 U	0.0558	0.0802	0.0976	0.062	0.0669	0.0183 U	0.00361 U	0.00361 U	0.108	19.6	NA	NA	NA	NA	NA
	12/8/04	2	0.00469 U	0.00111 J	0.00469 U	0.00333 J	0.00469 U	0.00862 U	0.0346 U	0.0346 U	0.0325 J	0.0346 U	0.00354	0.204	0.113	0.0867	0.145	0.0493	0.057	0.0518	0.048	0.0173 U	0.0344	0.0101	0.0701	63.5 JB	NA	NA	NA	NA	NA
	12/1/2005	2	0.00515 U	0.00515 U	0.00515 U	0.0103 U	0.00515 U	0.009 U	0.0361 U	0.0361 U	0.0361 U	0.0361 U	0.00358 U	0.00358 U	0.00358 U	0.00358 U	0.00358 U	0.00358 U	0.00358 U	0.009 U	0.00358 U	0.0181 U	0.00358 U	0.00358 U	0.00358 U	6.36 JB	NA	NA	NA	NA	NA
	2/13/2008	3	0.028 U	0.045 U	0.052 U	0.042 U	0.019 U	0.017 U	0.052 U	0.018 U	0.014 U	0.01 U	0.014 U	0.019 U	0.036 J	0.045 J	0.021 U	0.037 U	0.017 J	0.024 U	0.032 U	0.014 U	0.028 U	0.015 J	0.021 U	11 J	NA	NA	NA	NA	NA
B-167	3/22/99	N/A	0.12 U	0.45	0.29	2.8	0.72 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4200**	NA	NA	NA	NA	NA
	9/13/00	N/A	0.0011 U	0.0011 U	0.0011 U	0.0031 U	0.002 U	0.02 U	0.04 U	0.04 U	0.02 U	0.04 U0	0.002 U	0.002 U	0.002 U	0.004 U	0.002 U	0.004 U	0.002 U	0.002 U	0.004 U	0.004 U	0.004 U	0.04 U	0.002 U	8.1 U	NA	NA	NA	NA	NA
	10/18/01	4	0.029	3.84	0.019	5.334	0.0034	10.3	22.3	26.3	0.188	0.573 U	0.573 U	0.573 U	0.573 U	0.573 U	0.573 U	0.573 U	0.351	0.573 U	0.573 U	1.71	2.07	2.37	0.573 U	**11400**	NA	NA	NA	NA	NA
	10/10/02	4	0.219 U	0.219 U	0.219 U	0.439 U	0.219 U	9.05	21	34.9	0.334 U	3.34 U	1.67 U	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U	1.67 U	0.334 U	0.334 U	0.334 U	**13800**	NA	NA	NA	NA	NA
	11/5/03	2	0.00501 U	0.00501 U	0.00501 U	0.01 U	0.00501 U	0.00869 U	0.0349 U	0.0349 U	0.0349 U	0.0349 U	0.00346 U	0.00346 U	0.0015 J	0.00194 J	0.00232 J	0.00346 U	0.00346 U	0.00869 U	0.00346 U	0.0175 U	0.00346 U	0.00346 U	0.00346 U	8.38 U	NA	NA	NA	NA	NA
	12/8/04	2	0.235 U	0.235 U	0.235 U	0.469 U	0.235 U	0.533 J	5.91 J	1.98 J	0.0362 U	0.0362 U	0.00359 U	0.00359 U	0.00359 U	0.00359 U	0.00359 U	0.00359 U	0.00359 U	0.00903 U	0.00359 U	0.0182 U	0.00359 U	0.233 J	0.00359 U	1840 JB	NA	NA	NA	NA	NA
	12/1/2005	2	0.00571 U	0.00571 U	0.00571 U	0.0114 U	0.00571 U	0.00996 U	0.0399 U	0.0399 U	0.0399 U	0.0399 U	0.00396 U	0.0097 J	0.0102 J	0.0202 J	0.00652 J	0.029 J	0.00638 J	0.0164 J	0.0749 J	0.02 U	0.00693 J	0.00396 U	0.0145 J	14.9 JB	NA	NA	NA	NA	NA
	2/14/2008	2	0.027 U	0.044 U	0.05 U	0.041 U	0.019 U	0.018 U	0.054 U	0.019 U	0.014 U	0.011 U	0.015 U	0.02 U	0.012 U	0.018 J	0.021 U	0.038 U	0.017 U	0.025 U	0.033 U	0.014 U	0.029 U	0.012 U	0.022 U	10 JB	NA	NA	NA	NA	NA
	2/14/2008	8	0.23 U	0.37 U	0.42 U	0.34 U	0.16 U	0.019 U	1.4	1.5	0.016 U	0.012 U	0.016 U	0.021 U	0.014 U	0.019 U	0.023 U	0.042 U	0.018 U	0.027 U	0.036 U	0.015 U	0.032 U	0.013 U	0.024 U	**2900 JB**	1300	1300	8.2 J	13 U	320
B-189	3/22/99	N/A	0.11 U	0.11 U	0.11 U	0.33 U	0.67 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	7.4 U	NA	NA	NA	NA	NA
	9/13/00	N/A	0.0018	0.0011 U	0.0038	0.0061	0.002 U	0.02 U	0.041 U	0.041 U	0.02 U1	0.041 U	0.002 U	0.002 U	0.004	0.0041 U	0.0021	0.005	0.002 U	0.002	0.004 U	0.006	0.0041 U	0.041 U	0.004	8.2 U	NA	NA	NA	NA	NA
	10/18/01	4	0.001 U2	0.00062J	0.001 U2	0.0042	0.001 U2	<0.570	0.057 U	0.013J	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	18	NA	NA	NA	NA	NA
	10/10/02	2	0.285 U	0.285 U	0.285 U	0.57 U	0.285 U	0.00953 U	0.0191 U	0.0191 U	0.00381 U	0.0381 U	0.0191 U	0.00381 U	0.00686	0.00593	0.00606	0.00381 U	0.00381 U	0.00381 U	0.00381 U	0.0191 U	0.014	0.00381 U	0.00932	10.2 U	NA	NA	NA	NA	NA
	11/5/03	4	0.00583 U	0.00583 U	0.00583 U	0.0117 U	0.00583 U	0.00967 U	0.0388 U	0.0388 U	0.0388 U	0.0388 U	0.00385 U	0.00385 U	0.00385 U	0.00387	0.00385 U	0.00385 U	0.00385 U	0.00967 U	0.00385 U	0.0195 U	0.00385 U	0.00385 U	0.00385 U	11	NA	NA	NA	NA	NA
	12/8/04	4	0.00174 J	0.00106 J	0.00333 J	0.0118	0.00497 U	0.00874 U	0.0351 U	0.0351 U	0.0351 U	0.0351 U	0.00348 U	0.00348 U	0.00348 U	0.00348 U	0.00348 U	0.00348 U	0.00348 U	0.00874 U	0.00348 U	0.0176 U	0.00348 U	0.00348 U	0.00348 U	57.9 JB	NA	NA	NA	NA	NA
	12/1/2005	4	0.00534 U	0.00534 U	0.00534 U	0.0107 U	0.00534 U	0.00892 U	0.0358 U	0.0358 U	0.0358 U	0.0358 U	0.00355 U	0.00355 U	0.00355 U	0.00355 U	0.00355 U	0.00355 U	0.00355 U	0.00892 U	0.00355 U	0.0179 U	0.00355 U	0.00355 U	0.00355 U	7.38 JB	NA	NA	NA	NA	NA
	2/12/2008	5	0.024 U	0.039 U	0.045 U	0.036 U	0.017 U	0.017 U	0.053 U	0.018 U	0.014 U	0.01 U	0.014 U	0.019 U	0.012 U	0.016 U	0.021 U	0.037 U	0.016 U	0.024 U	0.032 U	0.014 U	0.028 U	0.012 U	0.021 U	7.6 J	NA	NA	NA	NA	NA
BORING A	8/3/2006	3	0.00508 U	0.00508 U	0.00508 U	0.0102 U	0.00508 U	0.00913 U	0.0366 U	0.0366 U	0.0366 U	0.0366 U	0.00363 U	0.00363 U	0.00363 U	0.00363 U	0.00363 U	0.00363 U	0.00593 J	0.00913 U	0.00363 U	0.0184 U	0.00363 U	0.00363 U	0.00363 U	9.52 JB	NA	NA	NA	NA	NA
	8/3/2006	6	0.0051 U	0.0051 U	0.0051 U	0.0102 U	0.0051 U	0.00881 U	0.0353 U	0.0353 U	0.0353 U	0.0353 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.00881 U	0.0035 U	0.0177 U	0.0035 U	0.0035 U	0.0035 U	6.74 JB	NA	NA	NA	NA	NA
	8/3/2006	9	0.00479 U	0.00479 U	0.00479 U	0.00957 U	0.00479 U	0.0102 U	0.0408 U	0.0408 U	0.0408 U	0.0408 U	0.00405 U	0.00405 U	0.00405 U	0.00405 U	0.00405 U	0.00405 U	0.00405 U	0.0102 U	0.00405 U	0.0205 U	0.00405 U	0.00405 U	0.00405 U	7.73 JB	NA	NA	NA	NA	NA
	2/12/2008	3	0.026 U	0.042 U	0.048 U	0.039 U	0.018 U	0.018 U	0.056 U	0.019 U	0.015 U	0.011 U	0.015 U	0.02 U	0.013 U	0.018 U	0.022 U	0.039 U	0.017 U	0.026 U	0.034 U	0.014 U	0.03 U	0.013 U	0.022 U	12 J	NA	NA	NA	NA	NA
BORING B	8/3/2006	3	0.00181 J	0.00513 U	0.0237	0.0155	0.00513 U	0.00866 U	0.0348 U	0.0122 J	0.0818	0.0348 U	0.00344 U	0.0181	0.0268	0.0393	0.0234	0.037	0.0357 J	0.0313	0.032	0.0174 U	0.0209 J	0.00344 U	0.0351	60 JB	NA	NA	NA	NA	NA
	8/3/2006	6	0.00502 U	0.00502 U	0.00502 U	0.01 U	0.00502 U	0.00981 U	0.0394 U	0.0394 U	0.0394 U	0.0394 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.00981 U	0.0039 U	0.0197 U	0.0039 U	0.0039 U	0.0039 U	11.1 JB	NA	NA	NA	NA	NA
	8/3/2006	9	0.00554 U	0.00554 U	0.00554 U	0.0111 U	0.00554 U	0.00936 U	0.0376 U	0.0376 U	0.0376 U	0.0376 U	0.00372 U	0.00502	0.0107	0.0107	0.00658	0.0129	0.0118 J	0.00936 U	0.00372 U	0.0188 U	0.018 J	0.00661	0.0228	13.8 JB	NA	NA	NA	NA	NA
	2/12/2008	7	0.025 U	0.04 U	0.046 U	0.037 U	0.017 U	0.019 U	0.058 U	0.02 U	0.015 U	0.011 U	0.016 U	0.021 U	0.013 U	0.018 U	0.023 U	0.041 U	0.018 U	0.027 U	0.035 U	0.015 U	0.031 U	0.013 U	0.023 U	11 J	NA	NA	NA	NA	NA
BORING C	8/3/2006	3	0.00512 U	0.00512 U	0.00512 U	0.00361 J	0.00512 U	0.00871 U	0.0349 U	0.0349 U	0.0349 U	0.0349 U	0.00346 U	0.00346 U	0.0107	0.0101	0.00273 J	0.0111	0.00346 U	0.00871 U	0.00346 U	0.0175 U	0.00346 U	0.00346 U	0.00391	27.5 JB	NA	NA	NA	NA	NA
	8/3/2006	6	0.00512 U	0.00512 U	0.00512 U	0.0102 U	0.00512 U	0.0129	0.0375 U	0.0375 U	0.0375 U	0.0375 U	0.00372 U	0.00372 U	0.00372 U	0.00372 U	0.00372 U	0.00372 U	0.00372 U	0.00935 U	0.00372 U	0.0188 U	0.00372 U	0.00372 U	0.0099	99.7 JB	NA	NA	NA	NA	NA
	8/3/2006	9	0.00553 U	0.0107	0.00553 U	0.164	0.00553 U	0.00956 U	0.0384 U	0.0384 U	0.0384 U	0.0384 U	0.0109	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.00956 U	0.0038 U	0.0192 U	0.0306	0.047	0.0195	21.1 JB	NA	NA	NA	NA	NA
	2/14/2008	8	0.028 U	0.045 U	0.052 U	0.042 U	0.019 U	0.018 U	0.057 U	0.02 U	0.015 U	0.011 U	0.015 U	0.021 U	0.046 J	0.049 J	0.022 U	0.04 U	0.047 J	0.026 U	0.034 U	0.015 U	0.03 U	0.013 U	0.023 U	310 JB	NA	NA	NA	NA	NA
BORING D	8/3/2006	3	0.00578 U	0.00578 U	0.00578 U	0.0116 U	0.00578 U	0.00867 U	0.0348 U	0.0348 U	0.0348 U	0.0348 U	0.00345 U	0.00345 U	0.00781	0.0127	0.00365	0.00937 J	0.00426 J	0.00867 U	0.0088	0.0174 U	0.00443 J	0.00345 U	0.00426 J	9.51 JB	NA	NA	NA	NA	NA
	8/3/2006	6	0.00535 U	0.00535 U	0.00535 U	0.0107 U	0.00535 U	0.00952 U	0.0382 U	0.0382 U	0.0382 U	0.0382 U	0.00379 U	0.00379 U	0.00379 U	0.00379 U	0.00379 U	0.00379 U	0.00379 U	0.00952 U	0.00379 U	0.0192 U	0.00379 U	0.00379 U	0.00379 U	12.7 JB	NA	NA	NA	NA	NA
	8/3/2006	9	0.00546 U	0.00546 U	0.00546 U	0.0109 U	0.00546 U	0.00965 U	0.0387 U	0.0387 U	0.0387 U	0.0387 U	0.00384 U	0.00384 U	0.00384 U	0.00384 U	0.00384 U	0.00384 U	0.00384 U	0.00965 U	0.00384 U	0.0194 U	0.00384 U	0.00384 U	0.00384 U	10.7 JB	NA	NA	NA	NA	NA
	2/14/2008	2	0.027 U	0.043 U	0.049 U	0.04 U	0.018 U	0.018 U	0.054 U	0.019 U	0.014 U	0.011 U	0.058 J	0.27 J	0.15 J	0.24 J	0.12 J	0.067 J	0.24 J	0.07 J	0.032 U	0.014 U	0.37 J	0.2 J	0.28 J	18 JB	NA	NA	NA	NA	NA

All values reported in milligram per kilogram (mg/kg)

1 - Ch 62-777 F.A.C Soil cleanup Target Level (SCTLs) reported in mg/kg

bgs - below ground surface

U - result was not detected

N/A - not available

NS - not sampled for compound

J - concentration is less than the reporting limit but greater than the method detection limit

JB- Estimate value. The analyte was detected in the associated method and/or calibration blank.

Bolded values indicate the compounds that exceed the Industustrial Direct Exposure SCTLs

Shaded values indicate the compounds that exceed the Leachability to groundwater SCTLs

Sampling events dated prior to 10/18/01 were performed by previous CONTRACTOR.

Table 1-2

Historical Groundwater Analytical Results

South Fuel Farm Site, Former NAS Cecil Field, Jacksonville, FL

Well Identification	Sample Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	Naphthalene	Lead	TRPH
FDEP GCTL		1	30	40	20	20	15	5000
Natural Attenuation Default Conc. [1]		100	300	400	200	200	150	50000
CEF-043-2N	3/9/1998	<1	<1	<1	<2	<10	5	3,500
	5/19/1998	6	300	4,900	1,320	230	29	900
	8/25/1998	<1	24	70	72	<10	15	9,000
	12/14/1998	2.2	86	830	240	<10	22	4,200
	4/10/2000	<5	100	380	290	56	19	30,000
	5/9/2002	0.32	20.5	26.3	63	3.8	4.0 B	24,600
	5/27/2003	<5	2.29	<5	7.09	<0.25	<15	7,930
	5/26/2004	<5	22.4	<5	26.9	40.1 J	<15	36400
	6/16/2005	<5	7.24	<5	7.7 J	2.01 J	<15	9170 JB
	2/22/2008	<1	23	0.39 JB	26	5.5 JB	2.2 J	9300 JB
	7/10/2008	<1	28	7.4 JB	60	13 JB	2.9 J	8300
	11/6/2008	<1	14	0.77 J	13	<0.047	4.1	300 J
	2/4/2009	<1	21	0.47 J	7.5	12JB	5.7 B	9300
CEF-043-6N	3/9/1998	730	930	1,500	5,500	<100	51	15,000
	5/19/1998	230	1,300	1,700	10,000	82	120	19,000
	8/25/1998	60	400	360	1,820	<10	9	3,900
	12/14/1998	24	280	85	2,580	<10	78	18,000
	4/10/2000	11	190	80	880	<10	48	14,000
	5/9/2002	<1	15.6	0.66	67.7	1.1	20	3,600
	5/27/2003	<5	1.58	<5	6.89	<0.25	17	<84.8
	5/26/2004	<5	10.3	<5	29.9	3.91	21	2220 J
	6/16/2005	<5	<5	<5	<10	<0.25	17	1100 JB
	2/22/2008	0.16 J	2.4	<1	<1	<0.049	11.7	3100 JB
	7/10/2008	0.45 J	2.1	<1	<1	0.41JB	9.1	4500
	11/6/2008	0.17 J	0.31 J	0.11 J	0.028 J	<0.047	12.1	480 J
	2/4/2009	0.59 J	2.7	<1	0.54 J	<0.092	7.4	1400
CEF-043-7N	3/9/1998	39	320	62	1,560	<10	76	14,000
	5/19/1998	<50	2,300	300	10,200	54	120	12,000
	8/25/1998	<1	90	10	1,050	<10	61	1,800
	12/14/1998	<1	320	24	5,400	<10	7	19,000
	4/10/2000	<1	3	2.2	12.6	<10	13	600
	5/9/2002	<1	<1	<1	<3	<0.21	4.2 B	2,600
	5/27/2003	<5	<5	<5	<10	<0.25	5.9	<776
	5/26/2004	<5	<5	<5	<10	<0.25	7.1 J	157 J
	6/16/2005	<5	<5	<5	<10	<0.25	<15	184 JB
	2/22/2008	200	230	15 JB	1400	6 JB	2.2 J	2900 JB
	7/9/2008	220 J	360 J	15 J	1800	37 J	3.2	4400 J
	11/6/2008	39	74	6.6	290	<0.025 JB	2.4 J	460 J
	2/4/2009	190	520	21	2600 J	42J	2.8J	6000
CEF-043-9N	3/9/1998	<2	1.2	<1	11.3	<10	15	1,300
	5/19/1998	<2	18	1.3	68	62	17	1,300
	8/25/1998	<2	1	<1	8	<10	<5	<200
	12/14/1998	<2	18	<1	24	24	<5	300
	4/10/2000	<1	23	4.2	78	18	20	1,500
	5/9/2002	<1	18	0.4	71.4	30	10.5	5,300

Table 1-2

Historical Groundwater Analytical Results

South Fuel Farm Site, Former NAS Cecil Field, Jacksonville, FL

Well Identification	Sample Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	Naphthalene	Lead	TRPH
FDEP GCTL		1	30	40	20	20	15	5000
Natural Attenuation Default Conc. [1]		100	300	400	200	200	150	50000
	5/27/2003	<5	16.8	<5	82.6	58.9	<15	21,500
	5/26/2004	<5	27.2	3.31 J	106	84.7	<15	8040 J
	6/16/2005	<5	7.87	<5	19.4	11.9	<15	3170 JB
	2/22/2008	<1	11	<1	29	20 JB	<3	2600 JB
	7/9/2008	<1	16	<1	52	42	<3	7600
	11/6/2008	<1	9.5	<1	20	26 JB	< 3	1800 J
	2/4/2009	<1	6.6	<1	15	14 JB	21.1 B	2600
CEF-043-33N	3/9/1998	<1	<1	<1	<2	<10	5	<200
	5/19/1998	<1	<1	<1	<2	<10	5	<200
	8/25/1998	<1	<1	<1	<2	<10	10	<200
	12/14/1998	<1	<1	<1	<2	<10	<5	<200
	4/10/2000	<1	<1	<1	<2	<10	20	<200
	5/9/2002	<1	<1	<1	<3	0.21 J	<5	<370
	5/28/2003	<5	<5	<5	<10	<0.25	<15	<211
	5/26/2004	<5	<5	<5	<10	<0.25	<15	<100
	6/16/2005	<5	<5	<5	<10	<0.25	<15	175 JB
CEF-043-38N	3/9/1998	<1	<1	<1	<2	<10	140	<200
	5/19/1998	<1	<1	<1	<2	<10	78	<200
	8/25/1998	<1	<1	<1	1	<10	46	<200
	12/14/1998	<1	<1	<1	8.8	<10	54	<200
	4/10/2000	<1	<1	<1	<2	<10	49	<200
	5/9/2002	<1	<1	<1	<3	<0.21	2.5 B	<380
	5/28/2003	<5	<5	<5	<10	<0.25	<15	<131
	5/26/2004	<5	<5	<5	<10	<0.25	<15	51 J
	6/16/2005	<5	<5	<5	<10	<0.25	<15	183 JB
Groundwater Criteria [1]		1	30	40	20	20	15	5000
Natural Attenuation Default Source [1]		100	300	400	200	200	150	50000

All values reported in µg/L

1 = Ch 62-777 FAC Groundwater Cleanup Target Levels (GCTLs) reported in µg/L

BTEX = sum of benzene, toluene, ethylbenzene, and xylene

N/A = not analyzed for this compound

Shaded values indicate the compounds that exceed the GCTLs

Bolded values indicate the compounds that exceed the natural attenuation default source criteria

B = compound is present in the method blank

J = concentration is less than the reporting limit but greater than the method detection limit

Sampling events dated prior to 5/9/02 were performed by previous contractors.

Sampling event dated 3/9/98 is the baseline sampling event.

Attachment 2
Analytical Laboratory and Validation Reports

Naval Air Station Cecil Field

PREPARED FOR:	Former Naval Air Station Cecil Field / Post-active Remediation Monitoring for the Former South Fuel Farm facility
FINAL REVEIWER:	Trudy Scott/Project Scientist/CH2M HILL
COPIES:	Sam Naik /Project Manager/CCI
DATE:	April, 2008
SUBJECT:	Quality Assessment for Samples Collected February 12th, 13th, and 14 th, 2008

This quality assurance memorandum is based upon a review of analytical data generated for soil samples and associated field quality control samples collected February 12th, 13th, and 14th, 2008 at the Former Naval Air Station (NAS) Cecil Field in Jacksonville, Florida. The samples were collected as a part of the post-active remediation monitoring for the former South Fuel Farm facility conducted at the site. Table 1-1 presents a summary of the CH2M HILL Constructors, Inc. (CCI) sample identification (ID) numbers, laboratory sample ID numbers, dates of collection, and the analyses performed.

Empirical Laboratories of Nashville, Tennessee served as the laboratory for this post-active remediation monitoring South Fuel Farm facility sampling event for the following analyses:

- Selective Volatile Organic Compounds (VOC) by SW-846 method 8260B,
- Polynuclear aromatic hydrocarbons (PAH) by SW-846 method 8270C,
- Total petroleum hydrocarbons (TPH) by method FL-PRO

Method SW8310 was requested for the PAH analysis on the chain of custodies, but the laboratory performed method SW8270C PAH analysis and met Statement of Work requirements.

Table 1-1 ***Summary Sample Data Reviewed Former NAS Cecil Field***

Sample Number	Lab Sample ID	Date Sampled	Analysis Required
86SFFAS080212	0802100-1	02/12/2008	[1], [2], [3]
86SFFBS080212	0802100-2	02/12/2008	[1], [2], [3]
86SFF7S080212	0802100-3	02/12/2008	[1], [2], [3]
86SFF31S080212	0802100-4	02/12/2008	[1], [2], [3]
86SFF70S080212	0802100-5	02/12/2008	[1], [2], [3]

Sample Number	Lab Sample ID	Date Sampled	Analysis Required
86SFF99S080212	0802100-6	02/12/2008	[1], [2], [3]
86SFF189S080212	0802100-7	02/12/2008	[1], [2], [3]
86SFFEB1W080207	0802100-8	02/12/2008	[1], [2], [3]
86SFFEB2W080212	0802100-9	02/12/2008	[1], [2], [3]
TB5456	0802100-10	02/12/2008	[1]
86SFF137S080213	0802117-1	02/13/2008	[1], [2], [3]
86SFF110S080213	0802117-2	02/13/2008	[1], [2], [3]
86SFF158S080213	0802117-3	02/13/2008	[1], [2], [3]
86SFF1012S080213	0802117-4	02/13/2008	[1], [2], [3]
86SFF1018S080213	0802117-5	02/13/2008	[1], [2], [3]
86SFF962S080213	0802117-6	02/13/2008	[1], [2], [3]
86SFF964S080213	0802117-7	02/13/2008	[1], [2], [3]
86SFF1042S080213	0802117-8	02/13/2008	[1], [2], [3]
*86SFFDUP1S080213	0802117-9	02/13/2008	[1], [2], [3]
86SFF1048S080213	0802117-10	02/13/2008	[1], [2], [3]
*86SFFDUP2S080213	0802117-11	02/13/2008	[1], [2], [3]
86SFFDS080214	0802117-12	02/14/2008	[1], [2], [3]
86SFF1462S080214	0802117-13	02/14/2008	[1], [2], [3]
86SFFCS080214	0802117-14	02/14/2008	[1], [2], [3]
*86SFFDUP3S080214	0802117-15	02/14/2008	[1], [2], [3]
86SFF1468S080214	0802117-16	02/14/2008	[1], [2], [3]
86SFFEB3W080214	0802117-17	02/14/2008	[1], [2], [3]
86SFF1062S080214	0802117-18	02/14/2008	[1], [2], [3]
86SFF1066S080214	0802117-19	02/14/2008	[1], [2], [3]
86SFF1672S080214	0802117-20	02/14/2008	[1], [2], [3]

Sample Number	Lab Sample ID	Date Sampled	Analysis Required
86SFF1678S080214	0802117-21	02/14/2008	[1], [2], [3]
86SFF412S080214	0802117-22	02/14/2008	[1], [2], [3]
86SFF416S080214	0802117-23	02/14/2008	[1], [2], [3]
TB5453	0802117-24	02/14/2008	[1]
TB5454	0802117-25	02/14/2008	[1]
TB5455	0802117-26	02/14/2008	[1]

ANALYSES PERFORMED CODES:

[1] – Selective Volatile Organic Compounds (VOC) by method SW846-8260B (BTEX plus MTBE only),
[2] – Polynuclear aromatic hydrocarbons (PAH) by method SW846-8270C
[3] – Total Petroleum Hydrocarbons (TPH) by method FL-PRO,
* *86SFF1012S080213 is the blind field duplicate of 86SFFDUP1S080213*
86SFF1042S080213 is the blind field duplicate of 86SFFDUP2S080213
86SFFDS080214 is the blind field duplicate of 86SFFDUP3S080214

Data for the analyses were reviewed for adherence to the specified analytical protocols in accordance with CCI Sampling Analysis Plan. All analysis results have been validated or qualified according to general guidance provided in the Department of Defense Quality Systems Manual-Version 2 June 2002.

The findings of this quality assurance report are based upon the comprehensive review of the following results summaries reported according to the CCI Level C (CLP-like data deliverables format): chain of custody documentation, holding times, laboratory method and field blank analyses, surrogate compound recoveries, matrix spike compound recoveries and reproducibility, mass tuning results, initial and continuing calibration, second source recovery, internal standard area performance summaries, target compound identification, laboratory control sample results, laboratory and blind field duplicate sample results, detection limits/sensitivity, and electronic data deliverables.

The analyses were performed acceptably, but require several qualifying statements; it is recommended that the analytical data be used only with the qualifying statements provided below. Any aspects of the data, which are not discussed in this report, should be considered qualitatively and quantitatively valid as reported, based on the deliverables reviewed. A result summary report presenting the validated and qualified results is presented in Attachment I.

SOIL CLEANUP TARGET ACTION LEVEL REGULARTORY LIMITS

All results for samples collected and analyzed the month of February 2008 for VOCs, PAHs, and TPH analyses were less than the action level soil cleanup target level regulatory limits with the exception of the total petroleum results listed below. For VOC and PAH non-detected sample results with reporting limits (RL) that exceeded the action level, the sample results were evaluated to the method detection limit (MDL).

Analyte FL-PRO	Affected Sample	Sample Results (mg/kg)	Groundwater Cleanup Target Levels (mg/kg)
TPH	86SFF137S080213	24000	460
TPH	86SFF1018S080213	860	460
TPH	86SFF1678S080214	2900	460
TPH	86SFF416S080214	3600	460

General Data Qualifiers

As required by United States Environmental Protection Agency protocols, all compounds which were qualitatively identified at concentrations below their respective RLs but above the MDLs have been qualified with "J" qualifiers on the data summary reports to indicate that they are quantitative estimates.

Organic Data Qualifiers

Sample 86SFF137S080213 1,2-dichloroethane-d4 surrogate recovery was below the established quality control (QC) limit for method SW8260B. The total xylene detected result and benzene, toluene, ethylbenzene and methyl-tert-butyl ether non-detected results should be considered biased low estimated as indicated by appending "J" and "UJ" qualifiers respectively to the sample results in the data summary tables.

The 2-fluorobiphenyl surrogate recovery for sample 86SFF1066S080214 was above the established QC limit for TPH by method FL-PRO. The TPH detected result should be considered biased high quantitative estimated as indicated by appending "J" to the sample result in the data summary tables.

The positive results for benzo(g,h,i)perylene, indeno(1,2,3-cd)pyrene, and fluoranthene for sample 86SFF962S080213 by method SW8270C should be considered biased low quantitative estimates and may be higher than reported. The associated recoveries for the client specific matrix spike (MS) and matrix spike duplicate (MSD) samples for benzo(g,h,i)perylene and indeno(1,2,3-cd)pyrene and the MSD recovery for fluoranthene were below the established QC limit for these compounds. The biased low recoveries for these compounds may indicate the possible presence of matrix interferences in samples of similar matrix. This has been indicated by appending a "J" qualifier to the benzo(g,h,i)perylene, indeno(1,2,3-cd)pyrene, and fluoranthene results for the sample 86SFF962S080213 in the data summary tables.

The positive TPH result for sample 86SFF962S080213 should be considered quantitative estimate. The associated MS/MSD relative percent difference (RPD) exceeded the established QC limit. A "J" qualifier has been appended to the detected result in the data summary tables.

Toluene was detected less than the RL for the VOC analysis in two equipment blanks, 86SFFEB2W080212 and 86SFFEB3W080214. Toluene was not detected in the associated field samples therefore, no data were qualified.

The positive TPH results by method FL-PRO reported in the samples listed below are considered quantitative estimates due to the level at which this compound was present in the associated equipment blank, 86SFFEB3W080214. This has been indicated in the data summary tables by applying a "JB" qualifier to the reported values for the samples listed below associated with equipment blank contamination.

Compound	Affected Samples
TPH	86SFFDS080214, 86SFF1462S080214, 86SFFCS080214, 86SFFDUP3S080214, 86SFF1468S080214, 86SFF1062S080214, 86SFF1066S080214, 86SFF1672S080214, 86SFF1678S080214, 86SFF412S080214, 86SFF416S080214

Three blind field duplicate (FD) samples were submitted to the laboratory to evaluate sampling and analytical precision for those target compounds determined to be confidently detected. The following native samples and FD were submitted:

- 86SFF1012S080213 and 86SFFDUP1S080213
- 86SFF1042S080213 and 86SFFDUP2S080213
- 86SFFDS080214 and 86SFFDUP3S080214

All compounds met CCI's duplicate precision criterion of 30% RPD for soil samples for VOC, PAH and TPH analyses with the following exceptions:

Seven PAH compounds exceeded the RPD criterion between native sample 86SFFDS080214 and FD 86SFFDUP3S080214. In addition the RPD criterion was exceeded for TPH results in 86SFF1012S080213 and 86SFFDUP1S080213. A "J" qualifier was appended to the results for the native sand FD samples listed below to indicate that the reported values should be considered quantitative estimates due to the field duplicate RPD exceedances. The RPD was not calculated for the compounds that were not detected in both samples.

Compound	Affected Samples
Benzo(a) anthracene, benzo(b)fluoranthene, benzo(a)pyrene, chrysene, fluoranthene, phenanthrene, and pyrene	86SFFDS080214 and 86SFFDUP3S080214
TPH	86SFF1012S080213 and 86SFFDUP1S080213

The samples presented below were analyzed or re-analyzed at dilutions for the analysis indicated. These dilutions may have resulted in surrogate compounds diluted below the instrument detection limit; therefore surrogate recoveries may not be reported for all diluted analysis. These dilutions were required to prevent saturation of the instrument, to allow quantitation of the compounds within the linear range of the calibration curve, and/or to reduce the effects of the matrix on the target compounds. Positive results for compounds reported above the calibration range in the initial analysis have been reported from the diluted analyses. When possible, results and quantitation limits for all other compounds were reported from the

initial analysis. Higher quantitation limits were reported for specific VOCs and PAHs which were not detected in the diluted sample. This should be noted when assessing these samples for the qualitative absence of specific VOCs and PAHs.

Sample ID	Analysis	Dilution Factor
86SFF7S080212	VOC	5X
86SFF137S080213	VOC	10X
	PAH	5X
	TPH	100X
86SFF1018S080213	TPH	2X
86SFF1678S080214	VOC	10X
	TPH	10X
86SFF416S080214	VOC	10X
	TPH	10X

The undiluted PAH analysis of sample 86SFF137S080213 did not have surrogate or internal standards recovered due to matrix interference. The sample was also analyzed at a five-fold dilution. The undiluted PAH results were unusable due to these quality issues and have been "R" qualified for these sample results in the data summary tables.

Summary

The organic analyses were performed acceptably, but required qualifying statements. This analytical quality assurance report has identified the aspects of the data, which required qualification. These qualifiers are noted on the attached analytical sample summary reports. A support documentation package has been prepared for this quality assurance review and is filed with the Former NAS Cecil Field CTO 86/ post-active remediation monitoring for the South Fuel Farm facility sampling 2008 project file.

Attachment I

VALID QUALIFIERS

QUALIFIER	
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit
J	The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R/UR	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified.
B	The analyte was detected in the associated method and/or calibration blank.
JB	The analyte detected in the associated field, equipment, and/or trip blank.

QUALIFICATION CODE REFERENCE

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect.
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient is <0.995.
K	Second source %D was noncompliant.	Second source %D was noncompliant.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.
MB	Presumed contamination from preparation (method) blank.	Presumed contamination from preparation (method) blank or calibration blank.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or high RPD.	MS/MSD recovery was poor or high RPD.
G	Result is over the calibration range. No other acceptable result was provided.	Result is over the calibration range. Not other acceptable result was provided.
E	Not applicable.	Lab duplicate RPD showed poor agreement.
Z	Field duplicate RPD showed poor agreement.	Field duplicate RPD showed poor agreement
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D was not within control limits.
TN	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
T	Presumed contamination from trip blank.	Not applicable.
+	False positive—reported compound was not present.	Not applicable.
-	False negative—compound was present but not reported.	Not applicable.
F	Presumed contamination from FB or ER.	Presumed contamination from FB or ER.
$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.
D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Confirmation analysis RPD exceeded 40%.	Post Digestion Spike recovery was not within control limits.
T/D	Not applicable.	Total metals results were less than the dissolved metals result.
SD	Not applicable.	Seed correction factor was below the acceptable limit.
M	Results should be considered estimated due to matrix effects caused by saturation of non-target analytes.	Not applicable

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFAS080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02100

Matrix: (soil/water) SOIL Lab Sample ID: 0802100-01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0210001D

Level: (low/med) MED Date Sampled: 02/12/08 13:15

% Moisture: not dec. 11 Date Analyzed: 02/19/08 10:29

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	26	110		U
100-41-4	Ethylbenzene	42	280		U
1634-04-4	Methyl-tert-butyl ether	18	110		U
108-88-3	Toluene	48	280		U
1330-20-7	Xylene(total)	39	280		U

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFBS080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02100

Matrix: (soil/water) SOIL Lab Sample ID: 0802100-02

Sample wt/vol: 5.7 (g/mL) G Lab File ID: 0210002D

Level: (low/med) MED Date Sampled: 02/12/08 13:35

% Moisture: not dec. 17 Date Analyzed: 02/19/08 11:04

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	25	110		U
100-41-4	Ethylbenzene	40	260		U
1634-04-4	Methyl-tert-butyl ether	17	110		U
108-88-3	Toluene	46	260		U
1330-20-7	Xylene(total)	37	260		U

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FORM 1
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CLIENT SAMPLE NO.

86SFF7S080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02100

Matrix: (soil/water) SOIL Lab Sample ID: 0802100-03

Sample wt/vol: 4.4 (g/mL) G Lab File ID: 0210003D

Level: (low/med) MED Date Sampled: 02/12/08 13:50

% Moisture: not dec. 11 Date Analyzed: 02/19/08 18:38

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 5.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	150	640		UØ
100-41-4	Ethylbenzene	240	1600		UØ
1634-04-4	Methyl-tert-butyl ether	100	640		UØ
108-88-3	Toluene	280	1600		UØ
1330-20-7	Xylene(total)	220	1600		UØ

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CLIENT SAMPLE NO.

86SFF31S080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02100

Matrix: (soil/water) SOIL Lab Sample ID: 0802100-04

Sample wt/vol: 6.7 (g/mL) G Lab File ID: 0210004D

Level: (low/med) MED Date Sampled: 02/12/08 14:10

% Moisture: not dec. 20 Date Analyzed: 02/19/08 11:39

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	22	94		U
100-41-4	Ethylbenzene	35	230		U
1634-04-4	Methyl-tert-butyl ether	15	94		U
108-88-3	Toluene	40	230		U
1330-20-7	Xylene(total)	33	230		U

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CLIENT SAMPLE NO.

86SFF70S080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02100

Matrix: (soil/water) SOIL Lab Sample ID: 0802100-05

Sample wt/vol: 6.6 (g/mL) G Lab File ID: 0210005D

Level: (low/med) MED Date Sampled: 02/12/08 14:30

% Moisture: not dec. 14 Date Analyzed: 02/21/08 12:30

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	21	88		U
100-41-4	Ethylbenzene	33	220		U
1634-04-4	Methyl-tert-butyl ether	14	88		U
108-88-3	Toluene	38	220		U
1330-20-7	Xylene(total)	31	220		U

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CLIENT SAMPLE NO.

86SFF99S080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02100

Matrix: (soil/water) SOIL Lab Sample ID: 0802100-06

Sample wt/vol: 5.7 (g/mL) G Lab File ID: 0210006D

Level: (low/med) MED Date Sampled: 02/12/08 15:10

% Moisture: not dec. 12 Date Analyzed: 02/19/08 12:48

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	23	100		U
100-41-4	Ethylbenzene	37	250		U
1634-04-4	Methyl-tert-butyl ether	16	100		U
108-88-3	Toluene	43	250		U
1330-20-7	Xylene(total)	35	250		U

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF189S080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02100

Matrix: (soil/water) SOIL Lab Sample ID: 0802100-07

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 0210007D

Level: (low/med) MED Date Sampled: 02/12/08 15:45

% Moisture: not dec. 6 Date Analyzed: 02/19/08 13:23

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	24	100		U
100-41-4	Ethylbenzene	39	260		U
1634-04-4	Methyl-tert-butyl ether	17	100		U
108-88-3	Toluene	45	260		U
1330-20-7	Xylene(total)	36	260		U

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FORM 1
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CLIENT SAMPLE NO.

86SFFEB1W080207

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02100

Matrix: (soil/water) WATER Lab Sample ID: 0802100-08

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0210008

Level: (low/med) LOW Date Sampled: 02/07/08 10:30

% Moisture: not dec. _____ Date Analyzed: 02/14/08 18:21

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	2.0		U
100-41-4	Ethylbenzene	0.35	5.0		U
1634-04-4	Methyl-tert-butyl ether	0.10	2.0		U
108-88-3	Toluene	0.16	5.0		U
1330-20-7	Xylene (total)	0.47	5.0		U

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CLIENT SAMPLE NO.

86SFFEB2W080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02100

Matrix: (soil/water) WATER Lab Sample ID: 0802100-09

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0210009

Level: (low/med) LOW Date Sampled: 02/12/08 09:30

% Moisture: not dec. _____ Date Analyzed: 02/14/08 17:22

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	2.0		U
100-41-4	Ethylbenzene	0.35	5.0		U
1634-04-4	Methyl-tert-butyl ether	0.10	2.0		U
108-88-3	Toluene	0.16	5.0	0.66	J
1330-20-7	Xylene(total)	0.47	5.0		U

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB5456

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02100

Matrix: (soil/water) WATER Lab Sample ID: 0802100-10

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0210010

Level: (low/med) LOW Date Sampled: 02/12/08 :

% Moisture: not dec. _____ Date Analyzed: 02/14/08 16:53

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	2.0		U
100-41-4	Ethylbenzene	0.35	5.0		U
1634-04-4	Methyl-tert-butyl ether	0.10	2.0		U
108-88-3	Toluene	0.16	5.0		U
1330-20-7	Xylene(total)	0.47	5.0		U

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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFAS080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02100

Matrix: (soil/water) SOIL Lab Sample ID: 0802100-01

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0210001

% Moisture: 11 decanted: (Y/N) N Date Sampled: 02/12/08 13:15

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 02/15/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/15/08 12:33

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	15	190		U
208-96-8	Acenaphthylene	11	190		U
120-12-7	Anthracene	15	190		U
56-55-3	Benzo(a)anthracene	20	190		U
205-99-2	Benzo(b)fluoranthene	18	190		U
207-08-9	Benzo(k)fluoranthene	22	190		U
191-24-2	Benzo(g,h,i)perylene	39	190		U
50-32-8	Benzo(a)pyrene	13	93		U
218-01-9	Chrysene	17	190		U
53-70-3	Dibenz(a,h)anthracene	34	93		U
206-44-0	Fluoranthene	30	190		U
86-73-7	Fluorene	14	190		U
193-39-5	Indeno(1,2,3-cd)pyrene	26	190		U
90-12-0	1-Methylnaphthalene	56	190		U
91-57-6	2-Methylnaphthalene	19	190		U
91-20-3	Naphthalene	18	190		U
85-01-8	Phenanthrene	13	190		U
129-00-0	Pyrene	22	190		U

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Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFBS080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02100

Matrix: (soil/water) SOIL Lab Sample ID: 0802100-02

Sample wt/vol: 15.6 (g/mL) G Lab File ID: 0210002

% Moisture: 17 decanted: (Y/N) N Date Sampled: 02/12/08 13:35

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 02/15/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/15/08 13:09

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	15	190		U
208-96-8	Acenaphthylene	11	190		U
120-12-7	Anthracene	16	190		U
56-55-3	Benzo(a)anthracene	21	190		U
205-99-2	Benzo(b)fluoranthene	18	190		U
207-08-9	Benzo(k)fluoranthene	23	190		U
191-24-2	Benzo(g,h,i)perylene	41	190		U
50-32-8	Benzo(a)pyrene	13	97		U
218-01-9	Chrysene	18	190		U
53-70-3	Dibenz(a,h)anthracene	35	97		U
206-44-0	Fluoranthene	31	190		U
86-73-7	Fluorene	15	190		U
193-39-5	Indeno(1,2,3-cd)pyrene	27	190		U
90-12-0	1-Methylnaphthalene	58	190		U
91-57-6	2-Methylnaphthalene	20	190		U
91-20-3	Naphthalene	19	190		U
85-01-8	Phenanthrene	13	190		U
129-00-0	Pyrene	23	190		U

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Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF7S080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02100

Matrix: (soil/water) SOIL Lab Sample ID: 0802100-03

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0210003

% Moisture: 11 decanted: (Y/N) N Date Sampled: 02/12/08 13:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 02/15/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/15/08 13:45

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	15	180		U
208-96-8	Acenaphthylene	11	180		U
120-12-7	Anthracene	15	180		U
56-55-3	Benzo(a)anthracene	20	180		U
205-99-2	Benzo(b)fluoranthene	18	180		U
207-08-9	Benzo(k)fluoranthene	22	180		U
191-24-2	Benzo(g,h,i)perylene	39	180		U
50-32-8	Benzo(a)pyrene	13	93		U
218-01-9	Chrysene	17	180		U
53-70-3	Dibenz(a,h)anthracene	33	93		U
206-44-0	Fluoranthene	30	180		U
86-73-7	Fluorene	14	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	26	180		U
90-12-0	1-Methylnaphthalene	56	180		U
91-57-6	2-Methylnaphthalene	19	180		U
91-20-3	Naphthalene	18	180		U
85-01-8	Phenanthrene	13	180		U
129-00-0	Pyrene	22	180		U

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Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF31S080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02100

Matrix: (soil/water) SOIL Lab Sample ID: 0802100-04

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0210004

% Moisture: 20 decanted: (Y/N) N Date Sampled: 02/12/08 14:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 02/15/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/15/08 14:22

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	16	210		U
208-96-8	Acenaphthylene	12	210		U
120-12-7	Anthracene	17	210		U
56-55-3	Benzo(a)anthracene	22	210		U
205-99-2	Benzo(b)fluoranthene	20	210		U
207-08-9	Benzo(k)fluoranthene	24	210		U
191-24-2	Benzo(g,h,i)perylene	44	210		U
50-32-8	Benzo(a)pyrene	14	100		U
218-01-9	Chrysene	19	210		U
53-70-3	Dibenz(a,h)anthracene	37	100		U
206-44-0	Fluoranthene	33	210		U
86-73-7	Fluorene	16	210		U
193-39-5	Indeno(1,2,3-cd)pyrene	28	210		U
90-12-0	1-Methylnaphthalene	62	210		U
91-57-6	2-Methylnaphthalene	22	210		U
91-20-3	Naphthalene	20	210		U
85-01-8	Phenanthrene	14	210		U
129-00-0	Pyrene	25	210		U

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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF70S080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02100

Matrix: (soil/water) SOIL Lab Sample ID: 0802100-05

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0210005

% Moisture: 14 decanted: (Y/N) N Date Sampled: 02/12/08 14:30

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 02/15/08

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 02/15/08 14:58

Injection Volume: 0.5 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	15	190		U
208-96-8	Acenaphthylene	11	190		U
120-12-7	Anthracene	16	190		U
56-55-3	Benzo(a)anthracene	21	190		U
205-99-2	Benzo(b)fluoranthene	18	190		U
207-08-9	Benzo(k)fluoranthene	22	190		U
191-24-2	Benzo(g,h,i)perylene	40	190		U
50-32-8	Benzo(a)pyrene	13	96		U
218-01-9	Chrysene	18	190		U
53-70-3	Dibenz(a,h)anthracene	34	96		U
206-44-0	Fluoranthene	31	190		U
86-73-7	Fluorene	15	190		U
193-39-5	Indeno(1,2,3-cd)pyrene	26	190		U
90-12-0	1-Methylnaphthalene	57	190		U
91-57-6	2-Methylnaphthalene	20	190		U
91-20-3	Naphthalene	19	190		U
85-01-8	Phenanthrene	13	190		U
129-00-0	Pyrene	23	190		U

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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF99S080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02100

Matrix: (soil/water) SOIL Lab Sample ID: 0802100-06

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0210006

% Moisture: 12 decanted: (Y/N) N Date Sampled: 02/12/08 15:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:02/15/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/15/08 15:34

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	15	190		U
208-96-8	Acenaphthylene	11	190		U
120-12-7	Anthracene	15	190		U
56-55-3	Benzo(a)anthracene	20	190		U
205-99-2	Benzo(b)fluoranthene	18	190		U
207-08-9	Benzo(k)fluoranthene	22	190		U
191-24-2	Benzo(g,h,i)perylene	40	190		U
50-32-8	Benzo(a)pyrene	13	94		U
218-01-9	Chrysene	17	190	23	J
53-70-3	Dibenz(a,h)anthracene	34	94		U
206-44-0	Fluoranthene	30	190		U
86-73-7	Fluorene	15	190		U
193-39-5	Indeno(1,2,3-cd)pyrene	26	190		U
90-12-0	1-Methylnaphthalene	56	190		U
91-57-6	2-Methylnaphthalene	20	190		U
91-20-3	Naphthalene	18	190		U
85-01-8	Phenanthrene	13	190		U
129-00-0	Pyrene	22	190		U

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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF189S080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02100

Matrix: (soil/water) SOIL Lab Sample ID: 0802100-07

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0210007R

% Moisture: 6 decanted: (Y/N) N Date Sampled: 02/12/08 15:45

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 02/15/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/19/08 09:40

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	14	180		U
208-96-8	Acenaphthylene	10	180		U
120-12-7	Anthracene	14	180		U
56-55-3	Benzo(a)anthracene	19	180		U
205-99-2	Benzo(b)fluoranthene	16	180		U
207-08-9	Benzo(k)fluoranthene	21	180		U
191-24-2	Benzo(g,h,i)perylene	37	180		U
50-32-8	Benzo(a)pyrene	12	88		U
218-01-9	Chrysene	16	180		U
53-70-3	Dibenz(a,h)anthracene	32	88		U
206-44-0	Fluoranthene	28	180		U
86-73-7	Fluorene	14	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	24	180		U
90-12-0	1-Methylnaphthalene	53	180		U
91-57-6	2-Methylnaphthalene	18	180		U
91-20-3	Naphthalene	17	180		U
85-01-8	Phenanthrene	12	180		U
129-00-0	Pyrene	21	180		U

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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFEB1W080207

Lab Name: EMPIRICAL LABS Contract: CH2MHILL CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02100

Matrix: (soil/water) WATER Lab Sample ID: 0802100-08

Sample wt/vol: 1040 (g/mL) ML Lab File ID: 0210008

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/07/08 10:30

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/15/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/15/08 09:33

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.30	2.4		U
208-96-8	Acenaphthylene	0.22	2.4		U
120-12-7	Anthracene	0.37	2.4		U
56-55-3	Benzo(a)anthracene	0.44	2.4		U
205-99-2	Benzo(b)fluoranthene	0.34	2.4		U
207-08-9	Benzo(k)fluoranthene	0.24	2.4		U
191-24-2	Benzo(g,h,i)perylene	0.70	2.4		U
50-32-8	Benzo(a)pyrene	0.29	1.2		U
218-01-9	Chrysene	0.48	2.4		U
53-70-3	Dibenz(a,h)anthracene	0.82	1.2		U
206-44-0	Fluoranthene	0.34	2.4		U
86-73-7	Fluorene	0.26	2.4		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.68	2.4		U
90-12-0	1-Methylnaphthalene	0.48	2.4		U
91-57-6	2-Methylnaphthalene	0.33	2.4		U
91-20-3	Naphthalene	0.22	2.4		U
85-01-8	Phenanthrene	0.37	2.4		U
129-00-0	Pyrene	0.31	2.4		U

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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFEB2W080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02100

Matrix: (soil/water) WATER Lab Sample ID: 0802100-09

Sample wt/vol: 1070 (g/mL) ML Lab File ID: 0210009

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/12/08 09:30

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted: 02/15/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/15/08 10:09

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.29	2.3		U
208-96-8	Acenaphthylene	0.22	2.3		U
120-12-7	Anthracene	0.36	2.3		U
56-55-3	Benzo(a)anthracene	0.42	2.3		U
205-99-2	Benzo(b)fluoranthene	0.33	2.3		U
207-08-9	Benzo(k)fluoranthene	0.23	2.3		U
191-24-2	Benzo(g,h,i)perylene	0.68	2.3		U
50-32-8	Benzo(a)pyrene	0.28	1.2		U
218-01-9	Chrysene	0.47	2.3		U
53-70-3	Dibenz(a,h)anthracene	0.79	1.2		U
206-44-0	Fluoranthene	0.33	2.3		U
86-73-7	Fluorene	0.26	2.3		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.66	2.3		U
90-12-0	1-Methylnaphthalene	0.47	2.3		U
91-57-6	2-Methylnaphthalene	0.32	2.3		U
91-20-3	Naphthalene	0.21	2.3		U
85-01-8	Phenanthrene	0.36	2.3		U
129-00-0	Pyrene	0.30	2.3		U

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFAS080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02100

Matrix: (soil/water) SOIL Lab Sample ID: 0802100-01

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 020R0201

% Moisture: 11 decanted: (Y/N) N Date Sampled: 02/12/08 13:15

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/14/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/21/08 03:51

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	7.6	22	12	J

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFBS080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02100

Matrix: (soil/water) SOIL Lab Sample ID: 0802100-02

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 021R0201

% Moisture: 17 decanted: (Y/N) N Date Sampled: 02/12/08 13:35

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/14/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/21/08 04:35

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	8.2	24	11	J

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF7S080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02100

Matrix: (soil/water) SOIL Lab Sample ID: 0802100-03

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 024R0201

% Moisture: 11 decanted: (Y/N) N Date Sampled: 02/12/08 13:50

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/14/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/21/08 06:45

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	7.6	22	39	

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF31S080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02100

Matrix: (soil/water) SOIL Lab Sample ID: 0802100-04

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 025R0201

% Moisture: 20 decanted: (Y/N) N Date Sampled: 02/12/08 14:10

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/14/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/21/08 07:29

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	8.5	25	10	J

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CLIENT SAMPLE NO.

86SFF70S080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02100

Matrix: (soil/water) SOIL Lab Sample ID: 0802100-05

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 026R0201

% Moisture: 14 decanted: (Y/N) N Date Sampled: 02/12/08 14:30

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/14/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/21/08 08:12

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	7.8	23	14	J

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PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF99S080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02100

Matrix: (soil/water) SOIL Lab Sample ID: 0802100-06

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 027R0201

% Moisture: 12 decanted: (Y/N) N Date Sampled: 02/12/08 15:10

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/14/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/21/08 08:56

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	7.6	22	65	

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF189S080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02100

Matrix: (soil/water) SOIL Lab Sample ID: 0802100-07

Sample wt/vol: 25.3 (g/mL) G Lab File ID: 028R0201

% Moisture: 6 decanted: (Y/N) N Date Sampled: 02/12/08 15:45

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/14/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/21/08 09:40

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	7.1	21	7.6	J

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFEB1W080207

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02100

Matrix: (soil/water) WATER Lab Sample ID: 0802100-08

Sample wt/vol: 1020 (g/mL) ML Lab File ID: 015R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/07/08 10:30

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/14/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/21/08 00:13

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.17	0.49		U

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFEB2W080212

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02100

Matrix: (soil/water) WATER Lab Sample ID: 0802100-09

Sample wt/vol: 1040 (g/mL) ML Lab File ID: 016R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/12/08 09:30

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/14/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/21/08 00:57

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.16	0.48		U

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Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF137S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 211701D3

Level: (low/med) MED Date Sampled: 02/13/08 09:25

% Moisture: not dec. 13 Date Analyzed: 02/27/08 14:41

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	270	1100		~~U~~ UJ
100-41-4	Ethylbenzene	430	2800		~~U~~ UJ
1634-04-4	Methyl-tert-butyl ether	180	1100		~~U~~ UJ
108-88-3	Toluene	490	2800		~~U~~ UJ
1330-20-7	Xylene(total)	400	2800	1700	~~U~~ J

qualification code: S

FORM I VOA

Empirical Laboratories

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4-7-08

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF110S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-02

Sample wt/vol: 5.5 (g/mL) G Lab File ID: 0211702D

Level: (low/med) MED Date Sampled: 02/13/08 10:00

% Moisture: not dec. 9 Date Analyzed: 02/19/08 13:58

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	23	99		U
100-41-4	Ethylbenzene	37	250		U
1634-04-4	Methyl-tert-butyl ether	16	99		U
108-88-3	Toluene	43	250		U
1330-20-7	Xylene(total)	35	250		U

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4-9-08

Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF158S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-03

Sample wt/vol: 4.3 (g/mL) G Lab File ID: 0211703D

Level: (low/med) MED Date Sampled: 02/13/08 10:30

% Moisture: not dec. 5 Date Analyzed: 02/19/08 14:33

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	28	120		U
100-41-4	Ethylbenzene	45	300		U
1634-04-4	Methyl-tert-butyl ether	19	120		U
108-88-3	Toluene	52	300		U
1330-20-7	Xylene(total)	42	300		U

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FORM 1
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CLIENT SAMPLE NO.

86SFF101
2S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-04

Sample wt/vol: 5.3 (g/mL) G Lab File ID: 0211704D

Level: (low/med) MED Date Sampled: 02/13/08 13:20

% Moisture: not dec. 10 Date Analyzed: 02/19/08 15:08

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	24	100		U
100-41-4	Ethylbenzene	39	260		U
1634-04-4	Methyl-tert-butyl ether	17	100		U
108-88-3	Toluene	45	260		U
1330-20-7	Xylene(total)	37	260		U

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CLIENT SAMPLE NO.

86SFF101
8S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-05

Sample wt/vol: 4.6 (g/mL) G Lab File ID: 0211705D

Level: (low/med) MED Date Sampled: 02/13/08 15:20

% Moisture: not dec. 15 Date Analyzed: 02/19/08 15:43

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	30	130		U
100-41-4	Ethylbenzene	48	320		U
1634-04-4	Methyl-tert-butyl ether	20	130		U
108-88-3	Toluene	55	320		U
1330-20-7	Xylene(total)	45	320		U

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Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF962S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-06

Sample wt/vol: 4.5 (g/mL) G Lab File ID: 0211706D

Level: (low/med) MED Date Sampled: 02/13/08 16:10

% Moisture: not dec. 5 Date Analyzed: 02/19/08 16:18

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	28	120		U
100-41-4	Ethylbenzene	44	290		U
1634-04-4	Methyl-tert-butyl ether	19	120		U
108-88-3	Toluene	50	290		U
1330-20-7	Xylene(total)	41	290		U

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF964S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-07

Sample wt/vol: 4.9 (g/mL) G Lab File ID: 0211707D

Level: (low/med) MED Date Sampled: 02/13/08 16:25

% Moisture: not dec. 7 Date Analyzed: 02/19/08 16:53

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	26	110		U
100-41-4	Ethylbenzene	41	270		U
1634-04-4	Methyl-tert-butyl ether	17	110		U
108-88-3	Toluene	47	270		U
1330-20-7	Xylene(total)	38	270		U

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF104
2S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-08

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0211708D

Level: (low/med) MED Date Sampled: 02/13/08 16:40

% Moisture: not dec. 9 Date Analyzed: 02/19/08 17:28

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	26	110		U
100-41-4	Ethylbenzene	41	270		U
1634-04-4	Methyl-tert-butyl ether	17	110		U
108-88-3	Toluene	47	270		U
1330-20-7	Xylene(total)	38	270		U

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FORM 1
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CLIENT SAMPLE NO.

86SFFDUP
1S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-09

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0211709D

Level: (low/med) MED Date Sampled: 02/13/08 :

% Moisture: not dec. 10 Date Analyzed: 02/19/08 18:03

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	26	110		U
100-41-4	Ethylbenzene	42	280		U
1634-04-4	Methyl-tert-butyl ether	18	110		U
108-88-3	Toluene	48	280		U
1330-20-7	Xylene(total)	39	280		U

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CLIENT SAMPLE NO.

86SFF104
8S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-10

Sample wt/vol: 4.6 (g/mL) G Lab File ID: 0211710D

Level: (low/med) MED Date Sampled: 02/13/08 17:00

% Moisture: not dec. 13 Date Analyzed: 02/19/08 23:47

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	30	130		U
100-41-4	Ethylbenzene	47	320		U
1634-04-4	Methyl-tert-butyl ether	20	130		U
108-88-3	Toluene	54	320		U
1330-20-7	Xylene(total)	44	320		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFDUP
2S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-11

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0211711D

Level: (low/med) MED Date Sampled: 02/13/08 :

% Moisture: not dec. 9 Date Analyzed: 02/20/08 00:22

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	26	110		U
100-41-4	Ethylbenzene	41	270		U
1634-04-4	Methyl-tert-butyl ether	18	110		U
108-88-3	Toluene	47	270		U
1330-20-7	Xylene(total)	38	270		U

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFDS080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-12

Sample wt/vol: 4.8 (g/mL) G Lab File ID: 0211712D

Level: (low/med) MED Date Sampled: 02/14/08 09:15

% Moisture: not dec. 8 Date Analyzed: 02/20/08 00:57

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	27	110		U
100-41-4	Ethylbenzene	43	290		U
1634-04-4	Methyl-tert-butyl ether	18	110		U
108-88-3	Toluene	49	290		U
1330-20-7	Xylene(total)	40	290		U

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF146
2S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-13

Sample wt/vol: 4.5 (g/mL) G Lab File ID: 0211713D

Level: (low/med) MED Date Sampled: 02/14/08 10:40

% Moisture: not dec. 9 Date Analyzed: 02/20/08 01:32

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	28	120		U
100-41-4	Ethylbenzene	45	300		U
1634-04-4	Methyl-tert-butyl ether	19	120		U
108-88-3	Toluene	52	300		U
1330-20-7	Xylene(total)	42	300		U

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFCS080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-14

Sample wt/vol: 4.8 (g/mL) G Lab File ID: 0211714D

Level: (low/med) MED Date Sampled: 02/14/08 09:30

% Moisture: not dec. 13 Date Analyzed: 02/20/08 02:07

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	28	120		U
100-41-4	Ethylbenzene	45	300		U
1634-04-4	Methyl-tert-butyl ether	19	120		U
108-88-3	Toluene	52	300		U
1330-20-7	Xylene(total)	42	300		U

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFDUP
3S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-15

Sample wt/vol: 4.5 (g/mL) G Lab File ID: 0211715D

Level: (low/med) MED Date Sampled: 02/14/08 :

% Moisture: not dec. 10 Date Analyzed: 02/20/08 02:42

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	29	120		U
100-41-4	Ethylbenzene	46	310		U
1634-04-4	Methyl-tert-butyl ether	20	120		U
108-88-3	Toluene	53	310		U
1330-20-7	Xylene(total)	43	310		U

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF146
8S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-16

Sample wt/vol: 6.2 (g/mL) G Lab File ID: 0211716D

Level: (low/med) MED Date Sampled: 02/14/08 11:00

% Moisture: not dec. 23 Date Analyzed: 02/20/08 03:17

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	24	100		U
100-41-4	Ethylbenzene	39	260		U
1634-04-4	Methyl-tert-butyl ether	16	100		U
108-88-3	Toluene	44	260		U
1330-20-7	Xylene(total)	36	260		U

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
TRO 4-7-08

86SFF1EB
3W080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) WATER Lab Sample ID: 0802117-17

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0211717

Level: (low/med) LOW Date Sampled: 02/14/08 11:20

% Moisture: not dec. _____ Date Analyzed: 02/21/08 16:56

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	2.0		U
100-41-4	Ethylbenzene	0.35	5.0		U
1634-04-4	Methyl-tert-butyl ether	0.10	2.0		U
108-88-3	Toluene	0.16	5.0	0.41	J
1330-20-7	Xylene(total)	0.47	5.0		U

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FORM 1
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CLIENT SAMPLE NO.

86SFF106
2S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-18

Sample wt/vol: 5.4 (g/mL) G Lab File ID: 0211718D

Level: (low/med) MED Date Sampled: 02/14/08 14:50

% Moisture: not dec. 9 Date Analyzed: 02/20/08 03:52

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	24	100		U
100-41-4	Ethylbenzene	38	250		U
1634-04-4	Methyl-tert-butyl ether	16	100		U
108-88-3	Toluene	44	250		U
1330-20-7	Xylene(total)	36	250		U

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF106
6S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-19

Sample wt/vol: 5.6 (g/mL) G Lab File ID: 0211719D

Level: (low/med) MED Date Sampled: 02/14/08 15:00

% Moisture: not dec. 12 Date Analyzed: 02/20/08 04:27

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	24	100		U
100-41-4	Ethylbenzene	38	250		U
1634-04-4	Methyl-tert-butyl ether	16	100		U
108-88-3	Toluene	44	250		U
1330-20-7	Xylene(total)	36	250		U

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF167
2S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-20

Sample wt/vol: 4.7 (g/mL) G Lab File ID: 0211720D

Level: (low/med) MED Date Sampled: 02/14/08 15:10

% Moisture: not dec. 8 Date Analyzed: 02/20/08 05:02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	27	120		U
100-41-4	Ethylbenzene	44	290		U
1634-04-4	Methyl-tert-butyl ether	19	120		U
108-88-3	Toluene	50	290		U
1330-20-7	Xylene(total)	41	290		U

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF167
8S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-21

Sample wt/vol: 6.0 (g/mL) G Lab File ID: 0211721D

Level: (low/med) MED Date Sampled: 02/14/08 15:30

% Moisture: not dec. 15 Date Analyzed: 02/20/08 06:12

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	230	980		UJ
100-41-4	Ethylbenzene	370	2400		UJ
1634-04-4	Methyl-tert-butyl ether	160	980		UJ
108-88-3	Toluene	420	2400		UJ
1330-20-7	Xylene(total)	340	2400		UJ

TJS 4-9-08

FORM I VOA

Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF412S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-22

Sample wt/vol: 3.7 (g/mL) G Lab File ID: 0211722D

Level: (low/med) MED Date Sampled: 02/14/08 15:40

% Moisture: not dec. 12 Date Analyzed: 02/20/08 05:37

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	36	150		U
100-41-4	Ethylbenzene	57	380		U
1634-04-4	Methyl-tert-butyl ether	24	150		U
108-88-3	Toluene	66	380		U
1330-20-7	Xylene(total)	54	380		U

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF416S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-23

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0211723D

Level: (low/med) MED Date Sampled: 02/14/08 15:50

% Moisture: not dec. 16 Date Analyzed: 02/20/08 06:47

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	280	1200		U~~D~~
100-41-4	Ethylbenzene	450	3000		U~~D~~
1634-04-4	Methyl-tert-butyl ether	190	1200		U~~D~~
108-88-3	Toluene	520	3000		U~~D~~
1330-20-7	Xylene(total)	420	3000		U~~D~~

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FORM I VOA

Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB5453

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) WATER Lab Sample ID: 0802117-24

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0211724

Level: (low/med) LOW Date Sampled: 02/14/08 :

% Moisture: not dec. _____ Date Analyzed: 02/19/08 12:51

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	2.0		U
100-41-4	Ethylbenzene	0.35	5.0		U
1634-04-4	Methyl-tert-butyl ether	0.10	2.0		U
108-88-3	Toluene	0.16	5.0		U
1330-20-7	Xylene(total)	0.47	5.0		U

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB5454

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) WATER Lab Sample ID: 0802117-25

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0211725

Level: (low/med) LOW Date Sampled: 02/14/08 :

% Moisture: not dec. _____ Date Analyzed: 02/19/08 13:21

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	2.0		U
100-41-4	Ethylbenzene	0.35	5.0		U
1634-04-4	Methyl-tert-butyl ether	0.10	2.0		U
108-88-3	Toluene	0.16	5.0		U
1330-20-7	Xylene(total)	0.47	5.0		U

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FORM 1
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CLIENT SAMPLE NO.

TB5455

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02117

Matrix: (soil/water) WATER Lab Sample ID: 0802117-26

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0211726

Level: (low/med) LOW Date Sampled: 02/14/08 :

% Moisture: not dec. _____ Date Analyzed: 02/19/08 13:51

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	2.0		U
100-41-4	Ethylbenzene	0.35	5.0		U
1634-04-4	Methyl-tert-butyl ether	0.10	2.0		U
108-88-3	Toluene	0.16	5.0		U
1330-20-7	Xylene(total)	0.47	5.0		U

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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF137S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-01

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0211701

% Moisture: 13 decanted: (Y/N) N Date Sampled: 02/13/08 09:25

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 02/19/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/20/08 09:59

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
				Qualifier	
83-32-9	Acenaphthene	15	190	UR	UM
208-96-8	Acenaphthylene	11	190		UM
120-12-7	Anthracene	16	190		UM
56-55-3	Benzo(a)anthracene	21	190		U
205-99-2	Benzo(b)fluoranthene	18	190		U
207-08-9	Benzo(k)fluoranthene	22	190		U
191-24-2	Benzo(g,h,i)perylene	40	190		U
50-32-8	Benzo(a)pyrene	13	95		U
218-01-9	Chrysene	18	190	R 160	J
53-70-3	Dibenz(a,h)anthracene	34	95	UR	U
206-44-0	Fluoranthene	31	190		UM
86-73-7	Fluorene	15	190		UM
193-39-5	Indeno(1,2,3-cd)pyrene	26	190		U
90-12-0	1-Methylnaphthalene	57	190		U
91-57-6	2-Methylnaphthalene	20	190		U
91-20-3	Naphthalene	18	190		U
85-01-8	Phenanthrene	13	190		UM
129-00-0	Pyrene	23	190		UM

M = see narrative.

2/28/08

qualification codes: S and I

T&S 4-7-08

FORM I SV

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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF137
S080213DL

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-01DL

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0211701D

% Moisture: 13 decanted: (Y/N) N Date Sampled: 02/13/08 09:25

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:02/19/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/20/08 14:11

Injection Volume: 0.5(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	76	950		UØ
208-96-8	Acenaphthylene	56	950		UØ
120-12-7	Anthracene	78	950		UØ
56-55-3	Benzo(a)anthracene	100	950		UØ
205-99-2	Benzo(b)fluoranthene	90	950		UØ
207-08-9	Benzo(k)fluoranthene	110	950		UØ
191-24-2	Benzo(g,h,i)perylene	200	950		UØ
50-32-8	Benzo(a)pyrene	66	480		UØ
218-01-9	Chrysene	88	950	160	JØ
53-70-3	Dibenz(a,h)anthracene	170	480		UØ
206-44-0	Fluoranthene	150	950		UØ
86-73-7	Fluorene	75	950		UØ
193-39-5	Indeno(1,2,3-cd)pyrene	130	950		UØ
90-12-0	1-Methylnaphthalene	290	950		UØ
91-57-6	2-Methylnaphthalene	100	950		UØ
91-20-3	Naphthalene	93	950		UØ
85-01-8	Phenanthrene	65	950		UØ
129-00-0	Pyrene	110	950	660	JØ

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FORM I SV

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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF110S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-02

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0211702

% Moisture: 9 decanted: (Y/N) N Date Sampled: 02/13/08 10:00

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 02/19/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/20/08 10:35

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	14	180		U
208-96-8	Acenaphthylene	11	180		U
120-12-7	Anthracene	15	180		U
56-55-3	Benzo(a)anthracene	20	180		U
205-99-2	Benzo(b)fluoranthene	17	180		U
207-08-9	Benzo(k)fluoranthene	22	180		U
191-24-2	Benzo(g,h,i)perylene	39	180		U
50-32-8	Benzo(a)pyrene	12	92		U
218-01-9	Chrysene	17	180		U
53-70-3	Dibenz(a,h)anthracene	33	92		U
206-44-0	Fluoranthene	29	180		U
86-73-7	Fluorene	14	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	25	180		U
90-12-0	1-Methylnaphthalene	55	180		U
91-57-6	2-Methylnaphthalene	19	180		U
91-20-3	Naphthalene	18	180		U
85-01-8	Phenanthrene	12	180		U
129-00-0	Pyrene	22	180		U

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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF158S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-03

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0211703

% Moisture: 5 decanted: (Y/N) N Date Sampled: 02/13/08 10:30

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:02/19/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/20/08 17:47

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	14	180		U
208-96-8	Acenaphthylene	10	180		U
120-12-7	Anthracene	14	180		U
56-55-3	Benzo(a)anthracene	19	180		U
205-99-2	Benzo(b)fluoranthene	16	180	45	J
207-08-9	Benzo(k)fluoranthene	21	180		U
191-24-2	Benzo(g,h,i)perylene	37	180		U
50-32-8	Benzo(a)pyrene	12	88	36	J
218-01-9	Chrysene	16	180	17	J
53-70-3	Dibenz(a,h)anthracene	32	88		U
206-44-0	Fluoranthene	28	180		U
86-73-7	Fluorene	14	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	24	180		U
90-12-0	1-Methylnaphthalene	52	180		U
91-57-6	2-Methylnaphthalene	18	180		U
91-20-3	Naphthalene	17	180		U
85-01-8	Phenanthrene	12	180	15	J
129-00-0	Pyrene	21	180		U

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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
86SFF101
2S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-04

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0211704

% Moisture: 10 decanted: (Y/N) N Date Sampled: 02/13/08 13:20

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:02/19/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/21/08 03:14

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	14	180		U
208-96-8	Acenaphthylene	11	180		U
120-12-7	Anthracene	15	180		U
56-55-3	Benzo(a)anthracene	20	180		U
205-99-2	Benzo(b)fluoranthene	17	180		U
207-08-9	Benzo(k)fluoranthene	21	180		U
191-24-2	Benzo(g,h,i)perylene	38	180		U
50-32-8	Benzo(a)pyrene	12	91		U
218-01-9	Chrysene	17	180		U
53-70-3	Dibenz(a,h)anthracene	33	91		U
206-44-0	Fluoranthene	29	180		U
86-73-7	Fluorene	14	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	25	180		U
90-12-0	1-Methylnaphthalene	55	180		U
91-57-6	2-Methylnaphthalene	19	180		U
91-20-3	Naphthalene	18	180		U
85-01-8	Phenanthrene	12	180		U
129-00-0	Pyrene	22	180		U

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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF101
8S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-05

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0211705

% Moisture: 15 decanted: (Y/N) N Date Sampled: 02/13/08 15:20

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 02/19/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/20/08 18:23

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	15	200		U
208-96-8	Acenaphthylene	11	200		U
120-12-7	Anthracene	16	200		U
56-55-3	Benzo(a)anthracene	21	200		U
205-99-2	Benzo(b)fluoranthene	18	200		U
207-08-9	Benzo(k)fluoranthene	23	200		U
191-24-2	Benzo(g,h,i)perylene	41	200		U
50-32-8	Benzo(a)pyrene	13	98		U
218-01-9	Chrysene	18	200		U
53-70-3	Dibenz(a,h)anthracene	35	98		U
206-44-0	Fluoranthene	31	200		U
86-73-7	Fluorene	15	200		U
193-39-5	Indeno(1,2,3-cd)pyrene	27	200		U
90-12-0	1-Methylnaphthalene	58	200		U
91-57-6	2-Methylnaphthalene	20	200		U
91-20-3	Naphthalene	19	200		U
85-01-8	Phenanthrene	13	200		U
129-00-0	Pyrene	23	200		U

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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF962S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-06

Sample wt/vol: 15.3 (g/mL) G Lab File ID: 0211706

% Moisture: 5 decanted: (Y/N) N Date Sampled: 02/13/08 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:02/19/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/21/08 06:31

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	14	170		U
208-96-8	Acenaphthylene	10	170	18	J
120-12-7	Anthracene	14	170		U
56-55-3	Benzo(a)anthracene	19	170	260	
205-99-2	Benzo(b)fluoranthene	16	170	600	
207-08-9	Benzo(k)fluoranthene	20	170	370	
191-24-2	Benzo(g,h,i)perylene	36	170	460	J
50-32-8	Benzo(a)pyrene	12	86	450	
218-01-9	Chrysene	16	170	370	
53-70-3	Dibenz(a,h)anthracene	31	86	65	J
206-44-0	Fluoranthene	28	170	490	J
86-73-7	Fluorene	13	170		U
193-39-5	Indeno(1,2,3-cd)pyrene	24	170	340	J
90-12-0	1-Methylnaphthalene	52	170		U
91-57-6	2-Methylnaphthalene	18	170		U
91-20-3	Naphthalene	17	170		U
85-01-8	Phenanthrene	12	170	120	J
129-00-0	Pyrene	20	170	530	

qualification code: Q

TJS 4-7-08

FORM I SV

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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF964S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-07

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0211707

% Moisture: 7 decanted: (Y/N) N Date Sampled: 02/13/08 16:25

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 02/19/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/20/08 18:58

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	14	180		U
208-96-8	Acenaphthylene	10	180		U
120-12-7	Anthracene	15	180		U
56-55-3	Benzo(a)anthracene	20	180		U
205-99-2	Benzo(b)fluoranthene	17	180		U
207-08-9	Benzo(k)fluoranthene	21	180		U
191-24-2	Benzo(g,h,i)perylene	38	180		U
50-32-8	Benzo(a)pyrene	12	90		U
218-01-9	Chrysene	17	180		U
53-70-3	Dibenz(a,h)anthracene	32	90		U
206-44-0	Fluoranthene	29	180		U
86-73-7	Fluorene	14	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	25	180		U
90-12-0	1-Methylnaphthalene	54	180		U
91-57-6	2-Methylnaphthalene	19	180		U
91-20-3	Naphthalene	17	180		U
85-01-8	Phenanthrene	12	180		U
129-00-0	Pyrene	21	180		U

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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF104
2S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-08

Sample wt/vol: 15.3 (g/mL) G Lab File ID: 0211708

% Moisture: 9 decanted: (Y/N) N Date Sampled: 02/13/08 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:02/19/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/20/08 19:34

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	14	180		U
208-96-8	Acenaphthylene	10	180		U
120-12-7	Anthracene	15	180		U
56-55-3	Benzo(a)anthracene	20	180		U
205-99-2	Benzo(b)fluoranthene	17	180		U
207-08-9	Benzo(k)fluoranthene	21	180		U
191-24-2	Benzo(g,h,i)perylene	38	180		U
50-32-8	Benzo(a)pyrene	12	90		U
218-01-9	Chrysene	17	180		U
53-70-3	Dibenz(a,h)anthracene	32	90		U
206-44-0	Fluoranthene	29	180		U
86-73-7	Fluorene	14	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	25	180		U
90-12-0	1-Methylnaphthalene	54	180		U
91-57-6	2-Methylnaphthalene	19	180		U
91-20-3	Naphthalene	17	180		U
85-01-8	Phenanthrene	12	180		U
129-00-0	Pyrene	21	180		U

Empirical Laboratories

TJS
4-9-08

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFDUP
1S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-09

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0211709

% Moisture: 10 decanted: (Y/N) N Date Sampled: 02/13/08 :

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:02/19/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/20/08 21:20

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	15	180		U
208-96-8	Acenaphthylene	11	180		U
120-12-7	Anthracene	15	180		U
56-55-3	Benzo(a)anthracene	20	180		U
205-99-2	Benzo(b)fluoranthene	17	180		U
207-08-9	Benzo(k)fluoranthene	22	180		U
191-24-2	Benzo(g,h,i)perylene	39	180		U
50-32-8	Benzo(a)pyrene	13	92		U
218-01-9	Chrysene	17	180		U
53-70-3	Dibenz(a,h)anthracene	33	92		U
206-44-0	Fluoranthene	30	180		U
86-73-7	Fluorene	14	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	26	180		U
90-12-0	1-Methylnaphthalene	55	180		U
91-57-6	2-Methylnaphthalene	19	180		U
91-20-3	Naphthalene	18	180		U
85-01-8	Phenanthrene	13	180		U
129-00-0	Pyrene	22	180		U

FORM I SV

TJS
4-9-08

Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF104
8S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-10

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0211710

% Moisture: 13 decanted: (Y/N) N Date Sampled: 02/13/08 17:00

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:02/19/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/21/08 07:06

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	15	190		U
208-96-8	Acenaphthylene	11	190		U
120-12-7	Anthracene	16	190		U
56-55-3	Benzo(a)anthracene	21	190	190	~~J~~
205-99-2	Benzo(b)fluoranthene	18	190	190	~~J~~
207-08-9	Benzo(k)fluoranthene	23	190	120	J
191-24-2	Benzo(g,h,i)perylene	41	190		U
50-32-8	Benzo(a)pyrene	13	96	41	J
218-01-9	Chrysene	18	190	200	
53-70-3	Dibenz(a,h)anthracene	35	96		U
206-44-0	Fluoranthene	31	190	90	J
86-73-7	Fluorene	15	190		U
193-39-5	Indeno(1,2,3-cd)pyrene	27	190	41	J
90-12-0	1-Methylnaphthalene	58	190		U
91-57-6	2-Methylnaphthalene	20	190	46	J
91-20-3	Naphthalene	19	190		U
85-01-8	Phenanthrene	13	190	38	J
129-00-0	Pyrene	23	190	130	J

TRS 4-8-08
no "J" lab qualifier needed due to rounding issues

FORM I SV

TJJ

Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
86SFFDUP
2S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-11

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0211711

% Moisture: 9 decanted: (Y/N) N Date Sampled: 02/13/08 :

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:02/19/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/20/08 21:56

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	14	180		U
208-96-8	Acenaphthylene	11	180		U
120-12-7	Anthracene	15	180		U
56-55-3	Benzo(a)anthracene	20	180		U
205-99-2	Benzo(b)fluoranthene	17	180		U
207-08-9	Benzo(k)fluoranthene	22	180		U
191-24-2	Benzo(g,h,i)perylene	39	180		U
50-32-8	Benzo(a)pyrene	12	91		U
218-01-9	Chrysene	17	180		U
53-70-3	Dibenz(a,h)anthracene	33	91		U
206-44-0	Fluoranthene	29	180		U
86-73-7	Fluorene	14	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	25	180		U
90-12-0	1-Methylnaphthalene	55	180		U
91-57-6	2-Methylnaphthalene	19	180		U
91-20-3	Naphthalene	18	180		U
85-01-8	Phenanthrene	12	180		U
129-00-0	Pyrene	22	180		U

Empirical Laboratories

TJJ
4-9-08

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFDS080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-12

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0211712

% Moisture: 8 decanted: (Y/N) N Date Sampled: 02/14/08 09:15

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 02/19/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/21/08 08:52

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	14	180		U
208-96-8	Acenaphthylene	11	180		U
120-12-7	Anthracene	15	180	58	J
56-55-3	Benzo(a)anthracene	20	180	270	J
205-99-2	Benzo(b)fluoranthene	17	180	240	J
207-08-9	Benzo(k)fluoranthene	21	180	120	J
191-24-2	Benzo(g,h,i)perylene	38	180	67	J
50-32-8	Benzo(a)pyrene	12	90	150	J
218-01-9	Chrysene	17	180	240	J
53-70-3	Dibenz(a,h)anthracene	32	90		U
206-44-0	Fluoranthene	29	180	370	J
86-73-7	Fluorene	14	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	25	180	70	J
90-12-0	1-Methylnaphthalene	54	180		U
91-57-6	2-Methylnaphthalene	19	180		U
91-20-3	Naphthalene	18	180		U
85-01-8	Phenanthrene	12	180	200	J
129-00-0	Pyrene	22	180	280	J

qualification code: Z

TJS 4-7-08

FORM I SV

Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
86SFF146
2S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-13

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0211713

% Moisture: 9 decanted: (Y/N) N Date Sampled: 02/14/08 10:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 02/19/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/20/08 22:31

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	14	180		U
208-96-8	Acenaphthylene	11	180		U
120-12-7	Anthracene	15	180		U
56-55-3	Benzo(a)anthracene	20	180		U
205-99-2	Benzo(b)fluoranthene	17	180		U
207-08-9	Benzo(k)fluoranthene	22	180		U
191-24-2	Benzo(g,h,i)perylene	39	180		U
50-32-8	Benzo(a)pyrene	12	92		U
218-01-9	Chrysene	17	180		U
53-70-3	Dibenz(a,h)anthracene	33	92		U
206-44-0	Fluoranthene	29	180		U
86-73-7	Fluorene	14	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	25	180		U
90-12-0	1-Methylnaphthalene	55	180		U
91-57-6	2-Methylnaphthalene	19	180		U
91-20-3	Naphthalene	18	180		U
85-01-8	Phenanthrene	12	180		U
129-00-0	Pyrene	22	180		U

TOS
4-9-08

Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFCS080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-14

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0211714

% Moisture: 13 decanted: (Y/N) N Date Sampled: 02/14/08 09:30

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:02/19/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/20/08 23:07

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	15	190		U
208-96-8	Acenaphthylene	11	190		U
120-12-7	Anthracene	15	190		U
56-55-3	Benzo(a)anthracene	21	190		U
205-99-2	Benzo(b)fluoranthene	18	190	49	J
207-08-9	Benzo(k)fluoranthene	22	190		U
191-24-2	Benzo(g,h,i)perylene	40	190		U
50-32-8	Benzo(a)pyrene	13	95	46	J
218-01-9	Chrysene	18	190	47	J
53-70-3	Dibenz(a,h)anthracene	34	95		U
206-44-0	Fluoranthene	30	190		U
86-73-7	Fluorene	15	190		U
193-39-5	Indeno(1,2,3-cd)pyrene	26	190		U
90-12-0	1-Methylnaphthalene	57	190		U
91-57-6	2-Methylnaphthalene	20	190		U
91-20-3	Naphthalene	18	190		U
85-01-8	Phenanthrene	13	190		U
129-00-0	Pyrene	23	190		U

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TJS
4-9-08

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
86SFFDUP
3S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-15

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0211715

% Moisture: 10 decanted: (Y/N) N Date Sampled: 02/14/08 :

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:02/19/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/21/08 10:04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	15	180		U
208-96-8	Acenaphthylene	11	180		U
120-12-7	Anthracene	15	180	24	J
56-55-3	Benzo(a)anthracene	20	180	59	~~J~~ J
205-99-2	Benzo(b)fluoranthene	17	180	33	~~J~~ J
207-08-9	Benzo(k)fluoranthene	22	180		U
191-24-2	Benzo(g,h,i)perylene	39	180		U
50-32-8	Benzo(a)pyrene	13	92	18	~~J~~ J
218-01-9	Chrysene	17	180	47	~~J~~ J
53-70-3	Dibenz(a,h)anthracene	33	92		U
206-44-0	Fluoranthene	30	180	160	~~J~~ J
86-73-7	Fluorene	14	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	26	180		U
90-12-0	1-Methylnaphthalene	55	180		U
91-57-6	2-Methylnaphthalene	19	180		U
91-20-3	Naphthalene	18	180		U
85-01-8	Phenanthrene	13	180	67	~~J~~ J
129-00-0	Pyrene	22	180	97	~~J~~ J

qualification code:
Z

TJS 4-7-09

FORM I SV

TJS
4-9-08

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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF146
8S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-16

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0211716

% Moisture: 23 decanted: (Y/N) N Date Sampled: 02/14/08 11:00

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:02/19/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/20/08 23:42

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	17	210		U
208-96-8	Acenaphthylene	12	210		U
120-12-7	Anthracene	17	210		U
56-55-3	Benzo(a)anthracene	23	210		U
205-99-2	Benzo(b)fluoranthene	20	210		U
207-08-9	Benzo(k)fluoranthene	25	210		U
191-24-2	Benzo(g,h,i)perylene	45	210		U
50-32-8	Benzo(a)pyrene	14	110		U
218-01-9	Chrysene	20	210		U
53-70-3	Dibenz(a,h)anthracene	38	110		U
206-44-0	Fluoranthene	34	210		U
86-73-7	Fluorene	17	210		U
193-39-5	Indeno(1,2,3-cd)pyrene	29	210		U
90-12-0	1-Methylnaphthalene	64	210		U
91-57-6	2-Methylnaphthalene	22	210		U
91-20-3	Naphthalene	21	210		U
85-01-8	Phenanthrene	14	210		U
129-00-0	Pyrene	25	210		U

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TJS
4-9-08

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
TJS 4-7-08
86SFF1EB
3W080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) WATER Lab Sample ID: 0802117-17

Sample wt/vol: 1040 (g/mL) ML Lab File ID: 0211717

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/14/08 11:20

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/20/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/20/08 12:59

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.30	2.4		U
208-96-8	Acenaphthylene	0.22	2.4		U
120-12-7	Anthracene	0.37	2.4		U
56-55-3	Benzo(a)anthracene	0.44	2.4		U
205-99-2	Benzo(b)fluoranthene	0.34	2.4		U
207-08-9	Benzo(k)fluoranthene	0.24	2.4		U
191-24-2	Benzo(g,h,i)perylene	0.70	2.4		U
50-32-8	Benzo(a)pyrene	0.29	1.2		U
218-01-9	Chrysene	0.48	2.4		U
53-70-3	Dibenz(a,h)anthracene	0.82	1.2		U
206-44-0	Fluoranthene	0.34	2.4		U
86-73-7	Fluorene	0.26	2.4		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.68	2.4		U
90-12-0	1-Methylnaphthalene	0.48	2.4		U
91-57-6	2-Methylnaphthalene	0.33	2.4		U
91-20-3	Naphthalene	0.22	2.4		U
85-01-8	Phenanthrene	0.37	2.4		U
129-00-0	Pyrene	0.31	2.4		U

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TJS
4-9-08

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
86SFF106
2S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-18

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0211718

% Moisture: 9 decanted: (Y/N) N Date Sampled: 02/14/08 14:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:02/19/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/21/08 00:18

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	14	180		U
208-96-8	Acenaphthylene	11	180		U
120-12-7	Anthracene	15	180		U
56-55-3	Benzo(a)anthracene	20	180		U
205-99-2	Benzo(b)fluoranthene	17	180		U
207-08-9	Benzo(k)fluoranthene	21	180		U
191-24-2	Benzo(g,h,i)perylene	38	180		U
50-32-8	Benzo(a)pyrene	12	90		U
218-01-9	Chrysene	17	180		U
53-70-3	Dibenz(a,h)anthracene	33	90		U
206-44-0	Fluoranthene	29	180		U
86-73-7	Fluorene	14	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	25	180		U
90-12-0	1-Methylnaphthalene	54	180		U
91-57-6	2-Methylnaphthalene	19	180		U
91-20-3	Naphthalene	18	180		U
85-01-8	Phenanthrene	12	180		U
129-00-0	Pyrene	22	180		U

Empirical Laboratories

TJ
4-9-08

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF106
6S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-19

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0211719

% Moisture: 12 decanted: (Y/N) N Date Sampled: 02/14/08 15:00

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:02/19/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/21/08 00:53

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	15	190		U
208-96-8	Acenaphthylene	11	190		U
120-12-7	Anthracene	15	190		U
56-55-3	Benzo(a)anthracene	20	190		U
205-99-2	Benzo(b)fluoranthene	18	190		U
207-08-9	Benzo(k)fluoranthene	22	190		U
191-24-2	Benzo(g,h,i)perylene	40	190		U
50-32-8	Benzo(a)pyrene	13	94		U
218-01-9	Chrysene	18	190		U
53-70-3	Dibenz(a,h)anthracene	34	94		U
206-44-0	Fluoranthene	30	190		U
86-73-7	Fluorene	15	190		U
193-39-5	Indeno(1,2,3-cd)pyrene	26	190		U
90-12-0	1-Methylnaphthalene	56	190		U
91-57-6	2-Methylnaphthalene	20	190		U
91-20-3	Naphthalene	18	190		U
85-01-8	Phenanthrene	13	190		U
129-00-0	Pyrene	22	190		U

FORM I SV

Empirical Laboratories

TJS
4-9-09

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
86SFF167
2S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-20

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0211720

% Moisture: 8 decanted: (Y/N) N Date Sampled: 02/14/08 15:10

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:02/19/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/21/08 01:29

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	14	180		U
208-96-8	Acenaphthylene	11	180		U
120-12-7	Anthracene	15	180		U
56-55-3	Benzo(a)anthracene	20	180		U
205-99-2	Benzo(b)fluoranthene	17	180	18	J
207-08-9	Benzo(k)fluoranthene	21	180		U
191-24-2	Benzo(g,h,i)perylene	38	180		U
50-32-8	Benzo(a)pyrene	12	91		U
218-01-9	Chrysene	17	180		U
53-70-3	Dibenz(a,h)anthracene	33	91		U
206-44-0	Fluoranthene	29	180		U
86-73-7	Fluorene	14	180		U
193-39-5	Indeno(1,2,3-cd)pyrene	25	180		U
90-12-0	1-Methylnaphthalene	54	180		U
91-57-6	2-Methylnaphthalene	19	180		U
91-20-3	Naphthalene	18	180		U
85-01-8	Phenanthrene	12	180		U
129-00-0	Pyrene	22	180		U

FORM I SV

TJS
4-9-08

Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
86SFF167
8S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-21

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0211721

% Moisture: 15 decanted: (Y/N) N Date Sampled: 02/14/08 15:30

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 02/19/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/21/08 02:04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	16	200		U
208-96-8	Acenaphthylene	12	200		U
120-12-7	Anthracene	16	200		U
56-55-3	Benzo(a)anthracene	21	200		U
205-99-2	Benzo(b)fluoranthene	19	200		U
207-08-9	Benzo(k)fluoranthene	23	200		U
191-24-2	Benzo(g,h,i)perylene	42	200		U
50-32-8	Benzo(a)pyrene	14	98		U
218-01-9	Chrysene	18	200		U
53-70-3	Dibenz(a,h)anthracene	36	98		U
206-44-0	Fluoranthene	32	200		U
86-73-7	Fluorene	15	200		U
193-39-5	Indeno(1,2,3-cd)pyrene	27	200		U
90-12-0	1-Methylnaphthalene	59	200	1400	
91-57-6	2-Methylnaphthalene	21	200	1500	
91-20-3	Naphthalene	19	200		U
85-01-8	Phenanthrene	13	200		U
129-00-0	Pyrene	24	200		U

FORM I SV

TJS
4-9-08

Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF412S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-22

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0211722

% Moisture: 12 decanted: (Y/N) N Date Sampled: 02/14/08 15:40

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:02/19/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/21/08 09:28

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	15	190		U
208-96-8	Acenaphthylene	11	190		U
120-12-7	Anthracene	15	190		U
56-55-3	Benzo(a)anthracene	20	190		U
205-99-2	Benzo(b)fluoranthene	18	190		U
207-08-9	Benzo(k)fluoranthene	22	190		U
191-24-2	Benzo(g,h,i)perylene	39	190		U
50-32-8	Benzo(a)pyrene	13	93		U
218-01-9	Chrysene	17	190		U
53-70-3	Dibenz(a,h)anthracene	34	93		U
206-44-0	Fluoranthene	30	190		U
86-73-7	Fluorene	15	190		U
193-39-5	Indeno(1,2,3-cd)pyrene	26	190		U
90-12-0	1-Methylnaphthalene	56	190		U
91-57-6	2-Methylnaphthalene	20	190		U
91-20-3	Naphthalene	18	190		U
85-01-8	Phenanthrene	13	190		U
129-00-0	Pyrene	22	190		U

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Empirical Laboratories

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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF416S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-23

Sample wt/vol: 15.0 (g/mL) G Lab File ID: 0211723

% Moisture: 16 decanted: (Y/N) N Date Sampled: 02/14/08 15:50

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 02/19/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 02/21/08 02:39

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	16	200		U
208-96-8	Acenaphthylene	12	200		U
120-12-7	Anthracene	16	200		U
56-55-3	Benzo(a)anthracene	22	200		U
205-99-2	Benzo(b)fluoranthene	19	200		U
207-08-9	Benzo(k)fluoranthene	23	200		U
191-24-2	Benzo(g,h,i)perylene	42	200		U
50-32-8	Benzo(a)pyrene	14	99		U
218-01-9	Chrysene	18	200		U
53-70-3	Dibenz(a,h)anthracene	36	99		U
206-44-0	Fluoranthene	32	200		U
86-73-7	Fluorene	16	200		U
193-39-5	Indeno(1,2,3-cd)pyrene	27	200		U
90-12-0	1-Methylnaphthalene	59	200		U
91-57-6	2-Methylnaphthalene	21	200		U
91-20-3	Naphthalene	19	200		U
85-01-8	Phenanthrene	14	200		U
129-00-0	Pyrene	24	200		U

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Empirical Laboratories

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF137S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-01

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 067R0201

% Moisture: 13 decanted: (Y/N) N Date Sampled: 02/13/08 09:25

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/22/08 14:09

Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	780	2300	24000	Ø

TJ 4-9-08

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF137S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-01

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 067R0201SAMP01

% Moisture: 13 decanted: (Y/N) N Date Sampled: 02/13/08 09:25

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/22/08 14:09

Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	---------->C8-C10	18	46	200	~~D~~
	---------->C10-C12	18	46	2000	~~D~~
	---------->C12-C16	37	92	12000	~~D~~
	---------->C16-C22	55	140	9200	~~D~~
	---------->C22-C36	130	320	780	~~D~~

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Revised 2/28/08

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF110S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-02

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 039R0201

% Moisture: 9 decanted: (Y/N) N Date Sampled: 02/13/08 10:00

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/21/08 17:52

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	7.5	22	340	

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF158S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-03

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 040R0201

% Moisture: 5 decanted: (Y/N) N Date Sampled: 02/13/08 10:30

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/21/08 18:35

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	7.1	21	11	J

FORM I PRO

Empirical Laboratories

TBS
4-9-08

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF101
2S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-04

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 041R0201

% Moisture: 10 decanted: (Y/N) N Date Sampled: 02/13/08 13:20

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/21/08 19:18

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	7.5	22	65	J

qualification code: Z

TJS 4-7-08

FORM I PRO

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF101
8S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-05

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 068R0201

% Moisture: 15 decanted: (Y/N) N Date Sampled: 02/13/08 15:20

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/22/08 14:48

Injection Volume: 1.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	16	47	860	Ø

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4-9-08

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF101
8S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-05

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 068R0201SAMP05

% Moisture: 15 decanted: (Y/N) N Date Sampled: 02/13/08 15:20

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 02/18/08

Concentrated Extract Volume: 2.0 (mL) Date Analyzed: 02/22/08 14:48

Injection Volume: 1.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	---------->C8-C10	0.37	0.94	3.3	~~D~~
	---------->C10-C12	0.37	0.94	0.55	J~~D~~
	---------->C12-C16	0.75	1.9	240	~~D~~
	---------->C16-C22	1.1	2.8	550	~~D~~
	---------->C22-C36	2.6	6.6	68	~~D~~

tds
4-9-08

Revised
2/28/08

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF962S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-06

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 043R0201

% Moisture: 5 decanted: (Y/N) N Date Sampled: 02/13/08 16:10

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/21/08 20:45

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	7.1	21	20	~~J~~ J

qualification code: Q

TJS 4-7-08

FORM I PRO

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF964S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-07

Sample wt/vol: 25.3 (g/mL) G Lab File ID: 046R0201

% Moisture: 7 decanted: (Y/N) N Date Sampled: 02/13/08 16:25

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/21/08 22:55

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	7.2	21	12	J

FORM I PRO

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF104
2S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-08

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 047R0201

% Moisture: 9 decanted: (Y/N) N Date Sampled: 02/13/08 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/21/08 23:39

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	7.4	22	24	

FORM I PRO

Empirical Laboratories

TDS
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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
86SFFDUP
1S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-09

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 049R0201

% Moisture: 10 decanted: (Y/N) N Date Sampled: 02/13/08 :

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/22/08 01:05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	7.5	22	30	J

qualification code:
Z
TH 4-7-08

FORM I PRO

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF104
8S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-10

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 050R0201

% Moisture: 13 decanted: (Y/N) N Date Sampled: 02/13/08 17:00

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/22/08 01:49

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	7.8	23	33	

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4-9-08

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
86SFFDUP
2S080213

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-11

Sample wt/vol: 25.6 (g/mL) G Lab File ID: 051R0201

% Moisture: 9 decanted: (Y/N) N Date Sampled: 02/13/08 :

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/22/08 02:33

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	7.3	21	9.9	J

FORM I PRO

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFDS080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-12

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 052R0201

% Moisture: 8 decanted: (Y/N) N Date Sampled: 02/14/08 09:15

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/22/08 03:16

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	7.4	22	18	~~J~~ JB

qualification code: F

TRS 4-7-08

FORM I PRO

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FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF146
2S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-13

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 053R0201

% Moisture: 9 decanted: (Y/N) N Date Sampled: 02/14/08 10:40

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/22/08 03:59

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	7.5	22	22	~~J~~ JB

qualification code:
F

TJS 4-7-08

FORM I PRO

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFCS080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-14

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 056R0201

% Moisture: 13 decanted: (Y/N) N Date Sampled: 02/14/08 09:30

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/22/08 06:09

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	7.8	23	310	JB

qualification code: F

TRS 4-7-08

FORM I PRO

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFDUP
3S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-15

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 057R0201

% Moisture: 10 decanted: (Y/N) N Date Sampled: 02/14/08 :

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/22/08 06:52

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	7.5	22	20	J JB

qualification code: F
TJS 4-7-08

FORM I PRO

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF146
8S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-16

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 058R0201

% Moisture: 23 decanted: (Y/N) N Date Sampled: 02/14/08 11:00

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/22/08 07:36

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	8.8	26	35	JB

qualification code: F
TJS 4-7-08

FORM I PRO

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
TJS 4-7-08
86SFF/EB
3W080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) WATER Lab Sample ID: 0802117-17

Sample wt/vol: 1070 (g/mL) ML Lab File ID: 033R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/14/08 11:20

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/20/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/21/08 13:32

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.16	0.47	0.18	JB

FORM I PRO

Empirical Laboratories

TJS 4-9-08

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF106
2S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-18

Sample wt/vol: 25.2 (g/mL) G Lab File ID: 060R0201

% Moisture: 9 decanted: (Y/N) N Date Sampled: 02/14/08 14:50

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/22/08 09:03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	7.4	22	9.0	J JB

qualification code:
F

TJS 4-7-08

FORM I PRO

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF106
6S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-19

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 061R0201

% Moisture: 12 decanted: (Y/N) N Date Sampled: 02/14/08 15:00

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/22/08 09:46

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	7.7	23	56	JB

qualification code: S, F

TBS 4-7-08

FORM I PRO

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF167
2S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-20

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 062R0201

% Moisture: 8 decanted: (Y/N) N Date Sampled: 02/14/08 15:10

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/22/08 10:29

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	7.4	22	10	~~J~~ JB

qualification code: F
TJS 4-7-09

FORM I PRO

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
86SFF167
8S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-21

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 069R0201

% Moisture: 15 decanted: (Y/N) N Date Sampled: 02/14/08 15:30

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/22/08 15:32

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	80	240	2900	~~J~~ JB

Qualification code: F

TJB 4-7-08

FORM I PRO

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF167
8S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-21

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 069R0201SAMP21

% Moisture: 15 decanted: (Y/N) N Date Sampled: 02/14/08 15:30

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/22/08 15:32

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	---------->C8-C10	1.9	4.7	320	~~U~~
	---------->C10-C12	1.9	4.7	1300	~~U~~
	---------->C12-C16	3.8	9.4	1300	~~U~~
	---------->C16-C22	5.6	14	8.2	J~~U~~
	---------->C22-C36	13	33		U~~U~~

TBJ
4-9-08

Revised 2/2

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF412S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-22

Sample wt/vol: 25.3 (g/mL) G Lab File ID: 064R0201

% Moisture: 12 decanted: (Y/N) N Date Sampled: 02/14/08 15:40

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/22/08 11:55

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	7.6	22	11	~~J~~ JB

Qualification code: F
TRS 4-7-08

FORM I PRO

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF416S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-23

Sample wt/vol: 25.3 (g/mL) G Lab File ID: 070R0201

% Moisture: 16 decanted: (Y/N) N Date Sampled: 02/14/08 15:50

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 02/18/08

Concentrated Extract Volume: 2.0 (mL) Date Analyzed: 02/22/08 16:15

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	80	230	3600	~~J~~ JB

qualification code: F
TH 4-7-08

FORM I PRO

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF416S080214

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.F02117

Matrix: (soil/water) SOIL Lab Sample ID: 0802117-23

Sample wt/vol: 25.3 (g/mL) G Lab File ID: 070R0201SAMP23

% Moisture: 16 decanted: (Y/N) N Date Sampled: 02/14/08 15:50

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted:02/18/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/22/08 16:15

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	----------->C8-C10	1.9	4.7	70	~~U~~
	----------->C10-C12	1.9	4.7	1200	~~U~~
	----------->C12-C16	3.8	9.4	2300	~~U~~
	----------->C16-C22	5.6	14	16	~~U~~
	----------->C22-C36	13	33	14	J~~U~~

TJS
4-9-08

Revised 2/28/

Hill Constructors, Inc.
Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
271591-045 page 1 of 1

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.)
Former NAS Cecil Field	271591	Empirical Laboratories, LLC	Bethany Garvey / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 FAX:604-9282
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
South Fuel Farm - Additional Soil Sampling	CTO 0086	810157		
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Sam Naik	770-604-9182	615-345-1115		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	BETX by 8260B	PAHs + 1-Methylnaphalene and 2-Methylnapthalene by 8310, TRPH by [illegible] with carbon group speciation maaaa							SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	0802100 LAB ID
1	86SFFAS080212	Boring A @ 3 ft	soil	02/12/08	1315	III/C	14	3	1	1								-01
2	86SFFBS080212	Boring B @ 7 ft	soil	02/12/08	1335	III/C	14	3	1	1								-02
3	86SFF7S080212	Boring 7 @ 1 ft	soil	02/12/08	1350	III/C	14	3	1	1								-03
4	86SFF31S080212	Boring 31 @ 5 ft	soil	02/12/08	1410	III/C	14	3	1	1								-04
5	86SFF70S080212	Boring 70 @ 7 ft	soil	02/12/08	1430	III/C	14	3	1	1								-05
6	86SFF99S080212	Boring 99 @ 7 ft	soil	02/12/08	1510	III/C	14	3	1	1								-06
7	86SFF189S080212	Boring 189 @ 5 ft	soil	02/12/08	1545	III/C	14	3	1	1								-07
8	86SFFEB1W080207	Pre-Equipment Blank	Wtr	02/07/08	1030	III/C	14	3	2	2								-08
9	86SFFEB2W080212	Pre-Equipment Blank	Wtr	02/12/08	930	III/C	14	3	2	2								-09
10	TB5456	Trip Blank #5456	Wtr	02/12/08		III/C	14	3	2	2								-10
11																		

SAMPLER(S) AND COMPANY: (please print)
Craig Haas, Juan Acaron CH2M HILL

COURIER AND SHIPPING NUMBER:
Federal Express Tracking Numbers: 8643 8529 7546, 8643 8529 7535 (2 Coolers)
3.4°C , 3.1°C

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: C. Haas	2/12/2008	18:00	Printed Name and Signature: Federal Express Tracking Numbers: 8643 8529 7546, 8643 8529 7535 (2 Coolers)	2/12/2008	18:00
Printed Name and Signature:			Printed Name and Signature: E.J. Overby	2-13-08	10:00

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report), [ ] Copy 1 - Project File, [ ] Copy 2 - PMO

Form CC1001, Rev 02/00

00004

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER

271591-046 page 1 of 3

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
Former NAS Cecil Field	**271591**	**Empiracal Laboratories, LLC Marcia McGinnity**	**Bethany Garvey / CH2M Hill Constuctors, Inc.**	**115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 FAX:604-9282**
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
South Fuel Farm - Additional Soil Sampling	**CTO 0086**	**81057**		
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Sam Naik	**770-604-9182**	**Ph: (615) 345-1115**		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	BETX by 8021B	PAHs + 1-Methylnapthalenea nd 2-Methylnapthalene 8310	TRPH FL-PRO with carbon group							SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	0802117 LAB ID
1	**86SFF137S080213**	**Boring 137 @ 7 ft**	**soil**	**02/13/08**	**925**	**III/C**	**14**	**3**	**1**	**1**									-01
2	**86SFF110S080213**	**Boring 110 @ 7 ft**	**soil**	**02/13/08**	**1000**	**III/C**	**14**	**3**	**1**	**1**									-02
3	**86SFF158S080213**	**Boring 158 @ 3 ft**	**soil**	**02/13/08**	**1030**	**III/C**	**14**	**3**	**1**	**1**									-03
4	**86SFF1012S080213**	**Boring 101 @ 2 ft**	**soil**	**02/13/08**	**1320**	**III/C**	**14**	**3**	**1**	**1**									-04
5	**86SFF1018S080213**	**Boring 101 @ 8 ft**	**soil**	**02/13/08**	**1520**	**III/C**	**14**	**3**	**1**	**1**									-05
6	**86SFF962S080213**	**Boring 96 @ 2 ft**	**soil**	**02/13/08**	**1610**	**III/C**	**14**	**3**	**1**	**1**									-06
7	**86SFF96MS1S080213**	**Boring 96 MS1 @ 2 ft**	**soil**	**02/13/08**	**1610**	**III/C**	**14**	**3**	**1**	**1**									↓
8	**86SFF96MSD1S080213**	**Boring 96 MSD1 @ 2 ft**	**soil**	**02/13/08**	**1610**	**III/C**	**14**	**3**	**1**	**1**									↓
9	**86SFF964S080213**	**Boring 96 @ 4 ft**	**soil**	**02/13/08**	**1625**	**III/C**	**14**	**3**	**1**	**1**									-07
10	**86SFF1042S080213**	**Boring 104 @ 2 ft**	**soil**	**02/13/08**	**1640**	**III/C**	**14**	**3**	**1**	**1**									-08
11	**86SFFDUP1S080213**	**Duplicate 1**	**soil**	**02/13/08**		**III/C**	**14**	**3**	**1**	**1**									-09

2/28/08 added as per B. Garvey

SAMPLER(S) AND COMPANY: (please print)

Craig Haas, Juan Acaron / CH2M HILL

Federal Express Tracking Numbers: 8643 8529 7568, 8643 8529 7580, 8643 8529 7579, 8643 8529 7557 (4 Coolers) 4.0°C, 3.7°C, 4.2°C, 3.4°C

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
			E.J. Overby	2-15-08	9:00

Distribution: [ ] **Original** - Laboratory (To be returned with Analytical Report); [ ] **Copy 1** - Project File; [ ] **Copy 2** - PMO

Form CCI001, Rev 02/00

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER

271591-046 page 2 of 3

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
Former NAS Cecil Field	271591	Empirical Laboratories, LLC Marcia McGinnity	Bethany Garvey / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 FAX:604-9282
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
South Fuel Farm - Additional Soil Sampling	CTO 0086	81057		
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Sam Naik	770-604-9182	Ph:(615) 345-1115		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	BETX by 8021B	PAHs + 1- and 2-Methylnapthalene by 8310	TRPH FL-PRO with carbon							SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	0802117 LAB ID
12	86SFF1048S080213	Boring 104 @ 8 ft	soil	02/13/08	1700	III/C	14	3	1	1									-10
13	86SFFDUP2S080213	Duplicate 2	soil	02/13/08		III/C	14	3	1	1									-11
14	86SFFDS080214	Boring "D" @ 2 ft	soil	02/14/08	915	III/C	14	3	1	1									-12
15	86SFF146MS2S080214	MS from Boring 146 @ 2 ft	soil	02/14/08	1020	III/C	14	3	1	1									-13
16	86SFFCS080214	Boring "C" @ 8 ft	soil	02/14/08	930	III/C	14	3	1	1									-14
17	86SFF1462S080214	Boring 146 @ 2 ft	soil	02/14/08	1040	III/C	14	3	1	1									-13
18	86SFFDUP3S080214	Duplicate 3	soil	02/14/08		III/C	14	3	1	1									-15
19	86SFF146MSD2S080214	MSD from Boring 146 @ 2 ft	soil	02/14/08	1040	III/C	14	3	1	1									-13
20	86SFF1468S080214	Boring 146 @ 8 ft	soil	02/14/08	1100	III/C	14	3	1	1									-16
21	86SFFEB3W080214	Post Equipment Blank	Wtr	02/14/08	1120	III/C	14	3	1	1									-17
22	86SFF1062S080214	Boring 106 @ 2 ft	soil	02/14/08	1450	III/C	14	3	1	1									-18
23	86SFF1066S080214	Boring 106 @ 6 ft	soil	02/14/08	1500	III/C	14	3	1	1									-19

SAMPLER(S) AND COMPANY: (please print)

Craig Haas, Juan Acaron CH2M HILL

COURI

Federal Express Tracking Numbers: 8643 8529 7568, 8643 8529 7580, 8643 8529 7579, 8643 8529 7557 (4 Coolers)

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:					
			E.J. Overlay	2-15-08	9:00

Form CCI001, Rev 02/00

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER

271591-046 page 3 of 3

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
Former NAS Cecil Field	**271591**	**Empirical Laboratories, LLC**	**Bethany Garvey / CH2M Hill Constuctors, Inc.**	**115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 FAX:604-9282**
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
South Fuel Farm - Additional Soil Sampling	**CTO 0086**	**810157**		
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Sam Naik	**770-604-9182**	**615-345-1115**		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	BETX by 8260B	PAHs + 1-Methylnaphalene and 2-Methylnapthalene by 8310, TRPH by [illegible] with carbon group speciation maaaa							SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	0802117 LAB ID
1	**86SFF1672S080214**	**Boring 167 @ 2 ft**	**soil**	**02/14/08**	**1510**	**III/C**	**14**	**3**	**1**	**1**								-20
2	**86SFF1678S080214**	**Boring 167 @ 8 ft**	**soil**	**02/14/08**	**1530**	**III/C**	**14**	**3**	**1**	**1**								-21
3	**86SFF412S080214**	**Boring 41 @ 2 ft**	**soil**	**02/14/08**	**1540**	**III/C**	**14**	**3**	**1**	**1**								-22
4	**86SFF416S080214**	**Boring 41 @ 6 ft**	**soil**	**02/14/08**	**1550**	**III/C**	**14**	**3**	**1**	**1**								-23
5	**TB5453**	**Trip Blank 5453**	**Wtr**	**02/14/08**		**III/C**	**14**	**3**	**1**	**1**								-24
6	**TB5454**	**Trip Blank 5454**	**Wtr**	**02/14/08**		**III/C**	**14**	**3**	**1**	**1**								-25
7	**TB5455**	**Trip Blank 5455**	**Wtr**	**02/14/08**		**III/C**	**14**	**3**	**1**	**1**								-26
8																		
9																		
10																		
11																		

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Craig Haas, Juan Acaron CH2M HILL	**Federal Express Tracking Numbers: 8643 8529 7568, 8643 8529 7580, 8643 8529 7579, 8643 8529 7557 (4 Coolers)**	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
			E.J. Overby	2-15-08	9:00

Distribution: [ ] **Original** - Laboratory (To be returned with Analytical Report); [ ] **Copy 1** - Project File; [ ] **Copy 2** - PMO

Form CCI001, Rev 02/00

NAS Cecil Field

PREPARED FOR:	Former NAS Cecil Field / Groundwater Sampling 1st Event 2008
FINAL REVEIWER:	Camden Robinson/ Associate Project Chemist/CH2M HILL
COPIES:	Sam Naik /Project Manager/CCI
DATE:	March 24, 2008
SUBJECT:	Quality Assessment for Samples Collected February 22nd, 2008

This quality assurance memorandum is based upon a review of analytical data generated for groundwater samples and associated field quality control samples collected February 22nd, 2008 at the Former Naval Air Station Cecil Field in Jacksonville, Florida. The samples were collected as a part of the Groundwater sampling event conducted at the site. Table 1-1 presents a summary of the CCI sample identification numbers, laboratory sample identification numbers, dates of collection, and the analyses performed.

Empirical Laboratories, Inc. of Nashville, Tennessee served as the laboratory for this Groundwater sampling event for the following analyses:

- Volatile Organic Compounds (VOC) by SW-846 method 8260B
- Polyaromatic nuclear hydrocarbons (PAH) by SW-846 method 8270 Low Level SIM,
- Total petroleum hydrocarbons (TPH) by method FL-PRO,
- Lead by SW-846 method 6010B

Table 1-1 ***Summary Sample Data Reviewed***
Former NAS Cecil Field

Sample Number	Lab Sample ID	Date Sampled	Analysis Required
86SFF2NWQ108	0802209-01	02/22/2008	[1], [2], [3], [4]
86SFF4NWQ108	0802209-02	02/22/2008	[1], [2], [3], [4]
86SFF6NWQ108	0802209-03	02/22/2008	[1], [2], [3], [4]
86SFF7NWQ108	0802209-04	02/22/2008	[1], [2], [3], [4]
86SFF9NWQ108	0802209-05	02/22/2008	[1], [2], [3], [4]
*86SFFFDWQ108	0802209-06	02/22/2008	[1], [2], [3], [4]
86SFFEB1WQ108	0802209-07	02/22/2008	[1], [2], [3], [4]

Sample Number	Lab Sample ID	Date Sampled	Analysis Required
86SFFTBWQ108	0802209-08	02/22/2008	[1]

ANALYSES PERFORMED CODES:
[1] –Selective Volatile Organic Compounds (VOC) by method SW846 8260B,
[2] –Polyaromatic nuclear hydrocarbons (PAH) by method SW846 8270 Low Level SIM,
[3] – Total Petroleum Hydrocarbons (TPH) by method FL-PRO,
[4] – Lead by method SW846 6010B
* *86SFFFDWQ108 is the blind field duplicate of 86SFF9NWQ108*

Data for the analyses were reviewed for adherence to the specified analytical protocols in accordance with CCI Sampling Analysis Plan. All analysis results have been validated or qualified according to general guidance provided in the Department of Defense (DOD) Quality Systems Manual-Version 2 June 2002.

The findings of this quality assurance report are based upon the comprehensive review of the following results summaries reported according to the CCI Level C (CLP-like data deliverables format): chain of custody documentation, holding times, laboratory method and field blank analyses, surrogate compound recoveries, matrix spike compound recoveries and reproducibility, bromofluorobenzene (BFB) mass tuning results, initial and continuing calibration, second source recovery and internal standard area performance summaries, target compound identification, laboratory control sample results, laboratory and blind field duplicate sample results, detection limits/sensitivity, ICP interference check sample results, ICP serial dilution results, metals post digestion spikes, and electronic data deliverables.

The analyses were performed acceptably, but require several qualifying statements; it is recommended that the analytical data be used only with the qualifying statements provided below. Any aspects of the data, which are not discussed in this report, should be considered qualitatively and quantitatively valid as reported, based on the deliverables reviewed. A result summary report presenting the validated and qualified results is presented in Attachment I.

General Data Qualifiers

As required by U.S. EPA protocols, all compounds which were qualitatively identified at concentrations below their respective reporting limits (RL) but above the method detection limit (MDL) have been qualified with "J" qualifiers on the data summary reports to indicate that they are quantitative estimates.

GROUNDWATER CLEANUP TARGET ACTION LEVEL REGULARTORY LIMITS

All samples collected and analyzed for the month of February for the volatile organic compounds, polyaromatic hydrocarbon compounds, total petroleum hydrocarbon, and lead analyses were less than the action level groundwater cleanup target level regulartory limits with the exception of the analytes listed below:

Analyte (Volatile List)	Affected Sample	Sample Results (ug/L)	Groundwater Cleanup Target Levels (ug/L)
Benzene	86SFF7NWQ108	200	1
Ethylbenzene	86SFF7NWQ108	230	30
Isopropylbenzene (Cumene)	86SFF2NWQ108	3.4	0.8
Isopropylbenzene (Cumene)	86SFF4NWQ108	1.4	0.8
Isopropylbenzene (Cumene)	86SFF6NWQ108	10	0.8
Isopropylbenzene (Cumene)	86SFF7NWQ108	98	0.8
Isopropylbenzene (Cumene)	86SFF9NWQ108	8.8	0.8
Isopropylbenzene (Cumene)	86SFFFDWQ108	9.9	0.8
Xylenes (total)	86SFF2NWQ108	26	20
Xylenes (total)	86SFF7NWQ108	1400	20
Xylenes (total)	86SFF9NWQ108	29	20
Xylenes (total)	86SFFFDWQ108	32	20

Analyte (PAH List)	Affected Sample	Sample Results (ug/L)	Groundwater Cleanup Target Levels (ug/L)
Naphthalene	86SFF9NWQ108	20JB	14

Organic Data Qualifiers

The quantitation limits or positive results reported for volatile organic compounds acetone, bromodichloromethane, bromomethane, 2-butanone, carbon tetrachloride, dichlorodifluoromethane, 1,2-dichloroethane, 2-hexanone, 4-methyl-2-pentanone, cis-1,3-dichloropropane, 1,1,1-trichloroethane, and trichlorofluoromethane in the samples listed below should be considered quantitative estimates. High percent relative standard deviations during the continuing calibration were reported during the volatile organic analysis. Lack of precision during the continuing calibration indicates instrument instability; therefore "J" qualifiers were

apprended to the samples listed below to indicate that the reported values are quantitative estimates.

Compound	Affected Samples
Acetone	86SFF2NWQ108, 86SFF4NWQ108, 86SFF6NWQ108, 86SFF7NWQ108, 86SFF9NWQ108, and 86SFFFDWQ108
Bromodichloromethane	86SFF2NWQ108, 86SFF4NWQ108, 86SFF6NWQ108, 86SFF7NWQ108, 86SFF9NWQ108, and 86SFFFDWQ108
Bromomethane	86SFF2NWQ108, 86SFF4NWQ108, 86SFF6NWQ108, 86SFF7NWQ108, and 86SFFFDWQ108
2-Butanone	86SFF2NWQ108, 86SFF4NWQ108, 86SFF6NWQ108, 86SFF7NWQ108, 86SFF9NWQ108, and 86SFFFDWQ108
Carbon Tetrachloride	86SFF2NWQ108, 86SFF4NWQ108, 86SFF6NWQ108, 86SFF7NWQ108, 86SFF9NWQ108, and 86SFFFDWQ108
Dichlorodifluoromethane	86SFF2NWQ108, 86SFF4NWQ108, 86SFF6NWQ108, 86SFF7NWQ108, 86SFF9NWQ108, and 86SFFFDWQ108
1,2-Dichloroethane	86SFF2NWQ108, 86SFF4NWQ108, 86SFF6NWQ108, 86SFF7NWQ108, 86SFF9NWQ108, and 86SFFFDWQ108
2-Hexanone	86SFF2NWQ108, 86SFF4NWQ108, 86SFF6NWQ108, 86SFF7NWQ108, 86SFF9NWQ108, and 86SFFFDWQ108
4-Methyl-2-Pentanone	86SFF2NWQ108, 86SFF4NWQ108, 86SFF6NWQ108, 86SFF7NWQ108, 86SFF9NWQ108, and 86SFFFDWQ108
Cis-1,3-Dichloropropane	86SFF9NWQ108
1,1,1-Trichloroethane	86SFF9NWQ108
Trichlorofluoromethane	86SFF9NWQ108

Internal Standards

The quantitation limits reported for polyaromatic hydrocarbons benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene for sample 86SFF2NWQ108 should be considered quantitative estimates due to the biased low response reported for internal standard perylene-d12 during the sample analysis. Low internal standard recoveries are indicative of matrix interferences with the associated compounds; therefore a "J" qualifier was appended to the analytes listed above for sample 86SFF2NWQ108 to indicate that the reported values are quantitative estimates

The positive results reported for volatile organic compounds 4-methyl-2-pentanone and toluene, and polyaromatic hydrocarbons naphthalene and 2-methylnaphthalene in the samples listed below are considered quantitative estimates and may be lower than reported. The surrogate compound recoveries for volatile surrogate dibromofluoromethane, and polyaromatic hydrocarbon surrogate nitrobenzene-d5 were reported above acceptance criteria during the analysis of these samples. The high recoveries may be due to matrix interferences present in these samples. The positive results reported for 4-methyl-2-pentanone, toluene, naphthalene, and 2-methylnaphthalene in these samples have been appended with a "J" qualifier on the data summary table to indicate that they are biased low quantitative estimates.

Compound	Affected Samples
4-Methyl-2-Pentanone	86SFF7NWQ108
Toluene	86SFF7NWQ108
Naphthalene	86SFF9NWQ108
2-Methylnaphthalene	86SFF9NWQ108

The positive results for acetone, toluene, naphthalene, and total petroleum hydrocarbons (TPH) reported in the samples listed below are considered quantitative estimates due to the level at which these compounds were present in the associated trip, equipment, and/or laboratory method blanks. This has been indicated in the data summary tables by placing a "JB" qualifier next to the reported values for samples associated with trip and equipment blank contaminations and a "B" qualifier for sample results associated with method blank contamination.

Compound	Affected Samples
Acetone	86SFF2NWQ108, 86SFF4NWQ108, 86SFF6NWQ108, 86SFF9NWQ108, and 86SFFFDWQ108
Toluene	86SFF2NWQ108 and 86SFF7NWQ108
Naphthalene	86SFF2NWQ108, 86SFF7NWQ108, 86SFF9NWQ108, and 86SFFFDWQ108
TPH	86SFF2NWQ108, 86SFF4NWQ108, 86SFF6NWQ108, 86SFF7NWQ108, 86SFF9NWQ108, and 86SFFFDWQ108

The samples presented below were analyzed at dilutions for the analysis indicated. These dilutions were required to prevent saturation of the instrument, to allow quantitation of the compounds within the linear range of the calibration curve, and/or to reduce the effects of the matrix on the target compounds. Positive results for compounds reported above the calibration range in the initial analysis have been reported from the diluted analyses. When possible, results and quantitation limits for all other compounds were reported from the initial analysis. Higher quantitation limits were reported for specific volatile organic compounds and polyaromatic hydrocarbons analyses, which were not detected in the diluted sample. This should be noted when assessing these samples for the qualitative absence of specific volatile organic compounds

and polyaromatic hydrocarbons compounds.

Sample ID	Analysis	Dilution Factor
86SFF7NWQ108	VOC	20x
86SFF9NWQ108	PAH	5x

Sample 86SFF9NWQ108 and its blind field duplicate sample 86SFFFDWQ108 were submitted to the laboratory to evaluate sampling and analytical precision for those compounds determined to be confidently detected. All compounds met CCI's blind duplicate precision criteria of 30% for water samples relative percent difference (RPD) for volatile organic, polyaromatic hydrocarbons, and total petroleum by fl-pro analyses with the exception of 2-methylnaphthalene, 1-methylnaphthalene, naphthalene, and acenaphthylene. A "J" qualifier was appended to results for these compounds in the native sample and field duplicate sample to indicate that the reported values should be considered quantitative estimates due to the field duplicate RPD exceedance. The RPD was not calculated for the compounds that were not detected in both samples.

Compound	Affected Samples
2-Methylnaphthalene	86SFF9NWQ108 and 86SFFFDWQ108
1-Methylnaphthalene	86SFF9NWQ108 and 86SFFFDWQ108
Naphthalene	86SFF9NWQ108 and 86SFFFDWQ108
Acenaphthylene	86SFFFDWQ108

Inorganic Data Qualifiers

Sample 86SFF9NWQ108 and its blind field duplicate sample 86SFFFDWQ108 were submitted to the laboratory to evaluate sampling and analytical precision for those compounds determined to be confidently detected. All compounds met CCI's blind duplicate precision criteria of 30% for water samples relative percent difference (RPD) for metals analyses. The RPD was not calculated for the compounds that were not detected in both samples.

Summary

The organic and inorganic analyses were performed acceptably, but required qualifying statements. This analytical quality assurance report has identified the aspects of the data, which required qualification. These qualifiers are noted on the attached analytical sample summary reports. A support documentation package has been prepared for this quality assurance review and is filed with the Former NAS Cecil Field CTO 86/ Groundwater Sampling 1st Event 2008 project file.

Attachment I

VALID QUALIFIERS

QUALIFIER	
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit
J	The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R/UR	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified.
B	The analyte was detected in the associated method and/or calibration blank.
JB	The analyte detected in the associated field, equipment, and/or trip blank.

QUALIFICATION CODE REFERENCE

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect.
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient is <0.995.
K	Second source %D was noncompliant.	Second source %D was noncompliant.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.
MB	Presumed contamination from preparation (method) blank.	Presumed contamination from preparation (method) blank or calibration blank.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or high RPD.	MS/MSD recovery was poor or high RPD.
G	Result is over the calibration range. No other acceptable result was provided.	Result is over the calibration range. Not other acceptable result was provided.
E	Not applicable.	Lab duplicate RPD showed poor agreement.
Z	Field duplicate RPD showed poor agreement.	Field duplicate RPD showed poor agreement
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D was not within control limits.
TN	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
T	Presumed contamination from trip blank.	Not applicable.
+	False positive—reported compound was not present.	Not applicable.
-	False negative—compound was present but not reported.	Not applicable.
F	Presumed contamination from FB or ER.	Presumed contamination from FB or ER.
$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.
D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Confirmation analysis RPD exceeded 40%.	Post Digestion Spike recovery was not within control limits.
T/D	Not applicable.	Total metals results were less than the dissolved metals result.
SD	Not applicable.	Seed correction factor was below the acceptable limit.
M	Results should be considered estimated due to matrix effects caused by saturation of non-target analytes.	Not applicable

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF2NWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0220901

Level: (low/med) LOW Date Sampled: 02/22/08 12:55

% Moisture: not dec. _____ Date Analyzed: 02/27/08 14:06

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	1.7	10	3.3	JB-F,C,m
71-43-2	Benzene	0.12	1.0		U
74-97-5	Bromochloromethane	0.15	2.0		U
75-27-4	Bromodichloromethane	0.12	0.50		UJ-C
75-25-2	Bromoform	0.13	1.0		U
74-83-9	Bromomethane	0.13	2.0		UJ-C
78-93-3	2-Butanone (MEK)	1.4	10		UJ-C
75-15-0	Carbon disulfide	0.15	1.0		U
56-23-5	Carbon tetrachloride	0.11	1.0		UJ-C
108-90-7	Chlorobenzene	0.10	1.0		U
75-00-3	Chloroethane	0.14	2.0		U
67-66-3	Chloroform	0.13	1.0		U
74-87-3	Chloromethane	0.28	2.0		U
124-48-1	Dibromochloromethane	0.14	0.50		U
96-12-8	1,2-Dibromo-3-chloropropane	0.090	0.50		U
106-93-4	1,2-Dibromoethane	0.14	0.50		U
95-50-1	1,2-Dichlorobenzene	0.11	1.0		U
541-73-1	1,3-Dichlorobenzene	0.38	1.0		U
106-46-7	1,4-Dichlorobenzene	0.10	1.0		U
75-71-8	Dichlorodifluoromethane	0.25	2.0		UJ-C
75-34-3	1,1-Dichloroethane	0.11	1.0		U
107-06-2	1,2-Dichloroethane	0.13	1.0		UJ-C
75-35-4	1,1-Dichloroethene	0.13	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.14	1.0		U
156-60-5	trans-1,2-Dichloroethene	0.15	1.0		U
78-87-5	1,2-Dichloropropane	0.11	1.0		U
10061-01-5	cis-1,3-Dichloropropene	0.080	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.12	0.50		U
100-41-4	Ethylbenzene	0.35	1.0	23	
591-78-6	2-Hexanone (MBK)	0.18	5.0		UJ-C
98-82-8	Isopropylbenzene	0.11	0.50	3.4	
79-20-9	Methyl acetate	0.36	1.0		U
75-09-2	Methylene chloride	0.23	2.0		U
1634-04-4	Methyl-tert-butyl ether	0.10	1.0		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.35	5.0	2.1	J-C
100-42-5	Styrene	0.090	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.13	0.50		U
127-18-4	Tetrachloroethene	0.10	1.0		U
108-88-3	Toluene	0.16	1.0	0.39	JB-F

C-N

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF2NWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0220901

Level: (low/med) LOW Date Sampled: 02/22/08 12:55

% Moisture: not dec. _____ Date Analyzed: 02/27/08 14:06

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	0.57	1.0		U
120-82-1	1,2,4-Trichlorobenzene	0.57	1.0		U
71-55-6	1,1,1-Trichloroethane	0.12	1.0		U
79-00-5	1,1,2-Trichloroethane	0.10	1.0		U
79-01-6	Trichloroethene	0.23	1.0		U
76-13-1	Trichlorotrifluoroethane	0.11	1.0		U
75-69-4	Trichlorofluoromethane	0.12	2.0		U
75-01-4	Vinyl chloride	0.20	1.0		U
1330-20-7	Xylene(total)	0.47	1.0	26	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF4NWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0220902

Level: (low/med) LOW Date Sampled: 02/22/08 11:25

% Moisture: not dec. _____ Date Analyzed: 02/27/08 14:36

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	1.7	10	9.0	JB-F,C,MX
71-43-2	Benzene	0.12	1.0		U
74-97-5	Bromochloromethane	0.15	2.0		U
75-27-4	Bromodichloromethane	0.12	0.50		U J-C
75-25-2	Bromoform	0.13	1.0		U
74-83-9	Bromomethane	0.13	2.0		U J-C
78-93-3	2-Butanone (MEK)	1.4	10		U J-C
75-15-0	Carbon disulfide	0.15	1.0		U
56-23-5	Carbon tetrachloride	0.11	1.0		U J-C
108-90-7	Chlorobenzene	0.10	1.0		U
75-00-3	Chloroethane	0.14	2.0		U
67-66-3	Chloroform	0.13	1.0		U
74-87-3	Chloromethane	0.28	2.0		U
124-48-1	Dibromochloromethane	0.14	0.50		U
96-12-8	1,2-Dibromo-3-chloropropane	0.090	0.50		U
106-93-4	1,2-Dibromoethane	0.14	0.50		U
95-50-1	1,2-Dichlorobenzene	0.11	1.0		U
541-73-1	1,3-Dichlorobenzene	0.38	1.0		U
106-46-7	1,4-Dichlorobenzene	0.10	1.0		U
75-71-8	Dichlorodifluoromethane	0.25	2.0		U J-C
75-34-3	1,1-Dichloroethane	0.11	1.0		U
107-06-2	1,2-Dichloroethane	0.13	1.0		U J-C
75-35-4	1,1-Dichloroethene	0.13	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.14	1.0		U
156-60-5	trans-1,2-Dichloroethene	0.15	1.0		U
78-87-5	1,2-Dichloropropane	0.11	1.0		U
10061-01-5	cis-1,3-Dichloropropene	0.080	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.12	0.50		U
100-41-4	Ethylbenzene	0.35	1.0		U
591-78-6	2-Hexanone (MBK)	0.18	5.0		U J-C
98-82-8	Isopropylbenzene	0.11	0.50	1.4	
79-20-9	Methyl acetate	0.36	1.0		U
75-09-2	Methylene chloride	0.23	2.0		U
1634-04-4	Methyl-tert-butyl ether	0.10	1.0		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.35	5.0		U J-C
100-42-5	Styrene	0.090	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.13	0.50		U
127-18-4	Tetrachloroethene	0.10	1.0		U
108-88-3	Toluene	0.16	1.0		U

C-F

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF4NWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0220902

Level: (low/med) LOW Date Sampled: 02/22/08 11:25

% Moisture: not dec. _____ Date Analyzed: 02/27/08 14:36

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	0.57	1.0		U
120-82-1	1,2,4-Trichlorobenzene	0.57	1.0		U
71-55-6	1,1,1-Trichloroethane	0.12	1.0		U
79-00-5	1,1,2-Trichloroethane	0.10	1.0		U
79-01-6	Trichloroethene	0.23	1.0		U
76-13-1	Trichlorotrifluoroethane	0.11	1.0		U
75-69-4	Trichlorofluoromethane	0.12	2.0		U
75-01-4	Vinyl chloride	0.20	1.0		U
1330-20-7	Xylene(total)	0.47	1.0		U

FORM I VOA

Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF6NWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-03

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0220903

Level: (low/med) LOW Date Sampled: 02/22/08 10:25

% Moisture: not dec. _____ Date Analyzed: 02/27/08 15:06

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	1.7	10	2.9	JB-F,C,MB
71-43-2	Benzene	0.12	1.0	0.16	J
74-97-5	Bromochloromethane	0.15	2.0		U
75-27-4	Bromodichloromethane	0.12	0.50		UJ-C
75-25-2	Bromoform	0.13	1.0		U
74-83-9	Bromomethane	0.13	2.0		UJ-C
78-93-3	2-Butanone (MEK)	1.4	10		UJ-C
75-15-0	Carbon disulfide	0.15	1.0		U
56-23-5	Carbon tetrachloride	0.11	1.0		UJ-C
108-90-7	Chlorobenzene	0.10	1.0		U
75-00-3	Chloroethane	0.14	2.0		U
67-66-3	Chloroform	0.13	1.0		U
74-87-3	Chloromethane	0.28	2.0		U
124-48-1	Dibromochloromethane	0.14	0.50		U
96-12-8	1,2-Dibromo-3-chloropropane	0.090	0.50		U
106-93-4	1,2-Dibromoethane	0.14	0.50		U
95-50-1	1,2-Dichlorobenzene	0.11	1.0		U
541-73-1	1,3-Dichlorobenzene	0.38	1.0		U
106-46-7	1,4-Dichlorobenzene	0.10	1.0		U
75-71-8	Dichlorodifluoromethane	0.25	2.0		UJ-C
75-34-3	1,1-Dichloroethane	0.11	1.0		U
107-06-2	1,2-Dichloroethane	0.13	1.0		UJ-C
75-35-4	1,1-Dichloroethene	0.13	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.14	1.0		U
156-60-5	trans-1,2-Dichloroethene	0.15	1.0		U
78-87-5	1,2-Dichloropropane	0.11	1.0		U
10061-01-5	cis-1,3-Dichloropropene	0.080	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.12	0.50		U
100-41-4	Ethylbenzene	0.35	1.0	2.4	
591-78-6	2-Hexanone (MBK)	0.18	5.0		UJ-C
98-82-8	Isopropylbenzene	0.11	0.50	10	
79-20-9	Methyl acetate	0.36	1.0		U
75-09-2	Methylene chloride	0.23	2.0		U
1634-04-4	Methyl-tert-butyl ether	0.10	1.0		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.35	5.0		UJ-C
100-42-5	Styrene	0.090	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.13	0.50		U
127-18-4	Tetrachloroethene	0.10	1.0		U
108-88-3	Toluene	0.16	1.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF6NWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-03

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0220903

Level: (low/med) LOW Date Sampled: 02/22/08 10:25

% Moisture: not dec. _____ Date Analyzed: 02/27/08 15:06

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	0.57	1.0		U
120-82-1	1,2,4-Trichlorobenzene	0.57	1.0	1.1	
71-55-6	1,1,1-Trichloroethane	0.12	1.0		U
79-00-5	1,1,2-Trichloroethane	0.10	1.0		U
79-01-6	Trichloroethene	0.23	1.0		U
76-13-1	Trichlorotrifluoroethane	0.11	1.0		U
75-69-4	Trichlorofluoromethane	0.12	2.0		U
75-01-4	Vinyl chloride	0.20	1.0		U
1330-20-7	Xylene(total)	0.47	1.0		U

FORM I VOA

Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF7NWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-04

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0220904

Level: (low/med) LOW Date Sampled: 02/22/08 09:25

% Moisture: not dec. _____ Date Analyzed: 02/27/08 15:36

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	1.7	10		U J-C
71-43-2	Benzene	0.12	1.0	210	E R-D
74-97-5	Bromochloromethane	0.15	2.0		U
75-27-4	Bromodichloromethane	0.12	0.50		U J-C
75-25-2	Bromoform	0.13	1.0		U
74-83-9	Bromomethane	0.13	2.0		U J-C
78-93-3	2-Butanone (MEK)	1.4	10		U J-C
75-15-0	Carbon disulfide	0.15	1.0		U
56-23-5	Carbon tetrachloride	0.11	1.0		U J-C
108-90-7	Chlorobenzene	0.10	1.0		U
75-00-3	Chloroethane	0.14	2.0		U
67-66-3	Chloroform	0.13	1.0		U
74-87-3	Chloromethane	0.28	2.0		U
124-48-1	Dibromochloromethane	0.14	0.50		U
96-12-8	1,2-Dibromo-3-chloropropane	0.090	0.50		U
106-93-4	1,2-Dibromoethane	0.14	0.50		U
95-50-1	1,2-Dichlorobenzene	0.11	1.0		U
541-73-1	1,3-Dichlorobenzene	0.38	1.0		U
106-46-7	1,4-Dichlorobenzene	0.10	1.0		U
75-71-8	Dichlorodifluoromethane	0.25	2.0		U J-C
75-34-3	1,1-Dichloroethane	0.11	1.0		U
107-06-2	1,2-Dichloroethane	0.13	1.0		U J-C
75-35-4	1,1-Dichloroethene	0.13	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.14	1.0		U
156-60-5	trans-1,2-Dichloroethene	0.15	1.0		U
78-87-5	1,2-Dichloropropane	0.11	1.0		U
10061-01-5	cis-1,3-Dichloropropene	0.080	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.12	0.50		U
100-41-4	Ethylbenzene	0.35	1.0	180	E R-D
591-78-6	2-Hexanone (MBK)	0.18	5.0		U J-C
98-82-8	Isopropylbenzene	0.11	0.50	110	E R-D
79-20-9	Methyl acetate	0.36	1.0		U
75-09-2	Methylene chloride	0.23	2.0		U
1634-04-4	Methyl-tert-butyl ether	0.10	1.0		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.35	5.0	0.94	J-C,S
100-42-5	Styrene	0.090	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.13	0.50		U
127-18-4	Tetrachloroethene	0.10	1.0		U
108-88-3	Toluene	0.16	1.0	15	JB-F,S

FORM I VOA

Empirical Laboratories

C.A

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF7NWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-04

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0220904

Level: (low/med) LOW Date Sampled: 02/22/08 09:25

% Moisture: not dec. _____ Date Analyzed: 02/27/08 15:36

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	0.57	1.0		U
120-82-1	1,2,4-Trichlorobenzene	0.57	1.0		U
71-55-6	1,1,1-Trichloroethane	0.12	1.0		U
79-00-5	1,1,2-Trichloroethane	0.10	1.0		U
79-01-6	Trichloroethene	0.23	1.0		U
76-13-1	Trichlorotrifluoroethane	0.11	1.0		U
75-69-4	Trichlorofluoromethane	0.12	2.0		U
75-01-4	Vinyl chloride	0.20	1.0		U
1330-20-7	Xylene(total)	0.47	1.0	650	E R-D

c.t

FORM I VOA

Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF7NWQ108DL

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-04DL

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0220904D

Level: (low/med) LOW Date Sampled: 02/22/08 09:25

% Moisture: not dec. _____ Date Analyzed: 03/05/08 04:18

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 20.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	34	200		UD R-D
71-43-2	Benzene	2.4	20	200	D =
74-97-5	Bromochloromethane	3.0	40		UD R-D
75-27-4	Bromodichloromethane	2.4	10		UD
75-25-2	Bromoform	2.6	20		UD
74-83-9	Bromomethane	2.6	40		UD
78-93-3	2-Butanone (MEK)	29	200		UD
75-15-0	Carbon disulfide	3.0	20		UD
56-23-5	Carbon tetrachloride	2.2	20		UD
108-90-7	Chlorobenzene	2.0	20		UD
75-00-3	Chloroethane	2.8	40		UD
67-66-3	Chloroform	2.6	20		UD
74-87-3	Chloromethane	5.6	40		UD
124-48-1	Dibromochloromethane	2.8	10		UD
96-12-8	1,2-Dibromo-3-chloropropane	1.8	10		UD
106-93-4	1,2-Dibromoethane	2.8	10		UD
95-50-1	1,2-Dichlorobenzene	2.2	20		UD
541-73-1	1,3-Dichlorobenzene	7.6	20		UD
106-46-7	1,4-Dichlorobenzene	2.0	20		UD
75-71-8	Dichlorodifluoromethane	5.0	40		UD
75-34-3	1,1-Dichloroethane	2.2	20		UD
107-06-2	1,2-Dichloroethane	2.6	20		UD
75-35-4	1,1-Dichloroethene	2.6	20		UD
156-59-2	cis-1,2-Dichloroethene	2.8	20		UD
156-60-5	trans-1,2-Dichloroethene	3.0	20		UD
78-87-5	1,2-Dichloropropane	2.2	20		UD
10061-01-5	cis-1,3-Dichloropropene	1.6	10		UD
10061-02-6	trans-1,3-Dichloropropene	2.4	10		UD
100-41-4	Ethylbenzene	7.0	20	230	D =
591-78-6	2-Hexanone (MBK)	3.6	100		UD R-D
98-82-8	Isopropylbenzene	2.2	10	98	D =
79-20-9	Methyl acetate	7.2	20		UD R-D
75-09-2	Methylene chloride	4.6	40		UD
1634-04-4	Methyl-tert-butyl ether	2.0	20		UD
108-10-1	4-Methyl-2-pentanone (MIBK)	7.0	100		UD
100-42-5	Styrene	1.8	20		UD
79-34-5	1,1,2,2-Tetrachloroethane	2.6	10		UD
127-18-4	Tetrachloroethene	2.0	20		UD
108-88-3	Toluene	10	20	17	JD

FORM I VOA

Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF7NWQ108DL

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-04DL

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0220904D

Level: (low/med) LOW Date Sampled: 02/22/08 09:25

% Moisture: not dec. _____ Date Analyzed: 03/05/08 04:18

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 20.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	11	20		UD R-D
120-82-1	1,2,4-Trichlorobenzene	11	20		UD
71-55-6	1,1,1-Trichloroethane	2.4	20		UD
79-00-5	1,1,2-Trichloroethane	2.0	20		UD
79-01-6	Trichloroethene	4.6	20		UD
76-13-1	Trichlorotrifluoroethane	2.2	20		UD
75-69-4	Trichlorofluoromethane	2.4	40		UD
75-01-4	Vinyl chloride	4.0	20		UD
1330-20-7	Xylene(total)	9.4	20	1400	D

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF9NWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-05

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0220905

Level: (low/med) LOW Date Sampled: 02/22/08 13:35

% Moisture: not dec. _____ Date Analyzed: 02/28/08 14:22

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	1.7	10	7.7	JB-F,C
71-43-2	Benzene	0.12	1.0		U
74-97-5	Bromochloromethane	0.15	2.0		U
75-27-4	Bromodichloromethane	0.12	0.50		UJ-C
75-25-2	Bromoform	0.13	1.0		U
74-83-9	Bromomethane	0.13	2.0		U
78-93-3	2-Butanone (MEK)	1.4	10		UJ-C
75-15-0	Carbon disulfide	0.15	1.0		U
56-23-5	Carbon tetrachloride	0.11	1.0		UJ-C
108-90-7	Chlorobenzene	0.10	1.0		U
75-00-3	Chloroethane	0.14	2.0		U
67-66-3	Chloroform	0.13	1.0		U
74-87-3	Chloromethane	0.28	2.0		U
124-48-1	Dibromochloromethane	0.14	0.50		U
96-12-8	1,2-Dibromo-3-chloropropane	0.090	0.50		U
106-93-4	1,2-Dibromoethane	0.14	0.50		U
95-50-1	1,2-Dichlorobenzene	0.11	1.0		U
541-73-1	1,3-Dichlorobenzene	0.38	1.0		U
106-46-7	1,4-Dichlorobenzene	0.10	1.0		U
75-71-8	Dichlorodifluoromethane	0.25	2.0		UJ-C
75-34-3	1,1-Dichloroethane	0.11	1.0		U
107-06-2	1,2-Dichloroethane	0.13	1.0		UJ-C
75-35-4	1,1-Dichloroethene	0.13	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.14	1.0		U
156-60-5	trans-1,2-Dichloroethene	0.15	1.0		U
78-87-5	1,2-Dichloropropane	0.11	1.0		U
10061-01-5	cis-1,3-Dichloropropene	0.080	0.50		UJ-C
10061-02-6	trans-1,3-Dichloropropene	0.12	0.50		U
100-41-4	Ethylbenzene	0.35	1.0	11	
591-78-6	2-Hexanone (MBK)	0.18	5.0		UJ-C
98-82-8	Isopropylbenzene	0.11	0.50	8.8	
79-20-9	Methyl acetate	0.36	1.0		U
75-09-2	Methylene chloride	0.23	2.0		U
1634-04-4	Methyl-tert-butyl ether	0.10	1.0		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.35	5.0		UJ-C
100-42-5	Styrene	0.090	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.13	0.50		U
127-18-4	Tetrachloroethene	0.10	1.0		U
108-88-3	Toluene	0.16	1.0		U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF9NWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-05

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0220905

Level: (low/med) LOW Date Sampled: 02/22/08 13:35

% Moisture: not dec. _____ Date Analyzed: 02/28/08 14:22

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	0.57	1.0		U
120-82-1	1,2,4-Trichlorobenzene	0.57	1.0	2.4	
71-55-6	1,1,1-Trichloroethane	0.12	1.0		U J-C
79-00-5	1,1,2-Trichloroethane	0.10	1.0		U
79-01-6	Trichloroethene	0.23	1.0		U
76-13-1	Trichlorotrifluoroethane	0.11	1.0		U
75-69-4	Trichlorofluoromethane	0.12	2.0		U J-C
75-01-4	Vinyl chloride	0.20	1.0		U
1330-20-7	Xylene(total)	0.47	1.0	29	

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FORM I VOA

Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFFDWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-06

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0220906

Level: (low/med) LOW Date Sampled: 02/22/08 :

% Moisture: not dec. _____ Date Analyzed: 02/27/08 16:36

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	1.7	10	7.0	JB-FC, MB
71-43-2	Benzene	0.12	1.0		U
74-97-5	Bromochloromethane	0.15	2.0		U
75-27-4	Bromodichloromethane	0.12	0.50		UJ-C
75-25-2	Bromoform	0.13	1.0		U
74-83-9	Bromomethane	0.13	2.0		UJ-C
78-93-3	2-Butanone (MEK)	1.4	10		UJ-C
75-15-0	Carbon disulfide	0.15	1.0		U
56-23-5	Carbon tetrachloride	0.11	1.0		UJ-C
108-90-7	Chlorobenzene	0.10	1.0		U
75-00-3	Chloroethane	0.14	2.0		U
67-66-3	Chloroform	0.13	1.0		U
74-87-3	Chloromethane	0.28	2.0		U
124-48-1	Dibromochloromethane	0.14	0.50		U
96-12-8	1,2-Dibromo-3-chloropropane	0.090	0.50		U
106-93-4	1,2-Dibromoethane	0.14	0.50		U
95-50-1	1,2-Dichlorobenzene	0.11	1.0		U
541-73-1	1,3-Dichlorobenzene	0.38	1.0		U
106-46-7	1,4-Dichlorobenzene	0.10	1.0		U
75-71-8	Dichlorodifluoromethane	0.25	2.0		UJ-C
75-34-3	1,1-Dichloroethane	0.11	1.0		U
107-06-2	1,2-Dichloroethane	0.13	1.0		UJ-C
75-35-4	1,1-Dichloroethene	0.13	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.14	1.0		U
156-60-5	trans-1,2-Dichloroethene	0.15	1.0		U
78-87-5	1,2-Dichloropropane	0.11	1.0		U
10061-01-5	cis-1,3-Dichloropropene	0.080	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.12	0.50		U
100-41-4	Ethylbenzene	0.35	1.0	12	
591-78-6	2-Hexanone (MBK)	0.18	5.0		UJ-C
98-82-8	Isopropylbenzene	0.11	0.50	9.9	
79-20-9	Methyl acetate	0.36	1.0		U
75-09-2	Methylene chloride	0.23	2.0		U
1634-04-4	Methyl-tert-butyl ether	0.10	1.0		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.35	5.0	0.75	J-C
100-42-5	Styrene	0.090	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.13	0.50		U
127-18-4	Tetrachloroethene	0.10	1.0		U
108-88-3	Toluene	0.16	1.0		U

FORM I VOA

Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFFDWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-06

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0220906

Level: (low/med) LOW Date Sampled: 02/22/08 :

% Moisture: not dec. _____ Date Analyzed: 02/27/08 16:36

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	0.57	1.0	0.67	J
120-82-1	1,2,4-Trichlorobenzene	0.57	1.0	2.2	
71-55-6	1,1,1-Trichloroethane	0.12	1.0		U
79-00-5	1,1,2-Trichloroethane	0.10	1.0		U
79-01-6	Trichloroethene	0.23	1.0		U
76-13-1	Trichlorotrifluoroethane	0.11	1.0		U
75-69-4	Trichlorofluoromethane	0.12	2.0		U
75-01-4	Vinyl chloride	0.20	1.0		U
1330-20-7	Xylene(total)	0.47	1.0	32	

FORM I VOA

Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFEB1WQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-07

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0220907

Level: (low/med) LOW Date Sampled: 02/22/08 14:40

% Moisture: not dec. _____ Date Analyzed: 02/27/08 13:07

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	1.7	10	2.6	JB
71-43-2	Benzene	0.12	1.0		U
74-97-5	Bromochloromethane	0.15	2.0		U
75-27-4	Bromodichloromethane	0.12	0.50		U
75-25-2	Bromoform	0.13	1.0		U
74-83-9	Bromomethane	0.13	2.0		U
78-93-3	2-Butanone (MEK)	1.4	10		U
75-15-0	Carbon disulfide	0.15	1.0		U
56-23-5	Carbon tetrachloride	0.11	1.0		U
108-90-7	Chlorobenzene	0.10	1.0		U
75-00-3	Chloroethane	0.14	2.0		U
67-66-3	Chloroform	0.13	1.0		U
74-87-3	Chloromethane	0.28	2.0		U
124-48-1	Dibromochloromethane	0.14	0.50		U
96-12-8	1,2-Dibromo-3-chloropropane	0.090	0.50		U
106-93-4	1,2-Dibromoethane	0.14	0.50		U
95-50-1	1,2-Dichlorobenzene	0.11	1.0		U
541-73-1	1,3-Dichlorobenzene	0.38	1.0		U
106-46-7	1,4-Dichlorobenzene	0.10	1.0		U
75-71-8	Dichlorodifluoromethane	0.25	2.0		U
75-34-3	1,1-Dichloroethane	0.11	1.0		U
107-06-2	1,2-Dichloroethane	0.13	1.0		U
75-35-4	1,1-Dichloroethene	0.13	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.14	1.0		U
156-60-5	trans-1,2-Dichloroethene	0.15	1.0		U
78-87-5	1,2-Dichloropropane	0.11	1.0		U
10061-01-5	cis-1,3-Dichloropropene	0.080	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.12	0.50		U
100-41-4	Ethylbenzene	0.35	1.0		U
591-78-6	2-Hexanone (MBK)	0.18	5.0		U
98-82-8	Isopropylbenzene	0.11	0.50		U
79-20-9	Methyl acetate	0.36	1.0		U
75-09-2	Methylene chloride	0.23	2.0		U
1634-04-4	Methyl-tert-butyl ether	0.10	1.0		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.35	5.0		U
100-42-5	Styrene	0.090	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.13	0.50		U
127-18-4	Tetrachloroethene	0.10	1.0		U
108-88-3	Toluene	0.16	1.0	0.33	J

Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFEB1WQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-07

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0220907

Level: (low/med) LOW Date Sampled: 02/22/08 14:40

% Moisture: not dec. _____ Date Analyzed: 02/27/08 13:07

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	0.57	1.0		U
120-82-1	1,2,4-Trichlorobenzene	0.57	1.0		U
71-55-6	1,1,1-Trichloroethane	0.12	1.0		U
79-00-5	1,1,2-Trichloroethane	0.10	1.0		U
79-01-6	Trichloroethene	0.23	1.0		U
76-13-1	Trichlorotrifluoroethane	0.11	1.0		U
75-69-4	Trichlorofluoromethane	0.12	2.0		U
75-01-4	Vinyl chloride	0.20	1.0		U
1330-20-7	Xylene(total)	0.47	1.0		U

FORM I VOA

Empirical Laboratories

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFTBWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-08

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0220908

Level: (low/med) LOW Date Sampled: 02/22/08 :

% Moisture: not dec. _____ Date Analyzed: 02/27/08 12:07

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	1.7	10		U
71-43-2	Benzene	0.12	1.0		U
74-97-5	Bromochloromethane	0.15	2.0		U
75-27-4	Bromodichloromethane	0.12	0.50		U
75-25-2	Bromoform	0.13	1.0		U
74-83-9	Bromomethane	0.13	2.0		U
78-93-3	2-Butanone (MEK)	1.4	10		U
75-15-0	Carbon disulfide	0.15	1.0		U
56-23-5	Carbon tetrachloride	0.11	1.0		U
108-90-7	Chlorobenzene	0.10	1.0		U
75-00-3	Chloroethane	0.14	2.0		U
67-66-3	Chloroform	0.13	1.0		U
74-87-3	Chloromethane	0.28	2.0	1.0	J
124-48-1	Dibromochloromethane	0.14	0.50		U
96-12-8	1,2-Dibromo-3-chloropropane	0.090	0.50		U
106-93-4	1,2-Dibromoethane	0.14	0.50		U
95-50-1	1,2-Dichlorobenzene	0.11	1.0		U
541-73-1	1,3-Dichlorobenzene	0.38	1.0		U
106-46-7	1,4-Dichlorobenzene	0.10	1.0		U
75-71-8	Dichlorodifluoromethane	0.25	2.0		U
75-34-3	1,1-Dichloroethane	0.11	1.0		U
107-06-2	1,2-Dichloroethane	0.13	1.0		U
75-35-4	1,1-Dichloroethene	0.13	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.14	1.0		U
156-60-5	trans-1,2-Dichloroethene	0.15	1.0		U
78-87-5	1,2-Dichloropropane	0.11	1.0		U
10061-01-5	cis-1,3-Dichloropropene	0.080	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.12	0.50		U
100-41-4	Ethylbenzene	0.35	1.0		U
591-78-6	2-Hexanone (MBK)	0.18	5.0		U
98-82-8	Isopropylbenzene	0.11	0.50		U
79-20-9	Methyl acetate	0.36	1.0		U
75-09-2	Methylene chloride	0.23	2.0		U
1634-04-4	Methyl-tert-butyl ether	0.10	1.0		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.35	5.0		U
100-42-5	Styrene	0.090	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.13	0.50		U
127-18-4	Tetrachloroethene	0.10	1.0		U
108-88-3	Toluene	0.16	1.0		U

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFTBWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-08

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0220908

Level: (low/med) LOW Date Sampled: 02/22/08 :

% Moisture: not dec. _____ Date Analyzed: 02/27/08 12:07

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	0.57	1.0		U
120-82-1	1,2,4-Trichlorobenzene	0.57	1.0		U
71-55-6	1,1,1-Trichloroethane	0.12	1.0		U
79-00-5	1,1,2-Trichloroethane	0.10	1.0		U
79-01-6	Trichloroethene	0.23	1.0		U
76-13-1	Trichlorotrifluoroethane	0.11	1.0		U
75-69-4	Trichlorofluoromethane	0.12	2.0		U
75-01-4	Vinyl chloride	0.20	1.0	0.39	J
1330-20-7	Xylene(total)	0.47	1.0		U

Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF2NWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-01

Sample wt/vol: 1020 (g/mL) ML Lab File ID: 0220901

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/22/08 12:55

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted: 02/27/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 03/03/08 12:12

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.016	0.049		U
208-96-8	Acenaphthylene	0.016	0.049		U
120-12-7	Anthracene	0.016	0.049		U
56-55-3	Benzo(a)anthracene	0.016	0.049		U
205-99-2	Benzo(b)fluoranthene	0.016	0.049		UJ-I
207-08-9	Benzo(k)fluoranthene	0.016	0.049		UJ-I
191-24-2	Benzo(g,h,i)perylene	0.016	0.049		UJ-I
50-32-8	Benzo(a)pyrene	0.016	0.049		UJ-I
218-01-9	Chrysene	0.016	0.049		U
53-70-3	Dibenz(a,h)anthracene	0.016	0.049		UJ-I
206-44-0	Fluoranthene	0.016	0.049		U
86-73-7	Fluorene	0.016	0.049		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.049		UJ-I
91-57-6	2-Methylnaphthalene	0.019	0.049	5.3	
90-12-0	1-Methylnaphthalene	0.018	0.049	3.7	
91-20-3	Naphthalene	0.019	0.049	5.5	JB-F
85-01-8	Phenanthrene	0.016	0.049		U
129-00-0	Pyrene	0.016	0.049		U

C.R.

FORM I SV

Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF4NWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-02

Sample wt/vol: 1020 (g/mL) ML Lab File ID: 0220902

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/22/08 11:25

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/27/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 03/03/08 12:53

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.016	0.049	0.26	
208-96-8	Acenaphthylene	0.016	0.049		U
120-12-7	Anthracene	0.016	0.049		U
56-55-3	Benzo(a)anthracene	0.016	0.049		U
205-99-2	Benzo(b)fluoranthene	0.016	0.049		U
207-08-9	Benzo(k)fluoranthene	0.016	0.049		U
191-24-2	Benzo(g,h,i)perylene	0.016	0.049	0.022	J
50-32-8	Benzo(a)pyrene	0.016	0.049		U
218-01-9	Chrysene	0.016	0.049		U
53-70-3	Dibenz(a,h)anthracene	0.016	0.049		U
206-44-0	Fluoranthene	0.016	0.049		U
86-73-7	Fluorene	0.016	0.049		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.049		U
91-57-6	2-Methylnaphthalene	0.019	0.049		U
90-12-0	1-Methylnaphthalene	0.018	0.049		U
91-20-3	Naphthalene	0.019	0.049		U
85-01-8	Phenanthrene	0.016	0.049		U
129-00-0	Pyrene	0.016	0.049		U

FORM I SV

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Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF6NWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-03

Sample wt/vol: 1020 (g/mL) ML Lab File ID: 0220903

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/22/08 10:25

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/27/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 03/03/08 13:34

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.016	0.049	0.053	
208-96-8	Acenaphthylene	0.016	0.049		U
120-12-7	Anthracene	0.016	0.049		U
56-55-3	Benzo(a)anthracene	0.016	0.049		U
205-99-2	Benzo(b)fluoranthene	0.016	0.049		U
207-08-9	Benzo(k)fluoranthene	0.016	0.049		U
191-24-2	Benzo(g,h,i)perylene	0.016	0.049		U
50-32-8	Benzo(a)pyrene	0.016	0.049		U
218-01-9	Chrysene	0.016	0.049		U
53-70-3	Dibenz(a,h)anthracene	0.016	0.049		U
206-44-0	Fluoranthene	0.016	0.049		U
86-73-7	Fluorene	0.016	0.049	0.075	
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.049		U
91-57-6	2-Methylnaphthalene	0.019	0.049	0.78	
90-12-0	1-Methylnaphthalene	0.018	0.049	0.40	
91-20-3	Naphthalene	0.019	0.049		U
85-01-8	Phenanthrene	0.016	0.049	0.094	
129-00-0	Pyrene	0.016	0.049	0.040	J

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF7NWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-04

Sample wt/vol: 1060 (g/mL) ML Lab File ID: 0220904

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/22/08 09:25

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/27/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 03/03/08 14:15

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.016	0.047		U
208-96-8	Acenaphthylene	0.016	0.047	0.062	
120-12-7	Anthracene	0.016	0.047		U
56-55-3	Benzo(a)anthracene	0.016	0.047		U
205-99-2	Benzo(b)fluoranthene	0.016	0.047		U
207-08-9	Benzo(k)fluoranthene	0.016	0.047		U
191-24-2	Benzo(g,h,i)perylene	0.016	0.047		U
50-32-8	Benzo(a)pyrene	0.016	0.047		U
218-01-9	Chrysene	0.016	0.047		U
53-70-3	Dibenz(a,h)anthracene	0.016	0.047		U
206-44-0	Fluoranthene	0.016	0.047		U
86-73-7	Fluorene	0.016	0.047		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.017	0.047		U
91-57-6	2-Methylnaphthalene	0.018	0.047	1.1	
90-12-0	1-Methylnaphthalene	0.017	0.047	0.87	
91-20-3	Naphthalene	0.018	0.047	6.0	JB-F
85-01-8	Phenanthrene	0.016	0.047		U
129-00-0	Pyrene	0.016	0.047		U

a-L

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF9NWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-05

Sample wt/vol: 1020 (g/mL) ML Lab File ID: 0220905

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/22/08 13:35

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted: 02/27/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 03/03/08 14:56

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.016	0.049		U
208-96-8	Acenaphthylene	0.016	0.049		U
120-12-7	Anthracene	0.016	0.049		U
56-55-3	Benzo(a)anthracene	0.016	0.049		U
205-99-2	Benzo(b)fluoranthene	0.016	0.049		U
207-08-9	Benzo(k)fluoranthene	0.016	0.049		U
191-24-2	Benzo(g,h,i)perylene	0.016	0.049		U
50-32-8	Benzo(a)pyrene	0.016	0.049		U
218-01-9	Chrysene	0.016	0.049		U
53-70-3	Dibenz(a,h)anthracene	0.016	0.049		U
206-44-0	Fluoranthene	0.016	0.049		U
86-73-7	Fluorene	0.016	0.049		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.049		U
91-57-6	2-Methylnaphthalene	0.019	0.049	16	BR-1'
90-12-0	1-Methylnaphthalene	0.018	0.049	10	TS-2
91-20-3	Naphthalene	0.019	0.049	19	BC-D
85-01-8	Phenanthrene	0.016	0.049		U
129-00-0	Pyrene	0.016	0.049		U

C L

FORM I SV

Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF9NWQ108DL

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-05DL

Sample wt/vol: 1020 (g/mL) ML Lab File ID: 0220905D

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/22/08 13:35

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted: 02/27/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 03/04/08 07:37

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.081	0.24		UD R-A
208-96-8	Acenaphthylene	0.081	0.24		UD
120-12-7	Anthracene	0.081	0.24		UD
56-55-3	Benzo(a)anthracene	0.081	0.24		UD
205-99-2	Benzo(b)fluoranthene	0.081	0.24		UD
207-08-9	Benzo(k)fluoranthene	0.081	0.24		UD
191-24-2	Benzo(g,h,i)perylene	0.081	0.24		UD
50-32-8	Benzo(a)pyrene	0.081	0.24		UD
218-01-9	Chrysene	0.081	0.24		UD
53-70-3	Dibenz(a,h)anthracene	0.081	0.24		UD
206-44-0	Fluoranthene	0.081	0.24		UD
86-73-7	Fluorene	0.081	0.24		UD
193-39-5	Indeno(1,2,3-cd)pyrene	0.088	0.24		UD
91-57-6	2-Methylnaphthalene	0.093	0.24	16	D J-S, Z
90-12-0	1-Methylnaphthalene	0.088	0.24	11	D J-A
91-20-3	Naphthalene	0.096	0.24	20	D J B-F, S, Z
85-01-8	Phenanthrene	0.081	0.24		UD R-A
129-00-0	Pyrene	0.081	0.24		UD

FORM I SV

Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFFDWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-06

Sample wt/vol: 1020 (g/mL) ML Lab File ID: 0220906

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/22/08 :

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/27/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 03/03/08 15:37

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.016	0.049		U
208-96-8	Acenaphthylene	0.016	0.049	0.40	J-Z
120-12-7	Anthracene	0.016	0.049		U
56-55-3	Benzo(a)anthracene	0.016	0.049		U
205-99-2	Benzo(b)fluoranthene	0.016	0.049		U
207-08-9	Benzo(k)fluoranthene	0.016	0.049		U
191-24-2	Benzo(g,h,i)perylene	0.016	0.049		U
50-32-8	Benzo(a)pyrene	0.016	0.049		U
218-01-9	Chrysene	0.016	0.049		U
53-70-3	Dibenz(a,h)anthracene	0.016	0.049		U
206-44-0	Fluoranthene	0.016	0.049		U
86-73-7	Fluorene	0.016	0.049		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.049		U
91-57-6	2-Methylnaphthalene	0.019	0.049	7.2	J-Z
90-12-0	1-Methylnaphthalene	0.018	0.049	3.6	J-Z
91-20-3	Naphthalene	0.019	0.049	12	J3-F, Z
85-01-8	Phenanthrene	0.016	0.049		U
129-00-0	Pyrene	0.016	0.049		U

FORM I SV

Empirical Laboratories

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFEB1WQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL FIELD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-07

Sample wt/vol: 1020 (g/mL) ML Lab File ID: 0220907

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/22/08 14:40

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/27/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 03/03/08 16:18

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.016	0.049		U
208-96-8	Acenaphthylene	0.016	0.049		U
120-12-7	Anthracene	0.016	0.049		U
56-55-3	Benzo(a)anthracene	0.016	0.049		U
205-99-2	Benzo(b)fluoranthene	0.016	0.049		U
207-08-9	Benzo(k)fluoranthene	0.016	0.049		U
191-24-2	Benzo(g,h,i)perylene	0.016	0.049		U
50-32-8	Benzo(a)pyrene	0.016	0.049		U
218-01-9	Chrysene	0.016	0.049		U
53-70-3	Dibenz(a,h)anthracene	0.016	0.049		U
206-44-0	Fluoranthene	0.016	0.049		U
86-73-7	Fluorene	0.016	0.049		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	0.049		U
91-57-6	2-Methylnaphthalene	0.019	0.049		U
90-12-0	1-Methylnaphthalene	0.018	0.049		U
91-20-3	Naphthalene	0.019	0.049	0.042	J
85-01-8	Phenanthrene	0.016	0.049		U
129-00-0	Pyrene	0.016	0.049		U

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF2NWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.F02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-01

Sample wt/vol: 1040 (g/mL) ML Lab File ID: 005R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/22/08 12:55

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/27/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 03/04/08 17:42

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.16	0.48	9.3	JB-F

ok

FORM I PRO

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF4NWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.F02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-02

Sample wt/vol: 1020 (g/mL) ML Lab File ID: 006R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/22/08 11:25

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/27/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 03/04/08 18:25

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.17	0.49	2.9	JB-F

C-F

FORM I PRO

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF6NWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.F02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-03

Sample wt/vol: 1020 (g/mL) ML Lab File ID: 009R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/22/08 10:25

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/27/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 03/04/08 20:34

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.17	0.49	3.1	JB-F

C.4

FORM I PRO

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF7NWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.F02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-04

Sample wt/vol: 1020 (g/mL) ML Lab File ID: 010R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/22/08 09:25

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/27/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 03/04/08 21:18

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.17	0.49	2.9	JB-F

C-1

FORM I PRO

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF9NWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.F02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-05

Sample wt/vol: 1040 (g/mL) ML Lab File ID: 011R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/22/08 13:35

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/27/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 03/04/08 22:02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.16	0.48	2.6	JB-F

C-1

FORM I PRO

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFFDWQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.F02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-06

Sample wt/vol: 1020 (g/mL) ML Lab File ID: 012R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/22/08 :

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/27/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 03/04/08 22:45

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.17	0.49	3.0	JB-F

FORM I PRO

Empirical Laboratories

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFEB1WQ108

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.F02209

Matrix: (soil/water) WATER Lab Sample ID: 0802209-07

Sample wt/vol: 1020 (g/mL) ML Lab File ID: 013R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/22/08 14:40

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/27/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 03/04/08 23:28

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.17	0.49	0.17	J

c-l

FORM I PRO

Empirical Laboratories

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFF2NWQ108

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0802209

Matrix (soil/water) WATER Lab Sample ID: 0802209-01

Level (low/med): LOW Date Received: 2/23/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	2.2	~~B~~	J	P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Empirical Laboratories

Form IA-IN

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFF4NWQ108

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0802209

Matrix (soil/water) WATER Lab Sample ID: 0802209-02

Level (low/med): LOW Date Received: 2/23/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	2.6	~~B~~	J	P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Empirical Laboratories

Form IA-IN

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFF6NWQ108

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0802209

Matrix (soil/water) WATER Lab Sample ID: 0802209-03

Level (low/med): LOW Date Received: 2/23/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	11.7			P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Empirical Laboratories

Form IA-IN

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFF7NWQ108

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0802209

Matrix (soil/water) WATER Lab Sample ID: 0802209-04

Level (low/med): LOW Date Received: 2/23/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	2.2	~~B~~	J	P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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Form IA-IN

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFF9NWQ108

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0802209

Matrix (soil/water) WATER Lab Sample ID: 0802209-05

Level (low/med): LOW Date Received: 2/23/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	3.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Empirical Laboratories

Form IA-IN

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFFFDWQ108

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0802209

Matrix (soil/water) WATER Lab Sample ID: 0802209-06

Level (low/med): LOW Date Received: 2/23/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	1.6	B	J	P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Empirical Laboratories

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1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFFEB1WQ108

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0802209

Matrix (soil/water) WATER Lab Sample ID: 0802209-07

Level (low/med): LOW Date Received: 2/23/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	3.0	U		P

C-L

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Empirical Laboratories

CH2MHILL Constructors, Inc.
1000 Abernathy Road, Suite 1600
Atlanta, GA 30328
Tel No: (770) 604-9182
Fax No: (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
271591-054 page 1 of 1

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
Former N.A.S. Cecil Field South Fuel Farm	271591	Empirical Laboratories Marcia McGinnity	Bethany Garvey / CH2MHILL Constructors, Inc.	Northpark 400, 1000 Abernathy Road, Suite 1600; Atlanta, GA 30328 (770)604-9182 / FAX:604-9282
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
South Fuel Farm GW Sampling Event	0086		Sam Naik / CH2MHILL Constructors, Inc.	Northpark 400, 1000 Abernathy Road, Suite 1600; Atlanta, GA 30328 (770)604-9182 / FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Sam Naik	Ph:(904)777-4812 Fax:(904) 777-4262	Ph: 615-345-1119 ext 232 Fax: 615-207-9918		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	Volatiles by 8260B	PAHs by 8270C (incl. 1-Methylnaphthalene & 2-Methylnaphthalene)	TRPH by FL-PRO	Metals-Lead only by 6010B				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	0802209 LAB ID
1	86SFF2NWQ108	CEF-043-2N	W	02/22/08	1255	III/C	14	3	2	2	1				N		-01
2	86SFF4NWQ108	CEF-043-4N	W	02/22/08	1125	III/C	14	3	2	2	1				N	MS / MSD	-02
3	86SFF6NWQ108	CEF-043-6N	W	02/22/08	1025	III/C	14	3	2	2	1				N		-03
4	86SFF7NWQ108	CEF-043-7N	W	02/22/08	925	III/C	14	3	2	2	1				N		-04
5	86SFF9NWQ108	CEF-043-9N	W	02/22/08	1335	III/C	14	3	2	2	1				N		-05
6	86SFFMSWQ108	Matrix Spike	W	02/22/08	1125	III/C	14	3	2	2	1				MS	CEF-043-4N	-02
7	86SFFMSDWQ108	Matrix Spike Duplicate	W	02/22/08	1125	III/C	14	3	2	2	1				SD	CEF-043-4N	-02
8	86SFFFDWQ108	Field Duplicate	W	02/22/08	NA	III/C	14	3	2	2	1				FD		-06
9	86SFFEB1WQ108	Equipment Blank	W	2/21/08	1440	III/C	14	3	2	2	1				EB		-07
10	86SFFTBWQ108	Trip Blank	W	NA	NA	III/C	14	3									-08

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop / Craig Haas / Juan Acaron AGVIQ / CH2MHILL	Federal Express Tracking Numbers # 790944779107, 790944779221, 790944779254, 798879783238, 798879783249. (5 Coolers)	4.5°C

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
R.Dumaop	2/22/2008	18:00	Federal Express Tracking Numbers # 790944779107, 790944779221, 790944779254, 798879783238, 798879783249. (5 Coolers)	2/22/2008	18:00
Printed Name and Signature:			Printed Name and Signature:	2-23-08	9:40
Printed Name and Signature:			Printed Name and Signature: E.J. Overby	2-25-08	9:00

Distribution: [ ] **Original** - Laboratory (To be returned with Analytical Report); [ ] **Copy 1** - Project File; [ ] **Copy 2** - PMO

Form CCI001, Rev 02/00

Empirical Laboratories

00003

NAS Cecil Field

PREPARED FOR:	Former NAS Cecil Field / Groundwater Sampling 2nd Event 2008
FINAL REVEIWER:	Camden Robinson/ Associate Project Chemist/CH2M HILL
COPIES:	Sam Naik /Project Manager/CCI
DATE:	August 13, 2008
SUBJECT:	Quality Assessment for Samples Collected July 9th, 2008 thru July 10th, 2008

This quality assurance memorandum is based upon a review of analytical data generated for groundwater samples and associated field quality control samples collected July 9th, 2008 thru July 10th, 2008 at the Former Naval Air Station Cecil Field in Jacksonville, Florida. The samples were collected as a part of the Groundwater sampling event conducted at the site. Table 1-1 presents a summary of the CCI sample identification numbers, laboratory sample identification numbers, dates of collection, and the analyses performed.

Empirical Laboratories, Inc. of Nashville, Tennessee served as the laboratory for this Groundwater sampling event for the following analyses:

- Volatile Organic Compounds (VOC) by SW-846 method 8260B
- Polyaromatic nuclear hydrocarbons (PAH) by SW-846 method 8270,
- Total petroleum hydrocarbons (TPH) by method FL-PRO,
- Lead by SW-846 method 6010B

Table 1-1 *Summary Sample Data Reviewed*
Former NAS Cecil Field

Sample Number	Lab Sample ID	Date Sampled	Analysis Required
86SFF9NWQ208	0807088-01	07/09/2008	[1], [2], [3], [4]
86SFF7NWQ208	0807088-02	07/09/2008	[1], [2], [3], [4]
*86SFFFDWQ208	0807088-03	07/09/2008	[1], [2], [3], [4]
86SFFTBWQ208	0807088-04	07/09/2008	[1]
86SFF6NWQ208	0807098-01	07/10/2008	[1], [2], [3], [4]
86SFF4NWQ208	0807098-02	07/10/2008	[1], [2], [3], [4]
86SFF2NWQ208	0807098-03	07/10/2008	[1], [2], [3], [4]

Sample Number	Lab Sample ID	Date Sampled	Analysis Required
86SFFEB1WQ208	0807098-04	07/10/2008	[1], [2], [3], [4]
86SFFTBWQ208	0807098-05	07/10/2008	[1]

ANALYSES PERFORMED CODES:
[1] –Volatile Organic Compounds (VOC) by method SW846 8260B,
[2] –Polyaromatic nuclear hydrocarbons (PAH) by method SW846 8270,
[3] – Total Petroleum Hydrocarbons (TPH) by method FL-PRO,
[4] – Lead by method SW846 6010B
* *86SFFFDWQ208 is the blind field duplicate of 86SFF7NWQ208*

Data for the analyses were reviewed for adherence to the specified analytical protocols in accordance with CCI Sampling Analysis Plan. All analysis results have been validated or qualified according to general guidance provided in the Department of Defense (DOD) Quality Systems Manual-Version 2 June 2002.

The findings of this quality assurance report are based upon the comprehensive review of the following results summaries reported according to the CCI Level C (CLP-like data deliverables format): chain of custody documentation, holding times, laboratory method and field blank analyses, surrogate compound recoveries, matrix spike compound recoveries and reproducibility, bromofluorobenzene (BFB) mass tuning results, initial and continuing calibration, second source recovery and internal standard area performance summaries, target compound identification, laboratory control sample results, laboratory and blind field duplicate sample results, detection limits/sensitivity, ICP interference check sample results, ICP serial dilution results, metals post digestion spikes, and electronic data deliverables.

The analyses were performed acceptably, but require several qualifying statements; it is recommended that the analytical data be used only with the qualifying statements provided below. Any aspects of the data, which are not discussed in this report, should be considered qualitatively and quantitatively valid as reported, based on the deliverables reviewed. A result summary report presenting the validated and qualified results is presented in Attachment I.

General Data Qualifiers

As required by U.S. EPA protocols, all compounds which were qualitatively identified at concentrations below their respective reporting limits (RL) but above the method detection limit (MDL) have been qualified with "J" qualifiers on the data summary reports to indicate that they are quantitative estimates.

GROUNDWATER CLEANUP TARGET ACTION LEVEL REGULARTORY LIMITS

All samples collected and analyzed for the month of July 2008 for the volatile organic compounds, polyaromatic hydrocarbon compounds, total petroleum hydrocarbon, and lead analyses were less than the action level groundwater cleanup target level regulartory limits with the exception of the analytes listed below:

Analyte (Volatile List)	Affected Sample	Sample Results (ug/L)	Groundwater Cleanup Target Levels (ug/L)
Benzene	86SFF7NWQ208	220 J	1
Ethylbenzene	86SFF7NWQ208	360 J	30
Isopropylbenzene (Cumene)	86SFF2NWQ208	2.6	0.8
Isopropylbenzene (Cumene)	86SFF4NWQ208	2	0.8
Isopropylbenzene (Cumene)	86SFF6NWQ208	10	0.8
Isopropylbenzene (Cumene)	86SFF7NWQ208	150 J	0.8
Isopropylbenzene (Cumene)	86SFF9NWQ208	10	0.8
Methylene Chloride	86SFF7NWQ208	10 JB	5
Xylenes (total)	86SFF2NWQ208	60	20
Xylenes (total)	86SFF7NWQ208	1800 J	20
Xylenes (total)	86SFF9NWQ208	52	20

Analyte (PAH List)	Affected Sample	Sample Results (ug/L)	Groundwater Cleanup Target Levels (ug/L)
1-Methylnaphthalene	86SFF9NWQ208	29	28
2-Methylnaphthalene	86SFF9NWQ208	46	28
Naphthalene	86SFF7NWQ208	37 J	14
Naphthalene	86SFF9NWQ208	42	14

Analyte (PRO List)	Affected Sample	Sample Results (ug/L)	Groundwater Cleanup Target Levels (ug/L)
PRO	86SFF2NWQ208	8300	5000
PRO	86SFF9NWQ208	7600	5000

Organic Data Qualifiers

The quantitation limits or positive results reported for volatile organic compounds bromomethane and 1,2,3-trichlorobenzene in the samples listed below should be considered quantitative estimates. High percent relative standard deviations during the continuing calibration were reported during the volatile organic analysis. Lack of precision during the continuing calibration indicates instrument instability; therefore "J" qualifiers were apprended to the samples listed below to indicate that the reported values are quantitative estimates.

Compound	Affected Samples
Bromomethane	86SFF9NWQ208, 86SFF7NWQ208, 86SFFFDWQ208, 86SFF6NWQ208, 86SFF4NWQ208, and 86SFF2NWQ208
1,2,3-Trichlorobenzene	86SFF6NWQ208, 86SFF4NWQ208, and 86SFF2NWQ208

Sample 86SFF9NWQ208 required a dilution due to analytes were reported above the calibration range in the low level analysis. Fluorene was reported as a non-detect in the low level analysis, but as detect in the high level analysis due to possible suppression caused by saturation of non-target analytes present in the low level analysis; therefore the report value for fluorene in the high level analysis should be considered quantitatively estimated due to matrix effects. This has been indicated by applying a "J" qualifier next to the compound for sample 86SFF9NWQ208 in the data summary tables.

The positive result reported for petroleum range organic (PRO) for sample 86SFF4NWQ208 is considered a quantitative estimate and may be higher than reported. The surrogate compound recovery for surrogate 2-fluorobiphenyl was reported below acceptance criteria during the analysis of this sample. The low recovery may be due to matrix interferences present in this sample. The positive result reported for petroleum range organic for sample 86SFF4NWQ208 has been appended with a "J" qualifier on the data summary table to indicate that it is a biased high quantitative estimate.

The positive results for acetone, chloromethane, toluene, methylene chloride, naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene reported in the samples listed below are considered quantitative estimates due to the level at which these compounds were present in the associated trip, equipment, and/or laboratory method blanks. This has been indicated in the data summary tables by placing a "JB" qualifier next to the reported values for samples associated with trip and equipment blank contaminations and a "B" qualifier for sample results associated with method blank contamination.

Compound	Affected Samples
Acetone	86SFF4NWQ208 and 86SFF2NWQ208
Chloromethane	86SFF2NWQ208
Toluene	86SFF2NWQ208
Methylene Chloride	86SFF9NWQ208, 86SFF7NWQ208, 86SFFFDWQ208, 86SFF6NWQ208, 86SFF4NWQ208, and 86SFF2NWQ208
Naphthalene	86SFF6NWQ208, 86SFF4NWQ208, and 86SFF2NWQ208

Compound	Affected Samples
1-Methynaphthalene	86SFF6NWQ208, 86SFF4NWQ208, and 86SFF2NWQ208
2-Methylnaphthalene	86SFF6NWQ208, 86SFF4NWQ208, and 86SFF2NWQ208

The samples presented below were analyzed at dilutions for the analysis indicated. These dilutions were required to prevent saturation of the instrument, to allow quantitation of the compounds within the linear range of the calibration curve, and/or to reduce the effects of the matrix on the target compounds. Positive results for compounds reported above the calibration range in the initial analysis have been reported from the diluted analyses. When possible, results and quantitation limits for all other compounds were reported from the initial analysis. Higher quantitation limits were reported for specific volatile organic compounds and polyaromatic hydrocarbons analyses, which were not detected in the diluted sample. This should be noted when assessing these samples for the qualitative absence of specific volatile organic compounds and polyaromatic hydrocarbons compounds.

Sample ID	Analysis	Dilution Factor
86SFF7NWQ208	VOC	4X
86SFFFDWQ208	VOC	2X
86SFF9NWQ208	PAH	5X
86SFF7NWQ208	PAH	5X
86SFFFDWQ208	PAH	5X

Sample 86SFF7NWQ208 and its blind field duplicate sample 86SFFFDWQ208 were submitted to the laboratory to evaluate sampling and analytical precision for those compounds determined to be confidently detected. All compounds met CCI's blind duplicate precision criteria of 30% for water samples relative percent difference (RPD) for volatile organic and polyaromatic hydrocarbons analyses with the exception of acetone, benzene, ethylbenzene, isopropylbenzene, toluene, xylenes, acenaphthene, 2-methylnaphthalene, 1-methylnaphthalene, naphthalene, and petroleum range organics (PRO). A "J" qualifier was appended to results for these compounds in the native sample and field duplicate sample to indicate that the reported values should be considered quantitative estimates due to the field duplicate RPD exceedance. The RPD was not calculated for the compounds that were not detected in both samples.

Compound	Affected Samples
Acetone	86SFF7NWQ208
Benzene	86SFF7NWQ208 and 86SFFFDWQ208

Compound	Affected Samples
Ethylbenzene	86SFF7NWQ208 and 86SFFFDWQ208
Isopropylbenzene	86SFF7NWQ208 and 86SFFFDWQ208
Toluene	86SFF7NWQ208 and 86SFFFDWQ208
Xylenes	86SFF7NWQ208 and 86SFFFDWQ208
Acenaphthene	86SFF7NWQ208
2-Methylnaphthalene	86SFF7NWQ208 and 86SFFFDWQ208
1-Methylnaphthalene	86SFF7NWQ208 and 86SFFFDWQ208
Naphthalene	86SFF7NWQ208 and 86SFFFDWQ208
PRO	86SFF7NWQ208 and 86SFFFDWQ208

Inorganic Data Qualifiers

Sample 86SFF7NWQ208 and its blind field duplicate sample 86SFFFDWQ208 were submitted to the laboratory to evaluate sampling and analytical precision for those compounds determined to be confidently detected. All compounds met CCI's blind duplicate precision criteria of 30% for water samples relative percent difference (RPD) for metals analyses. The RPD was not calculated for the compounds that were not detected in both samples.

Summary

The organic and inorganic analyses were performed acceptably, but required qualifying statements. This analytical quality assurance report has identified the aspects of the data, which required qualification. These qualifiers are noted on the attached analytical sample summary reports. A support documentation package has been prepared for this quality assurance review and is filed with the Former NAS Cecil Field CTO 86/ Groundwater Sampling 2nd Event 2008 project file.

Attachment I

VALID QUALIFIERS

QUALIFIER	
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit
J	The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R/UR	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified.
B	The analyte was detected in the associated method and/or calibration blank.
JB	The analyte detected in the associated field, equipment, and/or trip blank.

QUALIFICATION CODE REFERENCE

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect.
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient is <0.995.
K	Second source %D was noncompliant.	Second source %D was noncompliant.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.
MB	Presumed contamination from preparation (method) blank.	Presumed contamination from preparation (method) blank or calibration blank.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or high RPD.	MS/MSD recovery was poor or high RPD.
G	Result is over the calibration range. No other acceptable result was provided.	Result is over the calibration range. Not other acceptable result was provided.
E	Not applicable.	Lab duplicate RPD showed poor agreement.
Z	Field duplicate RPD showed poor agreement.	Field duplicate RPD showed poor agreement
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D was not within control limits.
TN	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
T	Presumed contamination from trip blank.	Not applicable.
+	False positive—reported compound was not present.	Not applicable.
-	False negative—compound was present but not reported.	Not applicable.
F	Presumed contamination from FB or ER.	Presumed contamination from FB or ER.
$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.
D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Confirmation analysis RPD exceeded 40%.	Post Digestion Spike recovery was not within control limits.
T/D	Not applicable.	Total metals results were less than the dissolved metals result.
SD	Not applicable.	Seed correction factor was below the acceptable limit.
M	Results should be considered estimated due to matrix effects caused by saturation of non-target analytes.	Not applicable

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF9NWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V07088

Matrix: (soil/water) WATER Lab Sample ID: 0807088-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0708801

Level: (low/med) LOW Date Sampled: 07/09/08 15:40

% Moisture: not dec. _____ Date Analyzed: 07/16/08 06:18

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	1.7	10	6.9	J
71-43-2	Benzene	0.12	1.0		U
74-97-5	Bromochloromethane	0.15	2.0		U
75-27-4	Bromodichloromethane	0.12	0.50		U
75-25-2	Bromoform	0.13	1.0		U
74-83-9	Bromomethane	0.13	2.0		U J-C
78-93-3	2-Butanone (MEK)	1.4	10		U
75-15-0	Carbon disulfide	0.15	1.0		U
56-23-5	Carbon tetrachloride	0.11	1.0		U
108-90-7	Chlorobenzene	0.10	1.0	0.14	J
75-00-3	Chloroethane	0.14	2.0		U
67-66-3	Chloroform	0.13	1.0		U
74-87-3	Chloromethane	0.28	2.0	0.41	J
124-48-1	Dibromochloromethane	0.14	0.50		U
96-12-8	1,2-Dibromo-3-chloropropane	0.090	0.50		U
106-93-4	1,2-Dibromoethane	0.14	0.50		U
95-50-1	1,2-Dichlorobenzene	0.11	1.0		U
541-73-1	1,3-Dichlorobenzene	0.38	1.0		U
106-46-7	1,4-Dichlorobenzene	0.10	1.0		U
75-71-8	Dichlorodifluoromethane	0.25	2.0		U
75-34-3	1,1-Dichloroethane	0.11	1.0		U
107-06-2	1,2-Dichloroethane	0.13	1.0		U
75-35-4	1,1-Dichloroethene	0.13	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.14	1.0		U
156-60-5	trans-1,2-Dichloroethene	0.15	1.0		U
78-87-5	1,2-Dichloropropane	0.11	1.0		U
10061-01-5	cis-1,3-Dichloropropene	0.080	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.12	0.50		U
100-41-4	Ethylbenzene	0.35	1.0	16	
591-78-6	2-Hexanone (MBK)	0.18	5.0		U
98-82-8	Isopropylbenzene	0.11	0.50	10	
79-20-9	Methyl acetate	0.36	1.0		U
75-09-2	Methylene chloride	0.23	2.0	1.0	JB-T,MB
1634-04-4	Methyl-tert-butyl ether	0.10	1.0		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.35	5.0		U
100-42-5	Styrene	0.090	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.13	0.50		U
127-18-4	Tetrachloroethene	0.10	1.0		U
108-88-3	Toluene	0.16	1.0		U

FORM I VOA

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF9NWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V07088

Matrix: (soil/water) WATER Lab Sample ID: 0807088-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0708801

Level: (low/med) LOW Date Sampled: 07/09/08 15:40

% Moisture: not dec. _____ Date Analyzed: 07/16/08 06:18

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	0.57	1.0		U
120-82-1	1,2,4-Trichlorobenzene	0.57	1.0	1.6	
71-55-6	1,1,1-Trichloroethane	0.12	1.0		U
79-00-5	1,1,2-Trichloroethane	0.10	1.0		U
79-01-6	Trichloroethene	0.23	1.0		U
76-13-1	Trichlorotrifluoroethane	0.11	1.0		U
75-69-4	Trichlorofluoromethane	0.12	2.0		U
75-01-4	Vinyl chloride	0.20	1.0		U
1330-20-7	Xylene(total)	0.47	1.0	52	

FORM I VOA

c.d

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF7NWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V07088

Matrix: (soil/water) WATER Lab Sample ID: 0807088-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0708802D

Level: (low/med) LOW Date Sampled: 07/09/08 16:40

% Moisture: not dec. _____ Date Analyzed: 07/16/08 08:17

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 4.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	6.8	40	1500	~~D~~ J-Z
71-43-2	Benzene	0.48	4.0	220	~~D~~ J-Z
74-97-5	Bromochloromethane	0.60	8.0		~~UD~~ U
75-27-4	Bromodichloromethane	0.48	2.0		~~UD~~
75-25-2	Bromoform	0.52	4.0		~~UD~~
74-83-9	Bromomethane	0.52	8.0		~~UD~~ UJ-C
78-93-3	2-Butanone (MEK)	5.8	40		~~UD~~ U
75-15-0	Carbon disulfide	0.60	4.0		~~UD~~
56-23-5	Carbon tetrachloride	0.44	4.0		~~UD~~
108-90-7	Chlorobenzene	0.40	4.0		~~UD~~
75-00-3	Chloroethane	0.56	8.0		~~UD~~
67-66-3	Chloroform	0.52	4.0		~~UD~~
74-87-3	Chloromethane	1.1	8.0		~~UD~~
124-48-1	Dibromochloromethane	0.56	2.0		~~UD~~
96-12-8	1,2-Dibromo-3-chloropropane	0.36	2.0		~~UD~~
106-93-4	1,2-Dibromoethane	0.56	2.0		~~UD~~
95-50-1	1,2-Dichlorobenzene	0.44	4.0		~~UD~~
541-73-1	1,3-Dichlorobenzene	1.5	4.0		~~UD~~
106-46-7	1,4-Dichlorobenzene	0.40	4.0		~~UD~~
75-71-8	Dichlorodifluoromethane	1.0	8.0		~~UD~~
75-34-3	1,1-Dichloroethane	0.44	4.0		~~UD~~
107-06-2	1,2-Dichloroethane	0.52	4.0		~~UD~~
75-35-4	1,1-Dichloroethene	0.52	4.0		~~UD~~
156-59-2	cis-1,2-Dichloroethene	0.56	4.0		~~UD~~
156-60-5	trans-1,2-Dichloroethene	0.60	4.0		~~UD~~
78-87-5	1,2-Dichloropropane	0.44	4.0		~~UD~~
10061-01-5	cis-1,3-Dichloropropene	0.32	2.0		~~UD~~
10061-02-6	trans-1,3-Dichloropropene	0.48	2.0		~~UD~~
100-41-4	Ethylbenzene	1.4	4.0	360	~~D~~ J-Z
591-78-6	2-Hexanone (MBK)	0.72	20		~~UD~~ U
98-82-8	Isopropylbenzene	0.44	2.0	150	~~D~~ J-Z
79-20-9	Methyl acetate	1.4	4.0		~~UD~~ U
75-09-2	Methylene chloride	0.92	8.0	10	~~BD~~ JB-T,P
1634-04-4	Methyl-tert-butyl ether	0.40	4.0		~~UD~~ U
108-10-1	4-Methyl-2-pentanone (MIBK)	1.4	20		~~UD~~
100-42-5	Styrene	0.36	4.0		~~UD~~
79-34-5	1,1,2,2-Tetrachloroethane	0.52	2.0		~~UD~~
127-18-4	Tetrachloroethene	0.40	4.0		~~UD~~
108-88-3	Toluene	0.64	4.0	15	~~D~~ J-Z

FORM I VOA

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF7NWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V07088

Matrix: (soil/water) WATER Lab Sample ID: 0807088-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0708802D

Level: (low/med) LOW Date Sampled: 07/09/08 16:40

% Moisture: not dec. _____ Date Analyzed: 07/16/08 08:17

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 4.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	2.3	4.0		UD U
120-82-1	1,2,4-Trichlorobenzene	2.3	4.0		UD
71-55-6	1,1,1-Trichloroethane	0.48	4.0		UD
79-00-5	1,1,2-Trichloroethane	0.40	4.0		UD
79-01-6	Trichloroethene	0.92	4.0		UD
76-13-1	Trichlorotrifluoroethane	0.44	4.0		UD
75-69-4	Trichlorofluoromethane	0.48	8.0		UD
75-01-4	Vinyl chloride	0.80	4.0		UD
1330-20-7	Xylene(total)	1.9	4.0	1800	~~D~~ J-Z

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFFDWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V07088

Matrix: (soil/water) WATER Lab Sample ID: 0807088-03

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0708803D

Level: (low/med) LOW Date Sampled: 07/09/08 :

% Moisture: not dec. _____ Date Analyzed: 07/16/08 07:47

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 2.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	3.4	20		~~UD~~ U
71-43-2	Benzene	0.24	2.0	140	~~D~~ J-Z
74-97-5	Bromochloromethane	0.30	4.0		UD U
75-27-4	Bromodichloromethane	0.24	1.0		UD
75-25-2	Bromoform	0.26	2.0		UD
74-83-9	Bromomethane	0.26	4.0		~~UD~~ UJ-C
78-93-3	2-Butanone (MEK)	2.9	20		UD U
75-15-0	Carbon disulfide	0.30	2.0		UD
56-23-5	Carbon tetrachloride	0.22	2.0		UD
108-90-7	Chlorobenzene	0.20	2.0		UD
75-00-3	Chloroethane	0.28	4.0		UD
67-66-3	Chloroform	0.26	2.0		UD
74-87-3	Chloromethane	0.56	4.0		UD
124-48-1	Dibromochloromethane	0.28	1.0		UD
96-12-8	1,2-Dibromo-3-chloropropane	0.18	1.0		UD
106-93-4	1,2-Dibromoethane	0.28	1.0		UD
95-50-1	1,2-Dichlorobenzene	0.22	2.0		UD
541-73-1	1,3-Dichlorobenzene	0.76	2.0		UD
106-46-7	1,4-Dichlorobenzene	0.20	2.0		UD
75-71-8	Dichlorodifluoromethane	0.50	4.0		UD
75-34-3	1,1-Dichloroethane	0.22	2.0		UD
107-06-2	1,2-Dichloroethane	0.26	2.0		UD
75-35-4	1,1-Dichloroethene	0.26	2.0		UD
156-59-2	cis-1,2-Dichloroethene	0.28	2.0		UD
156-60-5	trans-1,2-Dichloroethene	0.30	2.0		UD
78-87-5	1,2-Dichloropropane	0.22	2.0		UD
10061-01-5	cis-1,3-Dichloropropene	0.16	1.0		UD
10061-02-6	trans-1,3-Dichloropropene	0.24	1.0		UD
100-41-4	Ethylbenzene	0.70	2.0	230	~~D~~ J-Z
591-78-6	2-Hexanone (MBK)	0.36	10		~~UD~~ U
98-82-8	Isopropylbenzene	0.22	1.0	97	~~D~~ J-Z
79-20-9	Methyl acetate	0.72	2.0		~~UD~~ U
75-09-2	Methylene chloride	0.46	4.0	4.1	~~BD~~ J8-T,M
1634-04-4	Methyl-tert-butyl ether	0.20	2.0		UD U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.70	10		UD
100-42-5	Styrene	0.18	2.0		UD
79-34-5	1,1,2,2-Tetrachloroethane	0.26	1.0		UD
127-18-4	Tetrachloroethene	0.20	2.0		UD
108-88-3	Toluene	0.32	2.0	9.0	~~D~~ J-Z

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFFDWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V07088

Matrix: (soil/water) WATER Lab Sample ID: 0807088-03

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0708803D

Level: (low/med) LOW Date Sampled: 07/09/08 :

% Moisture: not dec. _____ Date Analyzed: 07/16/08 07:47

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 2.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	1.1	2.0		UD
120-82-1	1,2,4-Trichlorobenzene	1.1	2.0		UD
71-55-6	1,1,1-Trichloroethane	0.24	2.0		UD
79-00-5	1,1,2-Trichloroethane	0.20	2.0		UD
79-01-6	Trichloroethene	0.46	2.0		UD
76-13-1	Trichlorotrifluoroethane	0.22	2.0		UD
75-69-4	Trichlorofluoromethane	0.24	4.0		UD
75-01-4	Vinyl chloride	0.40	2.0		UD
1330-20-7	Xylene(total)	0.94	2.0	1000	~~D~~ J-2

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFTBWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V07088

Matrix: (soil/water) WATER Lab Sample ID: 0807088-04

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0708804

Level: (low/med) LOW Date Sampled: 07/09/08 :

% Moisture: not dec. _____ Date Analyzed: 07/14/08 23:15

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	1.7	10		U
71-43-2	Benzene	0.12	1.0		U
74-97-5	Bromochloromethane	0.15	2.0		U
75-27-4	Bromodichloromethane	0.12	0.50		U
75-25-2	Bromoform	0.13	1.0		U
74-83-9	Bromomethane	0.13	2.0		U
78-93-3	2-Butanone (MEK)	1.4	10		U
75-15-0	Carbon disulfide	0.15	1.0		U
56-23-5	Carbon tetrachloride	0.11	1.0		U
108-90-7	Chlorobenzene	0.10	1.0		U
75-00-3	Chloroethane	0.14	2.0		U
67-66-3	Chloroform	0.13	1.0		U
74-87-3	Chloromethane	0.28	2.0		U
124-48-1	Dibromochloromethane	0.14	0.50		U
96-12-8	1,2-Dibromo-3-chloropropane	0.090	0.50		U
106-93-4	1,2-Dibromoethane	0.14	0.50		U
95-50-1	1,2-Dichlorobenzene	0.11	1.0		U
541-73-1	1,3-Dichlorobenzene	0.38	1.0		U
106-46-7	1,4-Dichlorobenzene	0.10	1.0		U
75-71-8	Dichlorodifluoromethane	0.25	2.0		U
75-34-3	1,1-Dichloroethane	0.11	1.0		U
107-06-2	1,2-Dichloroethane	0.13	1.0		U
75-35-4	1,1-Dichloroethene	0.13	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.14	1.0		U
156-60-5	trans-1,2-Dichloroethene	0.15	1.0		U
78-87-5	1,2-Dichloropropane	0.11	1.0		U
10061-01-5	cis-1,3-Dichloropropene	0.080	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.12	0.50		U
100-41-4	Ethylbenzene	0.35	1.0		U
591-78-6	2-Hexanone (MBK)	0.18	5.0		U
98-82-8	Isopropylbenzene	0.11	0.50		U
79-20-9	Methyl acetate	0.36	1.0		U
75-09-2	Methylene chloride	0.23	2.0	1.0	JB
1634-04-4	Methyl-tert-butyl ether	0.10	1.0		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.35	5.0		U
100-42-5	Styrene	0.090	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.13	0.50		U
127-18-4	Tetrachloroethene	0.10	1.0		U
108-88-3	Toluene	0.16	1.0		U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFTBWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V07088

Matrix: (soil/water) WATER Lab Sample ID: 0807088-04

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0708804

Level: (low/med) LOW Date Sampled: 07/09/08 :

% Moisture: not dec. _____ Date Analyzed: 07/14/08 23:15

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	0.57	1.0		U
120-82-1	1,2,4-Trichlorobenzene	0.57	1.0		U
71-55-6	1,1,1-Trichloroethane	0.12	1.0		U
79-00-5	1,1,2-Trichloroethane	0.10	1.0		U
79-01-6	Trichloroethene	0.23	1.0		U
76-13-1	Trichlorotrifluoroethane	0.11	1.0		U
75-69-4	Trichlorofluoromethane	0.12	2.0		U
75-01-4	Vinyl chloride	0.20	1.0		U
1330-20-7	Xylene(total)	0.47	1.0		U

FORM I VOA

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF9NWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B07088

Matrix: (soil/water) WATER Lab Sample ID: 0807088-01

Sample wt/vol: 1070 (g/mL) ML Lab File ID: 0708801

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/09/08 15:40

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/15/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/18/08 14:36

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.015	0.047		U
208-96-8	Acenaphthylene	0.015	0.047		U
120-12-7	Anthracene	0.015	0.047		U
56-55-3	Benzo(a)anthracene	0.015	0.047		U
205-99-2	Benzo(b)fluoranthene	0.015	0.047		U
207-08-9	Benzo(k)fluoranthene	0.015	0.047		U
191-24-2	Benzo(g,h,i)perylene	0.015	0.047		U
50-32-8	Benzo(a)pyrene	0.015	0.047		U
218-01-9	Chrysene	0.015	0.047		U
53-70-3	Dibenz(a,h)anthracene	0.015	0.047		U
206-44-0	Fluoranthene	0.015	0.047		U
86-73-7	Fluorene	0.015	0.047		U R-D
193-39-5	Indeno(1,2,3-cd)pyrene	0.017	0.047		U
91-57-6	2-Methylnaphthalene	0.018	0.047	50	E R-D
90-12-0	1-Methylnaphthalene	0.017	0.047	33	E
91-20-3	Naphthalene	0.018	0.047	44	E
85-01-8	Phenanthrene	0.015	0.047		U
129-00-0	Pyrene	0.015	0.047		U

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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF9NWQ208DL

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B07088

Matrix: (soil/water) WATER Lab Sample ID: 0807088-01DL

Sample wt/vol: 1070 (g/mL) ML Lab File ID: 0708801D

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/09/08 15:40

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/15/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/21/08 18:27

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.077	0.23		UD R-D
208-96-8	Acenaphthylene	0.077	0.23		UD
120-12-7	Anthracene	0.077	0.23		UD
56-55-3	Benzo(a)anthracene	0.077	0.23		UD
205-99-2	Benzo(b)fluoranthene	0.077	0.23		UD
207-08-9	Benzo(k)fluoranthene	0.077	0.23		UD
191-24-2	Benzo(g,h,i)perylene	0.077	0.23		UD
50-32-8	Benzo(a)pyrene	0.077	0.23		UD
218-01-9	Chrysene	0.077	0.23		UD
53-70-3	Dibenz(a,h)anthracene	0.077	0.23		UD
206-44-0	Fluoranthene	0.077	0.23		UD
86-73-7	Fluorene	0.077	0.23	0.50	~~D~~ J-N
193-39-5	Indeno(1,2,3-cd)pyrene	0.084	0.23		UD R-D
91-57-6	2-Methylnaphthalene	0.089	0.23	46	~~D~~ =
90-12-0	1-Methylnaphthalene	0.084	0.23	29	~~D~~ =
91-20-3	Naphthalene	0.091	0.23	42	~~D~~ =
85-01-8	Phenanthrene	0.077	0.23		UD R-D
129-00-0	Pyrene	0.077	0.23		UD

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF7NWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B07088

Matrix: (soil/water) WATER Lab Sample ID: 0807088-02

Sample wt/vol: 1070 (g/mL) ML Lab File ID: 0708802

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/09/08 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/15/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/18/08 15:15

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.015	0.047	0.060	J-Z
208-96-8	Acenaphthylene	0.015	0.047		U
120-12-7	Anthracene	0.015	0.047		U
56-55-3	Benzo(a)anthracene	0.015	0.047		U
205-99-2	Benzo(b)fluoranthene	0.015	0.047		U
207-08-9	Benzo(k)fluoranthene	0.015	0.047		U
191-24-2	Benzo(g,h,i)perylene	0.015	0.047		U
50-32-8	Benzo(a)pyrene	0.015	0.047		U
218-01-9	Chrysene	0.015	0.047		U
53-70-3	Dibenz(a,h)anthracene	0.015	0.047		U
206-44-0	Fluoranthene	0.015	0.047		U
86-73-7	Fluorene	0.015	0.047		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.017	0.047		U
91-57-6	2-Methylnaphthalene	0.018	0.047	11	J-Z
90-12-0	1-Methylnaphthalene	0.017	0.047	8.2	J-Z
91-20-3	Naphthalene	0.018	0.047	35	~~E~~ R-D
85-01-8	Phenanthrene	0.015	0.047		U
129-00-0	Pyrene	0.015	0.047		U

C-1

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF7NWQ208DL

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B07088

Matrix: (soil/water) WATER Lab Sample ID: 0807088-02DL

Sample wt/vol: 1070 (g/mL) ML Lab File ID: 0708802D

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/09/08 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted: 07/15/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/21/08 19:45

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.077	0.23		UD R-D
208-96-8	Acenaphthylene	0.077	0.23		UD
120-12-7	Anthracene	0.077	0.23		UD
56-55-3	Benzo(a)anthracene	0.077	0.23		UD
205-99-2	Benzo(b)fluoranthene	0.077	0.23		UD
207-08-9	Benzo(k)fluoranthene	0.077	0.23		UD
191-24-2	Benzo(g,h,i)perylene	0.077	0.23		UD
50-32-8	Benzo(a)pyrene	0.077	0.23		UD
218-01-9	Chrysene	0.077	0.23		UD
53-70-3	Dibenz(a,h)anthracene	0.077	0.23		UD
206-44-0	Fluoranthene	0.077	0.23		UD
86-73-7	Fluorene	0.077	0.23		UD
193-39-5	Indeno(1,2,3-cd)pyrene	0.084	0.23		UD
91-57-6	2-Methylnaphthalene	0.089	0.23	11	D
90-12-0	1-Methylnaphthalene	0.084	0.23	8.2	D
91-20-3	Naphthalene	0.091	0.23	37	D J-Z
85-01-8	Phenanthrene	0.077	0.23		UD R-D
129-00-0	Pyrene	0.077	0.23		UD

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFFDWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B07088

Matrix: (soil/water) WATER Lab Sample ID: 0807088-03

Sample wt/vol: 1060 (g/mL) ML Lab File ID: 0708803

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/09/08 :

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/15/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/18/08 15:53

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.016	0.047		U
208-96-8	Acenaphthylene	0.016	0.047		U
120-12-7	Anthracene	0.016	0.047		U
56-55-3	Benzo(a)anthracene	0.016	0.047		U
205-99-2	Benzo(b)fluoranthene	0.016	0.047		U
207-08-9	Benzo(k)fluoranthene	0.016	0.047		U
191-24-2	Benzo(g,h,i)perylene	0.016	0.047		U
50-32-8	Benzo(a)pyrene	0.016	0.047		U
218-01-9	Chrysene	0.016	0.047		U
53-70-3	Dibenz(a,h)anthracene	0.016	0.047		U
206-44-0	Fluoranthene	0.016	0.047		U
86-73-7	Fluorene	0.016	0.047		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.017	0.047		U
91-57-6	2-Methylnaphthalene	0.018	0.047	7.6	J-Z
90-12-0	1-Methylnaphthalene	0.017	0.047	5.4	J-Z
91-20-3	Naphthalene	0.018	0.047	24	~~E~~ R-D
85-01-8	Phenanthrene	0.016	0.047		U
129-00-0	Pyrene	0.016	0.047		U

c.l

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFFDWQ208DL

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B07088

Matrix: (soil/water) WATER Lab Sample ID: 0807088-03DL

Sample wt/vol: 1060 (g/mL) ML Lab File ID: 0708803D

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/09/08 :

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/15/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/21/08 19:06

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.078	0.24		UD R-D
208-96-8	Acenaphthylene	0.078	0.24		UD
120-12-7	Anthracene	0.078	0.24		UD
56-55-3	Benzo(a)anthracene	0.078	0.24		UD
205-99-2	Benzo(b)fluoranthene	0.078	0.24		UD
207-08-9	Benzo(k)fluoranthene	0.078	0.24		UD
191-24-2	Benzo(g,h,i)perylene	0.078	0.24		UD
50-32-8	Benzo(a)pyrene	0.078	0.24		UD
218-01-9	Chrysene	0.078	0.24		UD
53-70-3	Dibenz(a,h)anthracene	0.078	0.24		UD
206-44-0	Fluoranthene	0.078	0.24		UD
86-73-7	Fluorene	0.078	0.24		UD
193-39-5	Indeno(1,2,3-cd)pyrene	0.085	0.24		UD
91-57-6	2-Methylnaphthalene	0.090	0.24	7.6	D
90-12-0	1-Methylnaphthalene	0.085	0.24	5.5	D
91-20-3	Naphthalene	0.092	0.24	25	D J-Z
85-01-8	Phenanthrene	0.078	0.24		UD R-D
129-00-0	Pyrene	0.078	0.24		UD

FORM I SV

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF9NWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: EL Case No.: SAS No.: NA SDG No.: CH2.F07088

Matrix: (soil/water) WATER Lab Sample ID: 0807088-01

Sample wt/vol: 1060 (g/mL) ML Lab File ID: 024R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/09/08 15:40

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/15/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/16/08 04:49

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.16	0.47	7.6	

C-L

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF7NWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: EL Case No.: SAS No.: NA SDG No.: CH2.F07088

Matrix: (soil/water) WATER Lab Sample ID: 0807088-02

Sample wt/vol: 1070 (g/mL) ML Lab File ID: 025R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/09/08 16:40

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/15/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/16/08 05:31

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.16	0.47	4.4	J-Z

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFFDWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: EL Case No.: SAS No.: NA SDG No.: CH2.F07088

Matrix: (soil/water) WATER Lab Sample ID: 0807088-03

Sample wt/vol: 1070 (g/mL) ML Lab File ID: 026R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/09/08 :

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/15/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/16/08 06:14

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range _____	0.16	0.47	3.0	J-Z

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FORM I PRO

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFF9NWQ208

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0807088

Matrix (soil/water) WATER Lab Sample ID: 0807088-01

Level (low/med): LOW Date Received: 7/10/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	3.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFF7NWQ208

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0807088

Matrix (soil/water) WATER Lab Sample ID: 0807088-02

Level (low/med): LOW Date Received: 7/10/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	3.2			P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFFFDWQ208

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0807088

Matrix (soil/water) WATER Lab Sample ID: 0807088-03

Level (low/med): LOW Date Received: 7/10/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	3.5			P

c.L

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF6NWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V07098

Matrix: (soil/water) WATER Lab Sample ID: 0807098-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0709801

Level: (low/med) LOW Date Sampled: 07/10/08 09:40

% Moisture: not dec. _____ Date Analyzed: 07/17/08 02:25

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	1.7	10		U
71-43-2	Benzene	0.12	1.0	0.45	J
74-97-5	Bromochloromethane	0.15	2.0		U
75-27-4	Bromodichloromethane	0.12	0.50		U
75-25-2	Bromoform	0.13	1.0		U
74-83-9	Bromomethane	0.13	2.0		U J-C
78-93-3	2-Butanone (MEK)	1.4	10		U
75-15-0	Carbon disulfide	0.15	1.0		U
56-23-5	Carbon tetrachloride	0.11	1.0		U
108-90-7	Chlorobenzene	0.10	1.0		U
75-00-3	Chloroethane	0.14	2.0		U
67-66-3	Chloroform	0.13	1.0		U
74-87-3	Chloromethane	0.28	2.0		U
124-48-1	Dibromochloromethane	0.14	0.50		U
96-12-8	1,2-Dibromo-3-chloropropane	0.090	0.50		U
106-93-4	1,2-Dibromoethane	0.14	0.50		U
95-50-1	1,2-Dichlorobenzene	0.11	1.0		U
541-73-1	1,3-Dichlorobenzene	0.38	1.0		U
106-46-7	1,4-Dichlorobenzene	0.10	1.0		U
75-71-8	Dichlorodifluoromethane	0.25	2.0		U
75-34-3	1,1-Dichloroethane	0.11	1.0		U
107-06-2	1,2-Dichloroethane	0.13	1.0		U
75-35-4	1,1-Dichloroethene	0.13	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.14	1.0		U
156-60-5	trans-1,2-Dichloroethene	0.15	1.0		U
78-87-5	1,2-Dichloropropane	0.11	1.0		U
10061-01-5	cis-1,3-Dichloropropene	0.080	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.12	0.50		U
100-41-4	Ethylbenzene	0.35	1.0	2.1	
591-78-6	2-Hexanone (MBK)	0.18	5.0		U
98-82-8	Isopropylbenzene	0.11	0.50	10	
79-20-9	Methyl acetate	0.36	1.0		U
75-09-2	Methylene chloride	0.23	2.0	0.25	JB-F,T,M
1634-04-4	Methyl-tert-butyl ether	0.10	1.0		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.35	5.0		U
100-42-5	Styrene	0.090	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.13	0.50		U
127-18-4	Tetrachloroethene	0.10	1.0		U
108-88-3	Toluene	0.16	1.0		U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF6NWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V07098

Matrix: (soil/water) WATER Lab Sample ID: 0807098-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0709801

Level: (low/med) LOW Date Sampled: 07/10/08 09:40

% Moisture: not dec. _____ Date Analyzed: 07/17/08 02:25

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	0.57	1.0		UJ-C
120-82-1	1,2,4-Trichlorobenzene	0.57	1.0	2.3	
71-55-6	1,1,1-Trichloroethane	0.12	1.0		U
79-00-5	1,1,2-Trichloroethane	0.10	1.0		U
79-01-6	Trichloroethene	0.23	1.0		U
76-13-1	Trichlorotrifluoroethane	0.11	1.0		U
75-69-4	Trichlorofluoromethane	0.12	2.0		U
75-01-4	Vinyl chloride	0.20	1.0		U
1330-20-7	Xylene(total)	0.47	1.0		U

C-1

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF4NWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V07098

Matrix: (soil/water) WATER Lab Sample ID: 0807098-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0709802

Level: (low/med) LOW Date Sampled: 07/10/08 10:50

% Moisture: not dec. _____ Date Analyzed: 07/17/08 02:54

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	1.7	10	6.0	JB-F
71-43-2	Benzene	0.12	1.0		U
74-97-5	Bromochloromethane	0.15	2.0		U
75-27-4	Bromodichloromethane	0.12	0.50		U
75-25-2	Bromoform	0.13	1.0		U
74-83-9	Bromomethane	0.13	2.0		UJ-C
78-93-3	2-Butanone (MEK)	1.4	10		U
75-15-0	Carbon disulfide	0.15	1.0		U
56-23-5	Carbon tetrachloride	0.11	1.0		U
108-90-7	Chlorobenzene	0.10	1.0		U
75-00-3	Chloroethane	0.14	2.0		U
67-66-3	Chloroform	0.13	1.0		U
74-87-3	Chloromethane	0.28	2.0		U
124-48-1	Dibromochloromethane	0.14	0.50		U
96-12-8	1,2-Dibromo-3-chloropropane	0.090	0.50		U
106-93-4	1,2-Dibromoethane	0.14	0.50		U
95-50-1	1,2-Dichlorobenzene	0.11	1.0		U
541-73-1	1,3-Dichlorobenzene	0.38	1.0		U
106-46-7	1,4-Dichlorobenzene	0.10	1.0		U
75-71-8	Dichlorodifluoromethane	0.25	2.0		U
75-34-3	1,1-Dichloroethane	0.11	1.0		U
107-06-2	1,2-Dichloroethane	0.13	1.0		U
75-35-4	1,1-Dichloroethene	0.13	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.14	1.0		U
156-60-5	trans-1,2-Dichloroethene	0.15	1.0		U
78-87-5	1,2-Dichloropropane	0.11	1.0		U
10061-01-5	cis-1,3-Dichloropropene	0.080	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.12	0.50		U
100-41-4	Ethylbenzene	0.35	1.0		U
591-78-6	2-Hexanone (MBK)	0.18	5.0		U
98-82-8	Isopropylbenzene	0.11	0.50	2.0	
79-20-9	Methyl acetate	0.36	1.0		U
75-09-2	Methylene chloride	0.23	2.0	0.35	JB-F,T,M
1634-04-4	Methyl-tert-butyl ether	0.10	1.0		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.35	5.0		U
100-42-5	Styrene	0.090	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.13	0.50		U
127-18-4	Tetrachloroethene	0.10	1.0		U
108-88-3	Toluene	0.16	1.0		U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF4NWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V07098

Matrix: (soil/water) WATER Lab Sample ID: 0807098-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0709802

Level: (low/med) LOW Date Sampled: 07/10/08 10:50

% Moisture: not dec. _____ Date Analyzed: 07/17/08 02:54

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	0.57	1.0		U J-C
120-82-1	1,2,4-Trichlorobenzene	0.57	1.0		U
71-55-6	1,1,1-Trichloroethane	0.12	1.0		U
79-00-5	1,1,2-Trichloroethane	0.10	1.0		U
79-01-6	Trichloroethene	0.23	1.0		U
76-13-1	Trichlorotrifluoroethane	0.11	1.0		U
75-69-4	Trichlorofluoromethane	0.12	2.0		U
75-01-4	Vinyl chloride	0.20	1.0		U
1330-20-7	Xylene(total)	0.47	1.0		U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF2NWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V07098

Matrix: (soil/water) WATER Lab Sample ID: 0807098-03

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0709803

Level: (low/med) LOW Date Sampled: 07/10/08 11:48

% Moisture: not dec. _____ Date Analyzed: 07/17/08 03:24

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	1.7	10	5.8	JB-F
71-43-2	Benzene	0.12	1.0		U
74-97-5	Bromochloromethane	0.15	2.0		U
75-27-4	Bromodichloromethane	0.12	0.50		U
75-25-2	Bromoform	0.13	1.0		U
74-83-9	Bromomethane	0.13	2.0		U J-C
78-93-3	2-Butanone (MEK)	1.4	10		U
75-15-0	Carbon disulfide	0.15	1.0		U
56-23-5	Carbon tetrachloride	0.11	1.0		U
108-90-7	Chlorobenzene	0.10	1.0		U
75-00-3	Chloroethane	0.14	2.0		U
67-66-3	Chloroform	0.13	1.0		U
74-87-3	Chloromethane	0.28	2.0	0.35	JB-F
124-48-1	Dibromochloromethane	0.14	0.50		U
96-12-8	1,2-Dibromo-3-chloropropane	0.090	0.50		U
106-93-4	1,2-Dibromoethane	0.14	0.50		U
95-50-1	1,2-Dichlorobenzene	0.11	1.0		U
541-73-1	1,3-Dichlorobenzene	0.38	1.0		U
106-46-7	1,4-Dichlorobenzene	0.10	1.0		U
75-71-8	Dichlorodifluoromethane	0.25	2.0		U
75-34-3	1,1-Dichloroethane	0.11	1.0		U
107-06-2	1,2-Dichloroethane	0.13	1.0		U
75-35-4	1,1-Dichloroethene	0.13	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.14	1.0		U
156-60-5	trans-1,2-Dichloroethene	0.15	1.0		U
78-87-5	1,2-Dichloropropane	0.11	1.0		U
10061-01-5	cis-1,3-Dichloropropene	0.080	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.12	0.50		U
100-41-4	Ethylbenzene	0.35	1.0	28	
591-78-6	2-Hexanone (MBK)	0.18	5.0		U
98-82-8	Isopropylbenzene	0.11	0.50	2.6	
79-20-9	Methyl acetate	0.36	1.0		U
75-09-2	Methylene chloride	0.23	2.0	0.45	JB-F,T,M
1634-04-4	Methyl-tert-butyl ether	0.10	1.0		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.35	5.0		U
100-42-5	Styrene	0.090	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.13	0.50		U
127-18-4	Tetrachloroethene	0.10	1.0		U
108-88-3	Toluene	0.16	1.0	7.4	JB-F

FORM I VOA

C.K

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF2NWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V07098

Matrix: (soil/water) WATER Lab Sample ID: 0807098-03

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0709803

Level: (low/med) LOW Date Sampled: 07/10/08 11:48

% Moisture: not dec. _____ Date Analyzed: 07/17/08 03:24

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	0.57	1.0		U J-C
120-82-1	1,2,4-Trichlorobenzene	0.57	1.0		U
71-55-6	1,1,1-Trichloroethane	0.12	1.0		U
79-00-5	1,1,2-Trichloroethane	0.10	1.0		U
79-01-6	Trichloroethene	0.23	1.0		U
76-13-1	Trichlorotrifluoroethane	0.11	1.0		U
75-69-4	Trichlorofluoromethane	0.12	2.0		U
75-01-4	Vinyl chloride	0.20	1.0		U
1330-20-7	Xylene(total)	0.47	1.0	60	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFEB1WQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V07098

Matrix: (soil/water) WATER Lab Sample ID: 0807098-04

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0709804

Level: (low/med) LOW Date Sampled: 07/10/08 12:45

% Moisture: not dec. _____ Date Analyzed: 07/17/08 01:55

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	1.7	10	2.4	J
71-43-2	Benzene	0.12	1.0		U
74-97-5	Bromochloromethane	0.15	2.0		U
75-27-4	Bromodichloromethane	0.12	0.50		U
75-25-2	Bromoform	0.13	1.0		U
74-83-9	Bromomethane	0.13	2.0		U
78-93-3	2-Butanone (MEK)	1.4	10		U
75-15-0	Carbon disulfide	0.15	1.0		U
56-23-5	Carbon tetrachloride	0.11	1.0		U
108-90-7	Chlorobenzene	0.10	1.0		U
75-00-3	Chloroethane	0.14	2.0		U
67-66-3	Chloroform	0.13	1.0		U
74-87-3	Chloromethane	0.28	2.0	0.40	J
124-48-1	Dibromochloromethane	0.14	0.50		U
96-12-8	1,2-Dibromo-3-chloropropane	0.090	0.50		U
106-93-4	1,2-Dibromoethane	0.14	0.50		U
95-50-1	1,2-Dichlorobenzene	0.11	1.0		U
541-73-1	1,3-Dichlorobenzene	0.38	1.0		U
106-46-7	1,4-Dichlorobenzene	0.10	1.0		U
75-71-8	Dichlorodifluoromethane	0.25	2.0		U
75-34-3	1,1-Dichloroethane	0.11	1.0		U
107-06-2	1,2-Dichloroethane	0.13	1.0	0.25	J
75-35-4	1,1-Dichloroethene	0.13	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.14	1.0		U
156-60-5	trans-1,2-Dichloroethene	0.15	1.0		U
78-87-5	1,2-Dichloropropane	0.11	1.0		U
10061-01-5	cis-1,3-Dichloropropene	0.080	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.12	0.50		U
100-41-4	Ethylbenzene	0.35	1.0		U
591-78-6	2-Hexanone (MBK)	0.18	5.0		U
98-82-8	Isopropylbenzene	0.11	0.50		U
79-20-9	Methyl acetate	0.36	1.0		U
75-09-2	Methylene chloride	0.23	2.0	3.3	~~B~~
1634-04-4	Methyl-tert-butyl ether	0.10	1.0		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.35	5.0		U
100-42-5	Styrene	0.090	1.0	0.24	J
79-34-5	1,1,2,2-Tetrachloroethane	0.13	0.50		U
127-18-4	Tetrachloroethene	0.10	1.0	0.17	J
108-88-3	Toluene	0.16	1.0	3.0	

FORM I VOA

C.L

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFEB1WQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V07098

Matrix: (soil/water) WATER Lab Sample ID: 0807098-04

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0709804

Level: (low/med) LOW Date Sampled: 07/10/08 12:45

% Moisture: not dec. _____ Date Analyzed: 07/17/08 01:55

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	0.57	1.0		U
120-82-1	1,2,4-Trichlorobenzene	0.57	1.0		U
71-55-6	1,1,1-Trichloroethane	0.12	1.0		U
79-00-5	1,1,2-Trichloroethane	0.10	1.0		U
79-01-6	Trichloroethene	0.23	1.0		U
76-13-1	Trichlorotrifluoroethane	0.11	1.0		U
75-69-4	Trichlorofluoromethane	0.12	2.0		U
75-01-4	Vinyl chloride	0.20	1.0		U
1330-20-7	Xylene(total)	0.47	1.0		U

C.L

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFTBWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V07098

Matrix: (soil/water) WATER Lab Sample ID: 0807098-05

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0709805

Level: (low/med) LOW Date Sampled: 07/10/08 :

% Moisture: not dec. _____ Date Analyzed: 07/17/08 00:55

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	1.7	10		U
71-43-2	Benzene	0.12	1.0		U
74-97-5	Bromochloromethane	0.15	2.0		U
75-27-4	Bromodichloromethane	0.12	0.50		U
75-25-2	Bromoform	0.13	1.0		U
74-83-9	Bromomethane	0.13	2.0		U
78-93-3	2-Butanone (MEK)	1.4	10		U
75-15-0	Carbon disulfide	0.15	1.0		U
56-23-5	Carbon tetrachloride	0.11	1.0		U
108-90-7	Chlorobenzene	0.10	1.0		U
75-00-3	Chloroethane	0.14	2.0		U
67-66-3	Chloroform	0.13	1.0		U
74-87-3	Chloromethane	0.28	2.0		U
124-48-1	Dibromochloromethane	0.14	0.50		U
96-12-8	1,2-Dibromo-3-chloropropane	0.090	0.50		U
106-93-4	1,2-Dibromoethane	0.14	0.50		U
95-50-1	1,2-Dichlorobenzene	0.11	1.0		U
541-73-1	1,3-Dichlorobenzene	0.38	1.0		U
106-46-7	1,4-Dichlorobenzene	0.10	1.0		U
75-71-8	Dichlorodifluoromethane	0.25	2.0		U
75-34-3	1,1-Dichloroethane	0.11	1.0		U
107-06-2	1,2-Dichloroethane	0.13	1.0		U
75-35-4	1,1-Dichloroethene	0.13	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.14	1.0		U
156-60-5	trans-1,2-Dichloroethene	0.15	1.0		U
78-87-5	1,2-Dichloropropane	0.11	1.0		U
10061-01-5	cis-1,3-Dichloropropene	0.080	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.12	0.50		U
100-41-4	Ethylbenzene	0.35	1.0		U
591-78-6	2-Hexanone (MBK)	0.18	5.0		U
98-82-8	Isopropylbenzene	0.11	0.50		U
79-20-9	Methyl acetate	0.36	1.0		U
75-09-2	Methylene chloride	0.23	2.0	0.88	~~JB~~
1634-04-4	Methyl-tert-butyl ether	0.10	1.0		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.35	5.0		U
100-42-5	Styrene	0.090	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.13	0.50		U
127-18-4	Tetrachloroethene	0.10	1.0		U
108-88-3	Toluene	0.16	1.0		U

FORM I VOA

c-1

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFTBWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V07098

Matrix: (soil/water) WATER Lab Sample ID: 0807098-05

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0709805

Level: (low/med) LOW Date Sampled: 07/10/08 :

% Moisture: not dec. _____ Date Analyzed: 07/17/08 00:55

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	0.57	1.0		U
120-82-1	1,2,4-Trichlorobenzene	0.57	1.0		U
71-55-6	1,1,1-Trichloroethane	0.12	1.0		U
79-00-5	1,1,2-Trichloroethane	0.10	1.0		U
79-01-6	Trichloroethene	0.23	1.0		U
76-13-1	Trichlorotrifluoroethane	0.11	1.0		U
75-69-4	Trichlorofluoromethane	0.12	2.0		U
75-01-4	Vinyl chloride	0.20	1.0		U
1330-20-7	Xylene(total)	0.47	1.0		U

M.L

FORM I VOA

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF6NWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B07098

Matrix: (soil/water) WATER Lab Sample ID: 0807098-01

Sample wt/vol: 1070 (g/mL) ML Lab File ID: 0709801

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/10/08 09:40

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/15/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/18/08 16:32

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.015	0.047	0.12	
208-96-8	Acenaphthylene	0.015	0.047		U
120-12-7	Anthracene	0.015	0.047		U
56-55-3	Benzo(a)anthracene	0.015	0.047		U
205-99-2	Benzo(b)fluoranthene	0.015	0.047		U
207-08-9	Benzo(k)fluoranthene	0.015	0.047		U
191-24-2	Benzo(g,h,i)perylene	0.015	0.047		U
50-32-8	Benzo(a)pyrene	0.015	0.047		U
218-01-9	Chrysene	0.015	0.047		U
53-70-3	Dibenz(a,h)anthracene	0.015	0.047		U
206-44-0	Fluoranthene	0.015	0.047		U
86-73-7	Fluorene	0.015	0.047		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.017	0.047		U
91-57-6	2-Methylnaphthalene	0.018	0.047	2.4	JB-F
90-12-0	1-Methylnaphthalene	0.017	0.047	1.8	JB-F
91-20-3	Naphthalene	0.018	0.047	0.41	JB-F
85-01-8	Phenanthrene	0.015	0.047	0.14	
129-00-0	Pyrene	0.015	0.047		U

P.L

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF4NWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B07098

Matrix: (soil/water) WATER Lab Sample ID: 0807098-02

Sample wt/vol: 1070 (g/mL) ML Lab File ID: 0709802

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/10/08 10:50

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/15/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/18/08 17:10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.015	0.047	1.5	
208-96-8	Acenaphthylene	0.015	0.047		U
120-12-7	Anthracene	0.015	0.047		U
56-55-3	Benzo(a)anthracene	0.015	0.047		U
205-99-2	Benzo(b)fluoranthene	0.015	0.047		U
207-08-9	Benzo(k)fluoranthene	0.015	0.047		U
191-24-2	Benzo(g,h,i)perylene	0.015	0.047		U
50-32-8	Benzo(a)pyrene	0.015	0.047		U
218-01-9	Chrysene	0.015	0.047		U
53-70-3	Dibenz(a,h)anthracene	0.015	0.047		U
206-44-0	Fluoranthene	0.015	0.047		U
86-73-7	Fluorene	0.015	0.047	0.52	
193-39-5	Indeno(1,2,3-cd)pyrene	0.017	0.047		U
91-57-6	2-Methylnaphthalene	0.018	0.047	0.58	JB-F
90-12-0	1-Methylnaphthalene	0.017	0.047	0.44	JB-F
91-20-3	Naphthalene	0.018	0.047	0.44	JB-F
85-01-8	Phenanthrene	0.015	0.047		U
129-00-0	Pyrene	0.015	0.047	0.12	

CA

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF2NWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B07098

Matrix: (soil/water) WATER Lab Sample ID: 0807098-03

Sample wt/vol: 1070 (g/mL) ML Lab File ID: 0709803

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/10/08 11:48

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/15/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/18/08 17:49

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.015	0.047		U
208-96-8	Acenaphthylene	0.015	0.047		U
120-12-7	Anthracene	0.015	0.047		U
56-55-3	Benzo(a)anthracene	0.015	0.047		U
205-99-2	Benzo(b)fluoranthene	0.015	0.047		U
207-08-9	Benzo(k)fluoranthene	0.015	0.047		U
191-24-2	Benzo(g,h,i)perylene	0.015	0.047		U
50-32-8	Benzo(a)pyrene	0.015	0.047		U
218-01-9	Chrysene	0.015	0.047		U
53-70-3	Dibenz(a,h)anthracene	0.015	0.047		U
206-44-0	Fluoranthene	0.015	0.047		U
86-73-7	Fluorene	0.015	0.047		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.017	0.047		U
91-57-6	2-Methylnaphthalene	0.018	0.047	5.5	JB-F
90-12-0	1-Methylnaphthalene	0.017	0.047	3.1	JB-F
91-20-3	Naphthalene	0.018	0.047	13	JB-F
85-01-8	Phenanthrene	0.015	0.047		U
129-00-0	Pyrene	0.015	0.047		U

CA

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFEB1WQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL-CECIL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B07098

Matrix: (soil/water) WATER Lab Sample ID: 0807098-04

Sample wt/vol: 1060 (g/mL) ML Lab File ID: 0709804

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/10/08 12:45

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/15/08

Concentrated Extract Volume: 500.0(uL) Date Analyzed: 07/18/08 18:27

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.016	0.047		U
208-96-8	Acenaphthylene	0.016	0.047		U
120-12-7	Anthracene	0.016	0.047		U
56-55-3	Benzo(a)anthracene	0.016	0.047		U
205-99-2	Benzo(b)fluoranthene	0.016	0.047		U
207-08-9	Benzo(k)fluoranthene	0.016	0.047		U
191-24-2	Benzo(g,h,i)perylene	0.016	0.047		U
50-32-8	Benzo(a)pyrene	0.016	0.047		U
218-01-9	Chrysene	0.016	0.047		U
53-70-3	Dibenz(a,h)anthracene	0.016	0.047		U
206-44-0	Fluoranthene	0.016	0.047		U
86-73-7	Fluorene	0.016	0.047		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.017	0.047		U
91-57-6	2-Methylnaphthalene	0.018	0.047	0.045	J
90-12-0	1-Methylnaphthalene	0.017	0.047	0.029	J
91-20-3	Naphthalene	0.018	0.047	0.12	
85-01-8	Phenanthrene	0.016	0.047		U
129-00-0	Pyrene	0.016	0.047		U

c·A

FORM I SV

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF6NWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: EL Case No.: SAS No.: NA SDG No.: CH2.F07098

Matrix: (soil/water) WATER Lab Sample ID: 0807098-01

Sample wt/vol: 1070 (g/mL) ML Lab File ID: 028R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/10/08 09:40

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/15/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/16/08 07:40

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.16	0.47	4.5	

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF4NWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: EL Case No.: SAS No.: NA SDG No.: CH2.F07098

Matrix: (soil/water) WATER Lab Sample ID: 0807098-02

Sample wt/vol: 1050 (g/mL) ML Lab File ID: 031R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/10/08 10:50

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/15/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/16/08 09:49

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.16	0.48	3.7	J-S

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF2NWQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: EL Case No.: SAS No.: NA SDG No.: CH2.F07098

Matrix: (soil/water) WATER Lab Sample ID: 0807098-03

Sample wt/vol: 1060 (g/mL) ML Lab File ID: 032R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/10/08 11:48

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/15/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/16/08 10:32

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.16	0.47	8.3	

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFEB1WQ208

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: EL Case No.: SAS No.: NA SDG No.: CH2.F07098

Matrix: (soil/water) WATER Lab Sample ID: 0807098-04

Sample wt/vol: 1070 (g/mL) ML Lab File ID: 033R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 07/10/08 12:45

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:07/15/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 07/16/08 11:14

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.16	0.47		U

C-2

FORM I PRO

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFF6NWQ208

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0807098

Matrix (soil/water) WATER Lab Sample ID: 0807098-01

Level (low/med): LOW Date Received: 7/11/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	9.1			P

CA

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFF4NWQ208

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0807098

Matrix (soil/water) WATER Lab Sample ID: 0807098-02

Level (low/med): LOW Date Received: 7/11/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	2.6	B	J	P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFF2NWQ208

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0807098

Matrix (soil/water) WATER Lab Sample ID: 0807098-03

Level (low/med): LOW Date Received: 7/11/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	2.9	~~B~~	J	P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFFEB1WQ208

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0807098

Matrix (soil/water) WATER Lab Sample ID: 0807098-04

Level (low/med): LOW Date Received: 7/11/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	3.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

CH2MHILL Constructors, Inc.
1000 Abernathy Road, Suite 1600
Atlanta, GA 30328
Tel No: (770) 604-9182
Fax No: (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
271591-055 page 1 of 1

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
Former N.A.S. Cecil Field South Fuel Farm	271591	Empirical Laboratories Marcia McGinnity	Bethany Garvey / CH2MHILL Constructors, Inc.	Northpark 400, 1000 Abernathy Road, Suite 1600; Atlanta, GA 30328 (770)604-9182 / FAX:604-9282
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
South Fuel Farm GW Sampling Event	0086		Sam Naik / CH2MHILL Constructors, Inc.	Northpark 400, 1000 Abernathy Road, Suite 1600; Atlanta, GA 30328 (770)604-9182 / FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Sam Naik	Ph:(904)777-4812 Fax:(904) 777-4262	Ph: 615-345-1119 ext 232 Fax: 615-207-9918		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	Volatiles by 8260B	PAHs by 8270C (Incl. 1-Methylnaphthalene & 2-Methylnaphthalene)	TRPH by FL-PRO	Metals-Lead only by 6010B				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	86SFF9NWQ208	CEF-043-9N	W	07/09/08	1540	III/C	14	3	2	2	1				N	08067088 -	01
2	86SFF7NWQ208	CEF-043-7N	W	07/09/08	1640	III/C	14	3	2	2	1				N	-	02
3	86SFFFDWQ208	Field Duplicate	W	07/09/08	NA	III/C	14	3	2	2	1				FD	-	03
4	86SFFTBWQ208	Trip Blank	W	NA	NA	III/C	14	2								lab # 5937 -	04
5																*COOLER 1 of 2*	
6																	
7																	
8																	
9																	
10																	

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Andrew O'Conor / Darryl Gates CH2MHILL	Federal Express Tracking Numbers # 7900 4937 7155, 7984 7646 5399	4.6°C, 3.6°C

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Andrew O'Conor	7/9/2008	18:00	Printed Name and Signature: Federal Express Tracking Numbers	7/9/2008	18:00
Printed Name and Signature:			Printed Name and Signature: William Schwab	7/10/08	09:00
Printed Name and Signature:			Printed Name and Signature: E.J. Overby	7-10-08	9:00

CH2MHILL Constructors, Inc.
1000 Abernathy Road, Suite 1600
Atlanta, GA 30328
Tel No: (770) 604-9182
Fax No: (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
271591-056 page 1 of 1

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
Former N.A.S. Cecil Field South Fuel Farm	271591	Empirical Laboratories Marcia McGinnity	Bethany Garvey / CH2MHILL Constructors, Inc.	Northpark 400, 1000 Abernathy Road, Suite 1600; Atlanta, GA 30328 (770)604-9182 / FAX:604-9282
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
South Fuel Farm GW Sampling Event	0086		Sam Naik / CH2MHILL Constructors, Inc.	Northpark 400, 1000 Abernathy Road, Suite 1600; Atlanta, GA 30328 (770)604-9182 / FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Sam Naik	Ph:(904)777-4812 Fax:(904) 777-4262	Ph: 615-345-1119 ext 232 Fax: 615-207-9918		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	Volatiles by 8260B	PAHs by 8270C (incl. 1-Methylnaphthalene & 2-Methylnaphthalene)	TRPH by FL-PRO	Metals-Lead only by 6010B				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS 6807098	LAB ID
1	86SFF6NWQ208	CEF-043-6N	W	07/10/08	0940	III/C	14	3	2	2	1				N	MS/MSD	-01
2	86SFF4NWQ208	CEF-043-4N	W	07/10/08	1050	III/C	14	3	2	2	1				N		-02
3	86SFF2NWQ208	CEF-043-2N	W	07/10/08	1148	III/C	14	3	2	2	1				N		-03
4	86SFFMSWQ208	Matrix Spike	W	07/10/08	0940	III/C	14	3	2	2	1				MS	CEF-043-6N	-01
5	86SFFMSDWQ208	Matrix Spike Duplicate	W	07/10/08	0940	III/C	14	3	2	2	1				SD	CEF-043-6N	-01
6	86SFFEB1WQ208	Equipment Blank	W	07/10/08	1245	III/C	14	3	1	1	1				EB		-04
7	86SFFTBWQ208	Trip Blank	W	NA	NA	III/C	14	2								lab # 5938	-05
8																	
9																1 of 3 coolers	
10																	

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Andrew O'Conor / Darryl Gates CH2MHILL	Federal Express Tracking Numbers # 7900 5001 0194, 7900 5001 5163, 7984 7710 7442	4.6°C, 5.2°C, 4.5°C

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Andrew O'Conor	7/10/2008	18:00	Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature: William Schwab	7/11/08	09:00

4

NAS Cecil Field

PREPARED FOR:	Former NAS Cecil Field / Groundwater Sampling 3rd Event 2008
FINAL REVEIWER:	Camden Robinson/ Associate Project Chemist/CH2M HILL
COPIES:	Sam Naik /Project Manager/CCI
DATE:	December 18, 2008
SUBJECT:	Quality Assessment for Samples Collected November 6th, 2008

This quality assurance memorandum is based upon a review of analytical data generated for groundwater samples and associated field quality control samples collected November 6th, 2008 at the Former Naval Air Station Cecil Field in Jacksonville, Florida. The samples were collected as a part of the Groundwater sampling event conducted at the site. Table 1-1 presents a summary of the CCI sample identification numbers, laboratory sample identification numbers, dates of collection, and the analyses performed.

Empirical Laboratories, Inc. of Nashville, Tennessee served as the laboratory for this Groundwater sampling event for the following analyses:

- Volatile Organic Compounds (VOC) by SW-846 method 8260B
- Polyaromatic nuclear hydrocarbons (PAH) by SW-846 method 8270 SIM,
- Total petroleum hydrocarbons (TPH) by method FL-PRO,
- Lead by SW-846 method 6010B

Table 1-1 ***Summary Sample Data Reviewed Former NAS Cecil Field***

Sample Number	Lab Sample ID	Date Sampled	Analysis Required
86SFF2NWQ308	0811103-01	11/06/2008	[1], [2], [3], [4]
86SFF4NWQ308	0811103-02	11/06/2008	[1], [2], [3], [4]
86SFF6NWQ308	0811103-03	11/06/2008	[1], [2], [3], [4]
86SFF7NWQ308	0811103-04	11/06/2008	[1], [2], [3], [4]
86SFF9NWQ308	0811103-05	11/06/2008	[1], [2], [3], [4]
*86SFFFDWQ308	0811103-06	11/06/2008	[1], [2], [3], [4]
86SFFEBWQ308	0811103-07	11/06/2008	[1], [2], [3], [4]

Sample Number	Lab Sample ID	Date Sampled	Analysis Required
86SFFTBWQ308	0811103-08	11/06/2008	[1]

ANALYSES PERFORMED CODES:
[1] –Volatile Organic Compounds (VOC) by method SW846 8260B,
[2] –Polyaromatic nuclear hydrocarbons (PAH) by method SW846 8270 SIM,
[3] – Total Petroleum Hydrocarbons (TPH) by method FL-PRO,
[4] – Lead by method SW846 6010B
* *86SFFFDWQ308 is the blind field duplicate of 86SFF2NWQ308*

Data for the analyses were reviewed for adherence to the specified analytical protocols in accordance with CCI Sampling Analysis Plan. All analysis results have been validated or qualified according to general guidance provided in the Department of Defense (DOD) Quality Systems Manual-Version 2 June 2002.

The findings of this quality assurance report are based upon the comprehensive review of the following results summaries reported according to the CCI Level C (CLP-like data deliverables format): chain of custody documentation, holding times, laboratory method and field blank analyses, surrogate compound recoveries, matrix spike compound recoveries and reproducibility, bromofluorobenzene (BFB) mass tuning results, initial and continuing calibration, second source recovery and internal standard area performance summaries, target compound identification, laboratory control sample results, laboratory and blind field duplicate sample results, detection limits/sensitivity, ICP interference check sample results, ICP serial dilution results, metals post digestion spikes, and electronic data deliverables.

The analyses were performed acceptably, but require several qualifying statements; it is recommended that the analytical data be used only with the qualifying statements provided below. Any aspects of the data, which are not discussed in this report, should be considered qualitatively and quantitatively valid as reported, based on the deliverables reviewed. A result summary report presenting the validated and qualified results is presented in Attachment I.

General Data Qualifiers

As required by U.S. EPA protocols, all compounds which were qualitatively identified at concentrations below their respective reporting limits (RL) but above the method detection limit (MDL) have been qualified with "J" qualifiers on the data summary reports to indicate that they are quantitative estimates.

GROUNDWATER CLEANUP TARGET ACTION LEVEL REGULARTORY LIMITS

All samples collected and analyzed for the month of November 2008 for the volatile organic compounds, polyaromatic hydrocarbon compounds, total petroleum hydrocarbon, and lead analyses were less than the action level groundwater cleanup target level regulartory limits with the exception of the analytes listed below:

Analyte (Volatile List)	Affected Sample	Sample Results (ug/L)	Groundwater Cleanup Target Levels (ug/L)
Benzene	86SFF7NWQ308	39	1
Ethylbenzene	86SFF7NWQ308	74	30
Isopropylbenzene (Cumene)	86SFF2NWQ308	2.3	0.8
Isopropylbenzene (Cumene)	86SFF4NWQ308	0.83	0.8
Isopropylbenzene (Cumene)	86SFF6NWQ308	0.83	0.8
Isopropylbenzene (Cumene)	86SFF7NWQ308	29	0.8
Isopropylbenzene (Cumene)	86SFF9NWQ308	8.8	0.8
Xylenes (total)	86SFF7NWQ308	290	20

Analyte (PAH List)	Affected Sample	Sample Results (ug/L)	Groundwater Cleanup Target Levels (ug/L)
Naphthalene	86SFF9NWQ308	26 JB	14

Organic Data Qualifiers

The quantitation limits or positive results reported for volatile organic compounds 1,2,3-trichlorobenzene, acetone, bromomethane, carbon disulfide, chloroethane, chloromethane, dichlorodifluoromethane, methylene chloride, and 1,2,4-trichlorobenzene and polyaromatic hydrocarbon benzo(g,h,i)perylene in the samples listed below should be considered quantitative estimates. High percent relative standard deviations during the continuing calibration were reported during the volatile organic and polyaromatic hydrocarbon analyses. Lack of precision during the continuing calibration indicates instrument instability; therefore "J" qualifiers were apprended to the samples listed below to indicate that the reported values are quantitative estimates.

Compound	Affected Samples
1,2,3-Trichlorobenzene	86SFF2NWQ308, 86SFF4NWQ308, 86SFF6NWQ308, 86SFF7NWQ308, 86SFF9NWQ308, and 86SFFFDWQ308
Acetone	86SFF6NWQ308, 86SFF7NWQ308, 86SFF9NWQ308, and 86SFFFDWQ308

Compound	Affected Samples
Bromomethane	86SFF4NWQ308
Carbon Disulfide	86SFF4NWQ308
Chloroethane	86SFF4NWQ308
Chloromethane	86SFF4NWQ308
Dichlorodifluoromethane	86SFF4NWQ308
Methylene Chloride	86SFF4NWQ308
1,2,4-Trichlorobenzene	86SFF4NWQ308
Benzo(g,h,i)perylene	86SFF2NWQ308, 86SFF4NWQ308, 86SFF6NWQ308, 86SFF7NWQ308, 86SFF9NWQ308, and 86SFFFDWQ308

The positive results for acenaphthylene in the samples listed below should be considered quantitative estimates. The associated laboratory control sample (LCS) recovery for this compound was above the established quality control (QC) limit. This has been indicated by placing a "J" qualifier next to the positive results for acenaphthylene in the specified sample on the data summary tables.

Compound	Affected Samples
Acenaphthylene	86SFF2NWQ308 and 86SFFFDWQ308

The positive results or quantitation limits for petroleum range organics in the samples listed below should be considered quantitative estimates. The associated laboratory control sample (LCS) recovery for this compound was below the established quality control (QC) limit. This has been indicated by placing a "J" qualifier next to the positive results or quantitation limits for petroleum range organics in the specified sample on the data summary tables.

Compound	Affected Samples
PRO	86SFF2NWQ308, 86SFF4NWQ308, 86SFF6NWQ308, 86SFF7NWQ308, 86SFF9NWQ308, and 86SFFFDWQ308

The positive results for 1,2,4-trichlorobenzene, methylene chloride, and naphthalene reported in the samples listed below are considered quantitative estimates due to the level at which these compounds were present in the associated trip, equipment, and/or laboratory method blanks. This has been indicated in the data summary tables by placing a "JB" qualifier next to the reported values for samples associated with trip and equipment blank contaminations and a "B" qualifier for sample results associated with method blank contamination.

Compound	Affected Samples
1,2,4-trichlorobenzene	86SFF6NWQ308 and 86SFF9NWQ308
Methylene Chloride	86SFF6NWQ308
Naphthalene	86SFF2NWQ308, 86SFF7NWQ308, 86SFF9NWQ308, and 86SFFFDWQ308

The sample presented below was analyzed at a dilution for the analysis indicated. This dilution was required to prevent saturation of the instrument, to allow quantitation of the compounds within the linear range of the calibration curve, and/or to reduce the effects of the matrix on the target compounds. Positive results for compounds reported above the calibration range in the initial analysis have been reported from the diluted analyses. When possible, results and quantitation limits for all other compounds were reported from the initial analysis. Higher quantitation limits were reported for specific polyaromatic hydrocarbons analyses, which were not detected in the diluted sample. This should be noted when assessing these samples for the qualitative absence of specific polyaromatic hydrocarbons compounds.

Sample ID	Analysis	Dilution Factor
86SFF9NWQ308	PAH	5X

Sample 86SFF2NWQ308 and its blind field duplicate sample 86SFFFDWQ308 were submitted to the laboratory to evaluate sampling and analytical precision for those compounds determined to be confidently detected. All compounds met CCI's blind duplicate precision criteria of 30% for water samples relative percent difference (RPD) for volatile organic, polyaromatic hydrocarbons, and petroleum range organics (PRO) analyses. The RPD was not calculated for the compounds that were not detected in both samples.

Inorganic Data Qualifiers

Sample 86SFF2NWQ308 and its blind field duplicate sample 86SFFFDWQ308 were submitted to the laboratory to evaluate sampling and analytical precision for those compounds determined to be confidently detected. All compounds met CCI's blind duplicate precision criteria of 30% for water samples relative percent difference (RPD) for metals analyses. The RPD was not calculated for the compounds that were not detected in both samples.

Summary

The organic and inorganic analyses were performed acceptably, but required qualifying statements. This analytical quality assurance report has identified the aspects of the data, which required qualification. These qualifiers are noted on the attached analytical sample summary reports. A support documentation package has been prepared for this quality assurance review and is filed with the Former NAS Cecil Field CTO 86/ Groundwater Sampling 3rd Event 2008 project file.

Attachment I

VALID QUALIFIERS

QUALIFIER	
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit
J	The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R/UR	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified.
B	The analyte was detected in the associated method and/or calibration blank.
JB	The analyte detected in the associated field, equipment, and/or trip blank.

QUALIFICATION CODE REFERENCE

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect.
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient is <0.995.
K	Second source %D was noncompliant.	Second source %D was noncompliant.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.
MB	Presumed contamination from preparation (method) blank.	Presumed contamination from preparation (method) blank or calibration blank.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or high RPD.	MS/MSD recovery was poor or high RPD.
G	Result is over the calibration range. No other acceptable result was provided.	Result is over the calibration range. Not other acceptable result was provided.
E	Not applicable.	Lab duplicate RPD showed poor agreement.
Z	Field duplicate RPD showed poor agreement.	Field duplicate RPD showed poor agreement
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D was not within control limits.
TN	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
T	Presumed contamination from trip blank.	Not applicable.
+	False positive—reported compound was not present.	Not applicable.
-	False negative—compound was present but not reported.	Not applicable.
F	Presumed contamination from FB or ER.	Presumed contamination from FB or ER.
$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.
D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Confirmation analysis RPD exceeded 40%.	Post Digestion Spike recovery was not within control limits.
T/D	Not applicable.	Total metals results were less than the dissolved metals result.
SD	Not applicable.	Seed correction factor was below the acceptable limit.
M	Results should be considered estimated due to matrix effects caused by saturation of non-target analytes.	Not applicable

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF2NWQ308

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 1110301

Level: (low/med) LOW Date Sampled: 11/06/08 14:35

% Moisture: not dec. _____ Date Analyzed: 11/18/08 00:43

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	0.84	10	2.0	J
71-43-2	Benzene	0.11	1.0		U
74-97-5	Bromochloromethane	0.11	2.0		U
75-27-4	Bromodichloromethane	0.10	0.50		U
75-25-2	Bromoform	0.10	1.0		U
74-83-9	Bromomethane	0.32	2.0		U
78-93-3	2-Butanone (MEK)	1.0	10		U
75-15-0	Carbon disulfide	0.13	1.0		U
56-23-5	Carbon tetrachloride	0.15	1.0		U
108-90-7	Chlorobenzene	0.10	1.0		U
75-00-3	Chloroethane	0.18	2.0		U
67-66-3	Chloroform	0.11	1.0		U
74-87-3	Chloromethane	0.29	2.0		U
124-48-1	Dibromochloromethane	0.10	0.50		U
96-12-8	1,2-Dibromo-3-chloropropane	0.11	0.50		U
106-93-4	1,2-Dibromoethane	0.10	0.50		U
95-50-1	1,2-Dichlorobenzene	0.10	1.0		U
541-73-1	1,3-Dichlorobenzene	0.13	1.0		U
106-46-7	1,4-Dichlorobenzene	0.10	1.0		U
75-71-8	Dichlorodifluoromethane	0.22	2.0		U
75-34-3	1,1-Dichloroethane	0.12	1.0		U
107-06-2	1,2-Dichloroethane	0.10	1.0		U
75-35-4	1,1-Dichloroethene	0.15	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.13	1.0		U
156-60-5	trans-1,2-Dichloroethene	0.13	1.0		U
78-87-5	1,2-Dichloropropane	0.10	1.0		U
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.10	0.50		U
100-41-4	Ethylbenzene	0.13	1.0	14	
591-78-6	2-Hexanone (MBK)	0.30	5.0		U
98-82-8	Isopropylbenzene	0.15	0.50	2.3	
79-20-9	Methyl acetate	0.30	1.0		U
75-09-2	Methylene chloride	0.14	2.0		U
1634-04-4	Methyl-tert-butyl ether	0.10	1.0		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.29	5.0		U
100-42-5	Styrene	0.10	1.0	0.28	J
79-34-5	1,1,2,2-Tetrachloroethane	0.10	0.50		U
127-18-4	Tetrachloroethene	0.15	1.0		U
108-88-3	Toluene	0.10	1.0	0.77	J

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF2NWQ308

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 1110301

Level: (low/med) LOW Date Sampled: 11/06/08 14:35

% Moisture: not dec. _____ Date Analyzed: 11/18/08 00:43

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	0.10	1.0		U J-C
120-82-1	1,2,4-Trichlorobenzene	0.10	1.0		U
71-55-6	1,1,1-Trichloroethane	0.17	1.0		U
79-00-5	1,1,2-Trichloroethane	0.10	1.0		U
79-01-6	Trichloroethene	0.13	1.0		U
76-13-1	Trichlorotrifluoroethane	0.18	1.0		U
75-69-4	Trichlorofluoromethane	0.17	2.0		U
75-01-4	Vinyl chloride	0.18	1.0		U
1330-20-7	Xylene(total)	0.22	1.0	13	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF4NWQ308

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 1110302

Level: (low/med) LOW Date Sampled: 11/06/08 15:20

% Moisture: not dec. _____ Date Analyzed: 11/20/08 00:35

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	0.84	10	4.3	J
71-43-2	Benzene	0.11	1.0		U
74-97-5	Bromochloromethane	0.11	2.0		U
75-27-4	Bromodichloromethane	0.10	0.50		U
75-25-2	Bromoform	0.10	1.0		U
74-83-9	Bromomethane	0.32	2.0		U J-C
78-93-3	2-Butanone (MEK)	1.0	10		U
75-15-0	Carbon disulfide	0.13	1.0		U J-C
56-23-5	Carbon tetrachloride	0.15	1.0		U
108-90-7	Chlorobenzene	0.10	1.0		U
75-00-3	Chloroethane	0.18	2.0		U J-C
67-66-3	Chloroform	0.11	1.0		U
74-87-3	Chloromethane	0.29	2.0		U J-C
124-48-1	Dibromochloromethane	0.10	0.50		U
96-12-8	1,2-Dibromo-3-chloropropane	0.11	0.50		U
106-93-4	1,2-Dibromoethane	0.10	0.50		U
95-50-1	1,2-Dichlorobenzene	0.10	1.0		U
541-73-1	1,3-Dichlorobenzene	0.13	1.0		U
106-46-7	1,4-Dichlorobenzene	0.10	1.0		U
75-71-8	Dichlorodifluoromethane	0.22	2.0		U J-C
75-34-3	1,1-Dichloroethane	0.12	1.0		U
107-06-2	1,2-Dichloroethane	0.10	1.0		U
75-35-4	1,1-Dichloroethene	0.15	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.13	1.0		U
156-60-5	trans-1,2-Dichloroethene	0.13	1.0		U
78-87-5	1,2-Dichloropropane	0.10	1.0		U
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.10	0.50		U
100-41-4	Ethylbenzene	0.13	1.0	0.20	J
591-78-6	2-Hexanone (MBK)	0.30	5.0		U
98-82-8	Isopropylbenzene	0.15	0.50	0.83	
79-20-9	Methyl acetate	0.30	1.0		U
75-09-2	Methylene chloride	0.14	2.0		U J-C
1634-04-4	Methyl-tert-butyl ether	0.10	1.0		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.29	5.0		U
100-42-5	Styrene	0.10	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.10	0.50		U
127-18-4	Tetrachloroethene	0.15	1.0		U
108-88-3	Toluene	0.10	1.0	0.23	J

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF4NWQ308

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 1110302

Level: (low/med) LOW Date Sampled: 11/06/08 15:20

% Moisture: not dec. _____ Date Analyzed: 11/20/08 00:35

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	0.10	1.0		U J-C
120-82-1	1,2,4-Trichlorobenzene	0.10	1.0		U J-C
71-55-6	1,1,1-Trichloroethane	0.17	1.0		U
79-00-5	1,1,2-Trichloroethane	0.10	1.0		U
79-01-6	Trichloroethene	0.13	1.0		U
76-13-1	Trichlorotrifluoroethane	0.18	1.0		U
75-69-4	Trichlorofluoromethane	0.17	2.0		U
75-01-4	Vinyl chloride	0.18	1.0		U
1330-20-7	Xylene(total)	0.22	1.0	0.32	J

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF6NWQ308

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-03

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 1110303

Level: (low/med) LOW Date Sampled: 11/06/08 10:55

% Moisture: not dec. _____ Date Analyzed: 11/18/08 12:40

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	0.84	10	6.0	J -C
71-43-2	Benzene	0.11	1.0	0.17	J
74-97-5	Bromochloromethane	0.11	2.0		U
75-27-4	Bromodichloromethane	0.10	0.50		U
75-25-2	Bromoform	0.10	1.0		U
74-83-9	Bromomethane	0.32	2.0		U
78-93-3	2-Butanone (MEK)	1.0	10		U
75-15-0	Carbon disulfide	0.13	1.0	0.60	J
56-23-5	Carbon tetrachloride	0.15	1.0		U
108-90-7	Chlorobenzene	0.10	1.0		U
75-00-3	Chloroethane	0.18	2.0		U
67-66-3	Chloroform	0.11	1.0		U
74-87-3	Chloromethane	0.29	2.0		U
124-48-1	Dibromochloromethane	0.10	0.50		U
96-12-8	1,2-Dibromo-3-chloropropane	0.11	0.50		U
106-93-4	1,2-Dibromoethane	0.10	0.50		U
95-50-1	1,2-Dichlorobenzene	0.10	1.0		U
541-73-1	1,3-Dichlorobenzene	0.13	1.0		U
106-46-7	1,4-Dichlorobenzene	0.10	1.0		U
75-71-8	Dichlorodifluoromethane	0.22	2.0		U
75-34-3	1,1-Dichloroethane	0.12	1.0		U
107-06-2	1,2-Dichloroethane	0.10	1.0		U
75-35-4	1,1-Dichloroethene	0.15	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.13	1.0		U
156-60-5	trans-1,2-Dichloroethene	0.13	1.0		U
78-87-5	1,2-Dichloropropane	0.10	1.0		U
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.10	0.50		U
100-41-4	Ethylbenzene	0.13	1.0	0.31	J
591-78-6	2-Hexanone (MBK)	0.30	5.0		U
98-82-8	Isopropylbenzene	0.15	0.50	0.83	
79-20-9	Methyl acetate	0.30	1.0		U
75-09-2	Methylene chloride	0.14	2.0	1.6	JB-T,MB
1634-04-4	Methyl-tert-butyl ether	0.10	1.0		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.29	5.0		U
100-42-5	Styrene	0.10	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.10	0.50		U
127-18-4	Tetrachloroethene	0.15	1.0		U
108-88-3	Toluene	0.10	1.0	0.11	J

FORM I VOA

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF6NWQ308

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-03

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 1110303

Level: (low/med) LOW Date Sampled: 11/06/08 10:55

% Moisture: not dec. _____ Date Analyzed: 11/18/08 12:40

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	0.10	1.0		U J-C
120-82-1	1,2,4-Trichlorobenzene	0.10	1.0	0.22	~~JB~~ B-mB
71-55-6	1,1,1-Trichloroethane	0.17	1.0		U
79-00-5	1,1,2-Trichloroethane	0.10	1.0		U
79-01-6	Trichloroethene	0.13	1.0		U
76-13-1	Trichlorotrifluoroethane	0.18	1.0		U
75-69-4	Trichlorofluoromethane	0.17	2.0		U
75-01-4	Vinyl chloride	0.18	1.0		U
1330-20-7	Xylene(total)	0.22	1.0	0.28	J

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF7NWQ308

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-04

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 1110304

Level: (low/med) LOW Date Sampled: 11/06/08 11:40

% Moisture: not dec. _____ Date Analyzed: 11/18/08 13:09

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	0.84	10		U J-C
71-43-2	Benzene	0.11	1.0	39	
74-97-5	Bromochloromethane	0.11	2.0		U
75-27-4	Bromodichloromethane	0.10	0.50		U
75-25-2	Bromoform	0.10	1.0		U
74-83-9	Bromomethane	0.32	2.0		U
78-93-3	2-Butanone (MEK)	1.0	10		U
75-15-0	Carbon disulfide	0.13	1.0		U
56-23-5	Carbon tetrachloride	0.15	1.0		U
108-90-7	Chlorobenzene	0.10	1.0		U
75-00-3	Chloroethane	0.18	2.0		U
67-66-3	Chloroform	0.11	1.0		U
74-87-3	Chloromethane	0.29	2.0		U
124-48-1	Dibromochloromethane	0.10	0.50		U
96-12-8	1,2-Dibromo-3-chloropropane	0.11	0.50		U
106-93-4	1,2-Dibromoethane	0.10	0.50		U
95-50-1	1,2-Dichlorobenzene	0.10	1.0		U
541-73-1	1,3-Dichlorobenzene	0.13	1.0		U
106-46-7	1,4-Dichlorobenzene	0.10	1.0		U
75-71-8	Dichlorodifluoromethane	0.22	2.0		U
75-34-3	1,1-Dichloroethane	0.12	1.0		U
107-06-2	1,2-Dichloroethane	0.10	1.0		U
75-35-4	1,1-Dichloroethene	0.15	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.13	1.0		U
156-60-5	trans-1,2-Dichloroethene	0.13	1.0		U
78-87-5	1,2-Dichloropropane	0.10	1.0		U
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.10	0.50		U
100-41-4	Ethylbenzene	0.13	1.0	74	
591-78-6	2-Hexanone (MBK)	0.30	5.0		U
98-82-8	Isopropylbenzene	0.15	0.50	29	
79-20-9	Methyl acetate	0.30	1.0		U
75-09-2	Methylene chloride	0.14	2.0		U
1634-04-4	Methyl-tert-butyl ether	0.10	1.0		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.29	5.0		U
100-42-5	Styrene	0.10	1.0	3.2	
79-34-5	1,1,2,2-Tetrachloroethane	0.10	0.50		U
127-18-4	Tetrachloroethene	0.15	1.0		U
108-88-3	Toluene	0.10	1.0	6.6	

FORM I VOA

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF7NWQ308

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-04

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 1110304

Level: (low/med) LOW Date Sampled: 11/06/08 11:40

% Moisture: not dec. _____ Date Analyzed: 11/18/08 13:09

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	0.10	1.0		U J-C
120-82-1	1,2,4-Trichlorobenzene	0.10	1.0		U
71-55-6	1,1,1-Trichloroethane	0.17	1.0		U
79-00-5	1,1,2-Trichloroethane	0.10	1.0		U
79-01-6	Trichloroethene	0.13	1.0		U
76-13-1	Trichlorotrifluoroethane	0.18	1.0		U
75-69-4	Trichlorofluoromethane	0.17	2.0		U
75-01-4	Vinyl chloride	0.18	1.0		U
1330-20-7	Xylene(total)	0.22	1.0	290	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF9NWQ308

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-05

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 1110305

Level: (low/med) LOW Date Sampled: 11/06/08 13:50

% Moisture: not dec. _____ Date Analyzed: 11/18/08 13:39

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	0.84	10		U J-C
71-43-2	Benzene	0.11	1.0		U
74-97-5	Bromochloromethane	0.11	2.0		U
75-27-4	Bromodichloromethane	0.10	0.50		U
75-25-2	Bromoform	0.10	1.0		U
74-83-9	Bromomethane	0.32	2.0		U
78-93-3	2-Butanone (MEK)	1.0	10		U
75-15-0	Carbon disulfide	0.13	1.0		U
56-23-5	Carbon tetrachloride	0.15	1.0		U
108-90-7	Chlorobenzene	0.10	1.0		U
75-00-3	Chloroethane	0.18	2.0		U
67-66-3	Chloroform	0.11	1.0		U
74-87-3	Chloromethane	0.29	2.0		U
124-48-1	Dibromochloromethane	0.10	0.50		U
96-12-8	1,2-Dibromo-3-chloropropane	0.11	0.50		U
106-93-4	1,2-Dibromoethane	0.10	0.50		U
95-50-1	1,2-Dichlorobenzene	0.10	1.0		U
541-73-1	1,3-Dichlorobenzene	0.13	1.0		U
106-46-7	1,4-Dichlorobenzene	0.10	1.0		U
75-71-8	Dichlorodifluoromethane	0.22	2.0		U
75-34-3	1,1-Dichloroethane	0.12	1.0		U
107-06-2	1,2-Dichloroethane	0.10	1.0		U
75-35-4	1,1-Dichloroethene	0.15	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.13	1.0		U
156-60-5	trans-1,2-Dichloroethene	0.13	1.0		U
78-87-5	1,2-Dichloropropane	0.10	1.0		U
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.10	0.50		U
100-41-4	Ethylbenzene	0.13	1.0	9.5	
591-78-6	2-Hexanone (MBK)	0.30	5.0		U
98-82-8	Isopropylbenzene	0.15	0.50	8.8	
79-20-9	Methyl acetate	0.30	1.0		U
75-09-2	Methylene chloride	0.14	2.0		U
1634-04-4	Methyl-tert-butyl ether	0.10	1.0		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.29	5.0		U
100-42-5	Styrene	0.10	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.10	0.50		U
127-18-4	Tetrachloroethene	0.15	1.0		U
108-88-3	Toluene	0.10	1.0		U

FORM I VOA

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF9NWQ308

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-05

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 1110305

Level: (low/med) LOW Date Sampled: 11/06/08 13:50

% Moisture: not dec. _____ Date Analyzed: 11/18/08 13:39

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	0.10	1.0	0.18	J-C
120-82-1	1,2,4-Trichlorobenzene	0.10	1.0	0.69	~~JB~~ B-MB
71-55-6	1,1,1-Trichloroethane	0.17	1.0		U
79-00-5	1,1,2-Trichloroethane	0.10	1.0		U
79-01-6	Trichloroethene	0.13	1.0		U
76-13-1	Trichlorotrifluoroethane	0.18	1.0		U
75-69-4	Trichlorofluoromethane	0.17	2.0		U
75-01-4	Vinyl chloride	0.18	1.0		U
1330-20-7	Xylene(total)	0.22	1.0	20	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFFDWQ308

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-06

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 1110306

Level: (low/med) LOW Date Sampled: 11/06/08 :

% Moisture: not dec. _____ Date Analyzed: 11/18/08 14:08

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	0.84	10		U J-C
71-43-2	Benzene	0.11	1.0		U
74-97-5	Bromochloromethane	0.11	2.0		U
75-27-4	Bromodichloromethane	0.10	0.50		U
75-25-2	Bromoform	0.10	1.0		U
74-83-9	Bromomethane	0.32	2.0		U
78-93-3	2-Butanone (MEK)	1.0	10		U
75-15-0	Carbon disulfide	0.13	1.0		U
56-23-5	Carbon tetrachloride	0.15	1.0		U
108-90-7	Chlorobenzene	0.10	1.0		U
75-00-3	Chloroethane	0.18	2.0		U
67-66-3	Chloroform	0.11	1.0		U
74-87-3	Chloromethane	0.29	2.0		U
124-48-1	Dibromochloromethane	0.10	0.50		U
96-12-8	1,2-Dibromo-3-chloropropane	0.11	0.50		U
106-93-4	1,2-Dibromoethane	0.10	0.50		U
95-50-1	1,2-Dichlorobenzene	0.10	1.0		U
541-73-1	1,3-Dichlorobenzene	0.13	1.0		U
106-46-7	1,4-Dichlorobenzene	0.10	1.0		U
75-71-8	Dichlorodifluoromethane	0.22	2.0		U
75-34-3	1,1-Dichloroethane	0.12	1.0		U
107-06-2	1,2-Dichloroethane	0.10	1.0		U
75-35-4	1,1-Dichloroethene	0.15	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.13	1.0		U
156-60-5	trans-1,2-Dichloroethene	0.13	1.0		U
78-87-5	1,2-Dichloropropane	0.10	1.0		U
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.10	0.50		U
100-41-4	Ethylbenzene	0.13	1.0	15	
591-78-6	2-Hexanone (MBK)	0.30	5.0		U
98-82-8	Isopropylbenzene	0.15	0.50	2.4	
79-20-9	Methyl acetate	0.30	1.0		U
75-09-2	Methylene chloride	0.14	2.0		U
1634-04-4	Methyl-tert-butyl ether	0.10	1.0		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.29	5.0		U
100-42-5	Styrene	0.10	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.10	0.50		U
127-18-4	Tetrachloroethene	0.15	1.0		U
108-88-3	Toluene	0.10	1.0	0.73	J

FORM I VOA

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFFDWQ308

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-06

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 1110306

Level: (low/med) LOW Date Sampled: 11/06/08 :

% Moisture: not dec. _____ Date Analyzed: 11/18/08 14:08

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	0.10	1.0		U J-C
120-82-1	1,2,4-Trichlorobenzene	0.10	1.0		U
71-55-6	1,1,1-Trichloroethane	0.17	1.0		U
79-00-5	1,1,2-Trichloroethane	0.10	1.0		U
79-01-6	Trichloroethene	0.13	1.0		U
76-13-1	Trichlorotrifluoroethane	0.18	1.0		U
75-69-4	Trichlorofluoromethane	0.17	2.0		U
75-01-4	Vinyl chloride	0.18	1.0		U
1330-20-7	Xylene(total)	0.22	1.0	14	

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FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFEBWQ308

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-07

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 1110307

Level: (low/med) LOW Date Sampled: 11/06/08 15:50

% Moisture: not dec. _____ Date Analyzed: 11/18/08 14:39

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	0.84	10		U
71-43-2	Benzene	0.11	1.0		U
74-97-5	Bromochloromethane	0.11	2.0		U
75-27-4	Bromodichloromethane	0.10	0.50		U
75-25-2	Bromoform	0.10	1.0		U
74-83-9	Bromomethane	0.32	2.0		U
78-93-3	2-Butanone (MEK)	1.0	10		U
75-15-0	Carbon disulfide	0.13	1.0		U
56-23-5	Carbon tetrachloride	0.15	1.0		U
108-90-7	Chlorobenzene	0.10	1.0		U
75-00-3	Chloroethane	0.18	2.0		U
67-66-3	Chloroform	0.11	1.0		U
74-87-3	Chloromethane	0.29	2.0		U
124-48-1	Dibromochloromethane	0.10	0.50		U
96-12-8	1,2-Dibromo-3-chloropropane	0.11	0.50		U
106-93-4	1,2-Dibromoethane	0.10	0.50		U
95-50-1	1,2-Dichlorobenzene	0.10	1.0		U
541-73-1	1,3-Dichlorobenzene	0.13	1.0		U
106-46-7	1,4-Dichlorobenzene	0.10	1.0		U
75-71-8	Dichlorodifluoromethane	0.22	2.0		U
75-34-3	1,1-Dichloroethane	0.12	1.0		U
107-06-2	1,2-Dichloroethane	0.10	1.0		U
75-35-4	1,1-Dichloroethene	0.15	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.13	1.0		U
156-60-5	trans-1,2-Dichloroethene	0.13	1.0		U
78-87-5	1,2-Dichloropropane	0.10	1.0		U
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.10	0.50		U
100-41-4	Ethylbenzene	0.13	1.0		U
591-78-6	2-Hexanone (MBK)	0.30	5.0		U
98-82-8	Isopropylbenzene	0.15	0.50		U
79-20-9	Methyl acetate	0.30	1.0		U
75-09-2	Methylene chloride	0.14	2.0		U
1634-04-4	Methyl-tert-butyl ether	0.10	1.0		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.29	5.0		U
100-42-5	Styrene	0.10	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.10	0.50		U
127-18-4	Tetrachloroethene	0.15	1.0		U
108-88-3	Toluene	0.10	1.0		U

FORM I VOA

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFEBWQ308

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-07

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 1110307

Level: (low/med) LOW Date Sampled: 11/06/08 15:50

% Moisture: not dec. _____ Date Analyzed: 11/18/08 14:39

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	0.10	1.0		U
120-82-1	1,2,4-Trichlorobenzene	0.10	1.0		U
71-55-6	1,1,1-Trichloroethane	0.17	1.0		U
79-00-5	1,1,2-Trichloroethane	0.10	1.0		U
79-01-6	Trichloroethene	0.13	1.0		U
76-13-1	Trichlorotrifluoroethane	0.18	1.0		U
75-69-4	Trichlorofluoromethane	0.17	2.0		U
75-01-4	Vinyl chloride	0.18	1.0		U
1330-20-7	Xylene(total)	0.22	1.0		U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFTBWQ308

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-08

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 1110308

Level: (low/med) LOW Date Sampled: 11/06/08 :

% Moisture: not dec. _____ Date Analyzed: 11/17/08 19:13

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
67-64-1	Acetone	0.84	10		U
71-43-2	Benzene	0.11	1.0		U
74-97-5	Bromochloromethane	0.11	2.0		U
75-27-4	Bromodichloromethane	0.10	0.50		U
75-25-2	Bromoform	0.10	1.0		U
74-83-9	Bromomethane	0.32	2.0		U
78-93-3	2-Butanone (MEK)	1.0	10		U
75-15-0	Carbon disulfide	0.13	1.0		U
56-23-5	Carbon tetrachloride	0.15	1.0		U
108-90-7	Chlorobenzene	0.10	1.0		U
75-00-3	Chloroethane	0.18	2.0		U
67-66-3	Chloroform	0.11	1.0		U
74-87-3	Chloromethane	0.29	2.0		U
124-48-1	Dibromochloromethane	0.10	0.50		U
96-12-8	1,2-Dibromo-3-chloropropane	0.11	0.50		U
106-93-4	1,2-Dibromoethane	0.10	0.50		U
95-50-1	1,2-Dichlorobenzene	0.10	1.0		U
541-73-1	1,3-Dichlorobenzene	0.13	1.0		U
106-46-7	1,4-Dichlorobenzene	0.10	1.0		U
75-71-8	Dichlorodifluoromethane	0.22	2.0		U
75-34-3	1,1-Dichloroethane	0.12	1.0		U
107-06-2	1,2-Dichloroethane	0.10	1.0		U
75-35-4	1,1-Dichloroethene	0.15	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.13	1.0		U
156-60-5	trans-1,2-Dichloroethene	0.13	1.0		U
78-87-5	1,2-Dichloropropane	0.10	1.0		U
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50		U
10061-02-6	trans-1,3-Dichloropropene	0.10	0.50		U
100-41-4	Ethylbenzene	0.13	1.0		U
591-78-6	2-Hexanone (MBK)	0.30	5.0		U
98-82-8	Isopropylbenzene	0.15	0.50		U
79-20-9	Methyl acetate	0.30	1.0		U
75-09-2	Methylene chloride	0.14	2.0	0.64	JB
1634-04-4	Methyl-tert-butyl ether	0.10	1.0		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.29	5.0		U
100-42-5	Styrene	0.10	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	0.10	0.50		U
127-18-4	Tetrachloroethene	0.15	1.0		U
108-88-3	Toluene	0.10	1.0		U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFTBWQ308

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-08

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 1110308

Level: (low/med) LOW Date Sampled: 11/06/08 :

% Moisture: not dec. _____ Date Analyzed: 11/17/08 19:13

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
87-61-6	1,2,3-Trichlorobenzene	0.10	1.0		U
120-82-1	1,2,4-Trichlorobenzene	0.10	1.0		U
71-55-6	1,1,1-Trichloroethane	0.17	1.0		U
79-00-5	1,1,2-Trichloroethane	0.10	1.0		U
79-01-6	Trichloroethene	0.13	1.0		U
76-13-1	Trichlorotrifluoroethane	0.18	1.0		U
75-69-4	Trichlorofluoromethane	0.17	2.0		U
75-01-4	Vinyl chloride	0.18	1.0		U
1330-20-7	Xylene(total)	0.22	1.0		U

FORM I VOA

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF2NWQ308

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-01

Sample wt/vol: 1060 (g/mL) ML Lab File ID: 1110301

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 11/06/08 14:35

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:11/12/08

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 11/18/08 12:35

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.031	0.094		U
208-96-8	Acenaphthylene	0.031	0.094	0.21	~~X~~ J-L
120-12-7	Anthracene	0.031	0.094		U
56-55-3	Benzo(a)anthracene	0.012	0.047		U
205-99-2	Benzo(b)fluoranthene	0.012	0.047		U
207-08-9	Benzo(k)fluoranthene	0.031	0.094		U
191-24-2	Benzo(g,h,i)perylene	0.031	0.094		U J-C
50-32-8	Benzo(a)pyrene	0.031	0.094		U
218-01-9	Chrysene	0.031	0.094		U
53-70-3	Dibenz(a,h)anthracene	0.0047	0.047		U
206-44-0	Fluoranthene	0.031	0.094		U
86-73-7	Fluorene	0.031	0.094		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.012	0.047		U
90-12-0	1-Methylnaphthalene	0.031	0.094	0.10	
91-57-6	2-Methylnaphthalene	0.031	0.094		U
91-20-3	Naphthalene	0.012	0.094	1.7	~~B~~ JB-F, MB
85-01-8	Phenanthrene	0.031	0.094		U
129-00-0	Pyrene	0.031	0.094		U

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ok

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF4NWQ308

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-02

Sample wt/vol: 1060 (g/mL) ML Lab File ID: 1110302

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 11/06/08 15:20

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:11/12/08

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 11/18/08 13:04

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.031	0.094	0.27	
208-96-8	Acenaphthylene	0.031	0.094		U
120-12-7	Anthracene	0.031	0.094		U
56-55-3	Benzo(a)anthracene	0.012	0.047		U
205-99-2	Benzo(b)fluoranthene	0.012	0.047		U
207-08-9	Benzo(k)fluoranthene	0.031	0.094		U
191-24-2	Benzo(g,h,i)perylene	0.031	0.094		U J-C
50-32-8	Benzo(a)pyrene	0.031	0.094		U
218-01-9	Chrysene	0.031	0.094		U
53-70-3	Dibenz(a,h)anthracene	0.0047	0.047		U
206-44-0	Fluoranthene	0.031	0.094		U
86-73-7	Fluorene	0.031	0.094		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.012	0.047		U
90-12-0	1-Methylnaphthalene	0.031	0.094	0.12	
91-57-6	2-Methylnaphthalene	0.031	0.094	0.071	J
91-20-3	Naphthalene	0.012	0.094		U
85-01-8	Phenanthrene	0.031	0.094		U
129-00-0	Pyrene	0.031	0.094	0.082	J

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF6NWQ308

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-03

Sample wt/vol: 1060 (g/mL) ML Lab File ID: 1110303

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 11/06/08 10:55

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:11/12/08

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 11/18/08 13:33

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.031	0.094		U
208-96-8	Acenaphthylene	0.031	0.094		U
120-12-7	Anthracene	0.031	0.094		U
56-55-3	Benzo(a)anthracene	0.012	0.047		U
205-99-2	Benzo(b)fluoranthene	0.012	0.047		U
207-08-9	Benzo(k)fluoranthene	0.031	0.094		U
191-24-2	Benzo(g,h,i)perylene	0.031	0.094		UJ-C
50-32-8	Benzo(a)pyrene	0.031	0.094		U
218-01-9	Chrysene	0.031	0.094		U
53-70-3	Dibenz(a,h)anthracene	0.0047	0.047		U
206-44-0	Fluoranthene	0.031	0.094		U
86-73-7	Fluorene	0.031	0.094	0.034	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.012	0.047		U
90-12-0	1-Methylnaphthalene	0.031	0.094	0.11	
91-57-6	2-Methylnaphthalene	0.031	0.094	0.16	
91-20-3	Naphthalene	0.012	0.094		U
85-01-8	Phenanthrene	0.031	0.094	0.052	J
129-00-0	Pyrene	0.031	0.094		U

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF7NWQ308

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-04

Sample wt/vol: 1060 (g/mL) ML Lab File ID: 1110304

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 11/06/08 11:40

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:11/12/08

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 11/18/08 14:02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.031	0.094		U
208-96-8	Acenaphthylene	0.031	0.094		U
120-12-7	Anthracene	0.031	0.094		U
56-55-3	Benzo(a)anthracene	0.012	0.047		U
205-99-2	Benzo(b)fluoranthene	0.012	0.047		U
207-08-9	Benzo(k)fluoranthene	0.031	0.094		U
191-24-2	Benzo(g,h,i)perylene	0.031	0.094		UJ-C
50-32-8	Benzo(a)pyrene	0.031	0.094		U
218-01-9	Chrysene	0.031	0.094		U
53-70-3	Dibenz(a,h)anthracene	0.0047	0.047		U
206-44-0	Fluoranthene	0.031	0.094		U
86-73-7	Fluorene	0.031	0.094		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.012	0.047		U
90-12-0	1-Methylnaphthalene	0.031	0.094		U
91-57-6	2-Methylnaphthalene	0.031	0.094		U
91-20-3	Naphthalene	0.012	0.094	0.025	JB-F,MB
85-01-8	Phenanthrene	0.031	0.094		U
129-00-0	Pyrene	0.031	0.094		U

c-d

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF9NWQ308

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1110305

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 11/06/08 13:50

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:11/12/08

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 11/18/08 14:31

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.033	0.10		U
208-96-8	Acenaphthylene	0.033	0.10		U
120-12-7	Anthracene	0.033	0.10		U
56-55-3	Benzo(a)anthracene	0.013	0.050		U
205-99-2	Benzo(b)fluoranthene	0.013	0.050		U
207-08-9	Benzo(k)fluoranthene	0.033	0.10		U
191-24-2	Benzo(g,h,i)perylene	0.033	0.10		U J-C
50-32-8	Benzo(a)pyrene	0.033	0.10		U
218-01-9	Chrysene	0.033	0.10		U
53-70-3	Dibenz(a,h)anthracene	0.0050	0.050		U
206-44-0	Fluoranthene	0.033	0.10		U
86-73-7	Fluorene	0.033	0.10		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.013	0.050		U
90-12-0	1-Methylnaphthalene	0.033	0.10	23	
91-57-6	2-Methylnaphthalene	0.033	0.10	22	E RD
91-20-3	Naphthalene	0.013	0.10	26	~~B~~ JB-F, M
85-01-8	Phenanthrene	0.033	0.10		U
129-00-0	Pyrene	0.033	0.10		U

12/2/08

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF9NWQ308DL

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-05DL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1110305D

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 11/06/08 13:50

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:11/12/08

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 11/19/08 05:09

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.16	0.50		UD R-D
208-96-8	Acenaphthylene	0.16	0.50		UD
120-12-7	Anthracene	0.16	0.50		UD
56-55-3	Benzo(a)anthracene	0.065	0.25		UD
205-99-2	Benzo(b)fluoranthene	0.065	0.25		UD
207-08-9	Benzo(k)fluoranthene	0.16	0.50		UD
191-24-2	Benzo(g,h,i)perylene	0.16	0.50		UD
50-32-8	Benzo(a)pyrene	0.16	0.50		UD
218-01-9	Chrysene	0.16	0.50		UD
53-70-3	Dibenz(a,h)anthracene	0.025	0.25		UD
206-44-0	Fluoranthene	0.16	0.50		UD
86-73-7	Fluorene	0.16	0.50		UD
193-39-5	Indeno(1,2,3-cd)pyrene	0.065	0.25		UD
90-12-0	1-Methylnaphthalene	0.16	0.50	22	D R-D
91-57-6	2-Methylnaphthalene	0.16	0.50	22	D
91-20-3	Naphthalene	0.065	0.50	25	D R-D
85-01-8	Phenanthrene	0.16	0.50		UD
129-00-0	Pyrene	0.16	0.50		UD

12/26/08

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFFDWQ308

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-06

Sample wt/vol: 1060 (g/mL) ML Lab File ID: 1110306

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 11/06/08 :

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:11/12/08

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 11/18/08 15:00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9-------	Acenaphthene	0.031	0.094		U
208-96-8------	Acenaphthylene	0.031	0.094	0.23	~~X~~ J-L
120-12-7------	Anthracene	0.031	0.094		U
56-55-3-------	Benzo(a)anthracene	0.012	0.047		U
205-99-2------	Benzo(b)fluoranthene	0.012	0.047		U
207-08-9------	Benzo(k)fluoranthene	0.031	0.094		U
191-24-2------	Benzo(g,h,i)perylene	0.031	0.094		U J-C
50-32-8-------	Benzo(a)pyrene	0.031	0.094		U
218-01-9------	Chrysene	0.031	0.094		U
53-70-3-------	Dibenz(a,h)anthracene	0.0047	0.047		U
206-44-0------	Fluoranthene	0.031	0.094		U
86-73-7-------	Fluorene	0.031	0.094		U
193-39-5------	Indeno(1,2,3-cd)pyrene	0.012	0.047		U
90-12-0-------	1-Methylnaphthalene	0.031	0.094	0.13	
91-57-6-------	2-Methylnaphthalene	0.031	0.094		U
91-20-3-------	Naphthalene	0.012	0.094	2.2	~~B~~ JB-F, ME
85-01-8-------	Phenanthrene	0.031	0.094		U
129-00-0------	Pyrene	0.031	0.094		U

ML 12/2/08

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFEBWQ308

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-07

Sample wt/vol: 1060 (g/mL) ML Lab File ID: 1110307

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 11/06/08 15:50

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:11/12/08

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 11/18/08 15:28

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.031	0.094		U
208-96-8	Acenaphthylene	0.031	0.094		U
120-12-7	Anthracene	0.031	0.094		U
56-55-3	Benzo(a)anthracene	0.012	0.047		U
205-99-2	Benzo(b)fluoranthene	0.012	0.047		U
207-08-9	Benzo(k)fluoranthene	0.031	0.094		U
191-24-2	Benzo(g,h,i)perylene	0.031	0.094		U
50-32-8	Benzo(a)pyrene	0.031	0.094		U
218-01-9	Chrysene	0.031	0.094		U
53-70-3	Dibenz(a,h)anthracene	0.0047	0.047		U
206-44-0	Fluoranthene	0.031	0.094		U
86-73-7	Fluorene	0.031	0.094		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.012	0.047		U
90-12-0	1-Methylnaphthalene	0.031	0.094		U
91-57-6	2-Methylnaphthalene	0.031	0.094		U
91-20-3	Naphthalene	0.012	0.094	0.058	JB
85-01-8	Phenanthrene	0.031	0.094		U
129-00-0	Pyrene	0.031	0.094		U

0-4

FORM I SV

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF2NWQ308

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.P11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-01

Sample wt/vol: 1020 (g/mL) ML Lab File ID: 005R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 11/06/08 14:35

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:11/12/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 11/22/08 17:13

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.17	0.49	3.0	J-L

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF4NWQ308

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.P11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-02

Sample wt/vol: 1050 (g/mL) ML Lab File ID: 008R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 11/06/08 15:20

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:11/12/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 11/22/08 18:56

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.16	0.48	0.75	J-L

c.l

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF6NWQ308

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.P11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-03

Sample wt/vol: 1040 (g/mL) ML Lab File ID: 009R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 11/06/08 10:55

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:11/12/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 11/22/08 19:31

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.16	0.48	0.48	J-L

C.L

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF7NWQ308

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.P11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-04

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 010R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 11/06/08 11:40

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:11/12/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 11/22/08 20:05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.16	0.46		U~~J~~ L

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF9NWQ308

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.P11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-05

Sample wt/vol: 1040 (g/mL) ML Lab File ID: 011R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 11/06/08 13:50

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:11/12/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 11/22/08 20:39

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.16	0.48	1.8	J-L

c.l

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFFDWQ308

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.P11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-06

Sample wt/vol: 1030 (g/mL) ML Lab File ID: 012R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 11/06/08 :

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:11/12/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 11/22/08 21:14

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.16	0.48	4.0	J-L

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFEBWQ308

Lab Name: EMPIRICAL LABS Contract: CH2M HILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.P11103

Matrix: (soil/water) WATER Lab Sample ID: 0811103-07

Sample wt/vol: 1060 (g/mL) ML Lab File ID: 013R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 11/06/08 15:50

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:11/12/08

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 11/22/08 21:48

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
PRO-8-40------Petroleum Range		0.16	0.47		U

FORM I PRO

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFF2NWQ308

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0811103

Matrix (soil/water) WATER Lab Sample ID: 0811103-01

Level (low/med): LOW Date Received: 11/7/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	4.1			P

C.l

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Form IA-IN

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFF4NWQ308

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0811103

Matrix (soil/water) WATER Lab Sample ID: 0811103-02

Level (low/med): LOW Date Received: 11/7/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	3.0	U		P

nd

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Form IA-IN

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFF6NWQ308

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0811103

Matrix (soil/water) WATER Lab Sample ID: 0811103-03

Level (low/med): LOW Date Received: 11/7/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	12.1			P

CL

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Form IA-IN

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFF7NWQ308

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0811103

Matrix (soil/water) WATER Lab Sample ID: 0811103-04

Level (low/med): LOW Date Received: 11/7/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	2.4	J		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Form IA-IN

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFF9NWQ308

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0811103

Matrix (soil/water) WATER Lab Sample ID: 0811103-05

Level (low/med): LOW Date Received: 11/7/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	3.0	U		P

ok

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Form IA-IN

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFFFDWQ308

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0811103

Matrix (soil/water) WATER Lab Sample ID: 0811103-06

Level (low/med): LOW Date Received: 11/7/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	3.5			P

C.L

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Form IA-IN

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFFEBWQ308

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0811103

Matrix (soil/water) WATER Lab Sample ID: 0811103-07

Level (low/med): LOW Date Received: 11/7/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	3.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Form IA-IN

CH2MHILL Constructors, Inc.
1000 Abernathy Road, Suite 1600
Atlanta, GA 30328
Tel No: (770) 604-9182
Fax No: (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
271591-055 page 1 of 1

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
Former N.A.S. Cecil Field South Fuel Farm	271591	Empirical Laboratories Marcia McGinnity	Bethany Garvey / CH2M HILL Constructors, Inc.	Northpark 400, 1000 Abernathy Road, Suite 1600; Atlanta, GA 30328 (770)604-9182 / FAX:604-9282
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
South Fuel Farm GW Sampling Event	0086		Sam Naik / CH2M HILL Constructors, Inc.	Northpark 400, 1000 Abernathy Road, Suite 1600; Atlanta, GA 30328 (770)604-9182 / FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Sam Naik	Ph:(904)777-4812 Fax:(904) 777-4262	Ph: 615-345-1119 ext 232 Fax: 615-207-9918	Sam.Naik@CH2M.com; Bethany.Garvey@CH2M.com	

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	Volatiles by 8260B	PAHs by 8270C (incl. 1-Methylnaphthalene & 2-Methylnaphthalene)	TRPH by FL-PRO	Metals-Lead only by 6010B				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	86SFF2NWQ308	CEF-043-2N	W	11/06/08	1435	III/C	14	3	2	2	1				N	0811163	-01
2	86SFF4NWQ308	CEF-043-4N	W	11/06/08	1520	III/C	14	3	2	2	1				N	MS / MSD	-02
3	86SFF6NWQ308	CEF-043-6N	W	11/06/08	1055	III/C	14	3	2	2	1				N		-03
4	86SFF7NWQ308	CEF-043-7N	W	11/06/08	1140	III/C	14	3	2	2	1				N		-04
5	86SFF9NWQ308	CEF-043-9N	W	11/06/08	1350	III/C	14	3	2	2	[illegible]				N		-05
6	86SFFMSWQ308	Matrix Spike	W	11/06/08	1520	III/C	14	3	2	2	1				MS	CEF-043-4N	-02
7	86SFFMSDWQ308	Matrix Spike Duplicate	W	11/06/08	1520	III/C	14	3	2	2	1				SD	CEF-043-4N	↓
8	86SFFFDWQ308	Field Duplicate	W	11/06/08	NA	III/C	14	3	2	2	1				FD		-06
9	86SFFEBWQ308	Equipment Blank	W	11/06/08	1550	III/C	14	3	2	2	1				EB		-07
10	86SFFTBWQ308	Trip Blank	W	NA	NA	III/C	14	3									-08

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Craig Haas CH2M HILL	Federal Express Tracking Numbers # 790130279734, 798057214640, 790622056045, 790622056067 (4 Coolers)	2.9°C, 3.5°C, 2.9°C, 3.4°C

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: C. Haas Craig Haas	11/6/2008	18:00	Printed Name and Signature: Federal Express Tracking Numbers # 790130279734, 798057214640, 790622056045, 790622056067 (4 Coolers)	11/6/2008	18:00
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature: William Schwab	11/7/08	09:00

Distribution: [ ] **Original** - Laboratory (To be returned with Analytical Report); [ ] **Copy 1** - Project File; [ ] **Copy 2** - PMO

Form CCI001, Rev 02/00

NAS Cecil Field

PREPARED FOR:	Former NAS Cecil Field / Groundwater Sampling 1st Event 2009
FINAL REVEIWER:	Camden Robinson/ Associate Project Chemist/CH2M HILL
COPIES:	Sam Naik /Project Manager/CCI
DATE:	February 25th, 2009
SUBJECT:	Quality Assessment for Samples Collected February 3rd, 2009 thru February 4th, 2009

This quality assurance memorandum is based upon a review of analytical data generated for groundwater samples and associated field quality control samples collected February 3rd, 2009 thru February 4th, 2009 at the Former Naval Air Station Cecil Field in Jacksonville, Florida. The samples were collected as a part of the Groundwater sampling event conducted at the site. Table 1-1 presents a summary of the CCI sample identification numbers, laboratory sample identification numbers, dates of collection, and the analyses performed.

Empirical Laboratories, Inc. of Nashville, Tennessee served as the laboratory for this Groundwater sampling event for the following analyses:

- Volatile Organic Compounds (VOC) by SW-846 method 8260B
- Polyaromatic nuclear hydrocarbons (PAH) by SW-846 method 8270 SIM,
- Total petroleum hydrocarbons (TPH) by method FL-PRO,
- Lead by SW-846 method 6010B

Table 1-1 ***Summary Sample Data Reviewed Former NAS Cecil Field***

Sample Number	Lab Sample ID	Date Sampled	Analysis Required
86SFFEB1WQ109	0902041-01	02/03/2009	[1], [2], [3], [4]
86SFF7NWQ109	0902041-02	02/03/2009	[1], [2], [3], [4]
86SFF6NWQ109	0902041-03	02/03/2009	[1], [2], [3], [4]
*86SFFFDWQ109	0902041-04	02/03/2009	[1], [2], [3], [4]
86SFF4NWQ109	0902041-05	02/03/2009	[1], [2], [3], [4]
86SFF2NWQ109	0902041-06	02/04/2009	[1], [2], [3], [4]
86SFF9NWQ109	0902041-07	02/04/2009	[1], [2], [3], [4]

Sample Number	Lab Sample ID	Date Sampled	Analysis Required
Trip Blank #6602	0902041-08	02/03/2009	[1]

ANALYSES PERFORMED CODES:
[1] –Volatile Organic Compounds (VOC) by method SW846 8260B,
[2] –Polyaromatic nuclear hydrocarbons (PAH) by method SW846 8270 SIM,
[3] – Total Petroleum Hydrocarbons (TPH) by method FL-PRO,
[4] – Lead by method SW846 6010B
* *86SFFFDWQ109 is the blind field duplicate of 86SFF6NWQ109*

Data for the analyses were reviewed for adherence to the specified analytical protocols in accordance with CCI Sampling Analysis Plan. All analysis results have been validated or qualified according to general guidance provided in the Department of Defense (DOD) Quality Systems Manual-Version 2 June 2002.

The findings of this quality assurance report are based upon the comprehensive review of the following results summaries reported according to the CCI Level C (CLP-like data deliverables format): chain of custody documentation, holding times, laboratory method and field blank analyses, surrogate compound recoveries, matrix spike compound recoveries and reproducibility, bromofluorobenzene (BFB) mass tuning results, initial and continuing calibration, second source recovery and internal standard area performance summaries, target compound identification, laboratory control sample results, laboratory and blind field duplicate sample results, detection limits/sensitivity, ICP interference check sample results, ICP serial dilution results, metals post digestion spikes, and electronic data deliverables.

The analyses were performed acceptably, but require several qualifying statements; it is recommended that the analytical data be used only with the qualifying statements provided below. Any aspects of the data, which are not discussed in this report, should be considered qualitatively and quantitatively valid as reported, based on the deliverables reviewed. A result summary report presenting the validated and qualified results is presented in Attachment I.

General Data Qualifiers

As required by U.S. EPA protocols, all compounds which were qualitatively identified at concentrations below their respective reporting limits (RL) but above the method detection limit (MDL) have been qualified with "J" qualifiers on the data summary reports to indicate that they are quantitative estimates.

GROUNDWATER CLEANUP TARGET ACTION LEVEL REGULARTORY LIMITS

All samples collected and analyzed for the month of February 2009 for the volatile organic compounds, polyaromatic hydrocarbon compounds, total petroleum hydrocarbon, and lead analyses were less than the action level groundwater cleanup target level regulartory limits with the exception of the analytes listed below:

Analyte (Volatile List)	Affected Sample	Sample Results (ug/L)	Groundwater Cleanup Target Levels (ug/L)
Benzene	86SFF7NWQ109	190	1
Ethylbenzene	86SFF7NWQ109	520	30
Xylenes (total)	86SFF7NWQ109	2600 J	20

Analyte (PAH List)	Affected Sample	Sample Results (ug/L)	Groundwater Cleanup Target Levels (ug/L)
Dibenz(a,h)anthracene	86SFF4NWQ109	0.012 B	28
Naphthalene	86SFF7NWQ109	42 JB	14

Analyte (PRO List)	Affected Sample	Sample Results (ug/L)	Groundwater Cleanup Target Levels (ug/L)
PRO	86SFF2NWQ109	9300	5000
PRO	86SFF7NWQ109	6000	5000

Analyte (Metals)	Affected Sample	Sample Results (ug/L)	Groundwater Cleanup Target Levels (ug/L)
Lead	86SFF9NWQ109	21.1 B	15

Organic Data Qualifiers

The positive results reported for xylenes, 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene for sample 86SFF7NWQ109 should be considered biased low quantitative estimates and may be higher than reported. The associated recoveries for the client specific matrix spike (MS) and matrix spike duplicate (MSD) samples were below the established quality control (QC) limit for these analytes. The bias low recoveries for these compounds indicate the possible presence of matrix interferences in samples of similar matrix. This has been indicated by placing "J" qualifiers next to the reported results for xylenes, 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene for sample 86SFF7NWQ109 on the data summary tables.

The positive results for acenaphthene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, 1-methylnaphthalene, 2-methylnaphthalene, phenanthrene, and pyrene reported in the samples listed below are considered quantitative estimates due to the level at which these compounds were present in the associated equipment and/or laboratory method blanks. This has been indicated in the data summary tables by placing a "JB" qualifier next to the reported values for samples associated with equipment blank contaminations and a "B" qualifier for sample results associated with method blank contamination.

Compound	Affected Samples
Acenaphthene	86SFF6NWQ109, 86SFFFDWQ109, and 86SFF4NWQ109
Benzo(b)fluoranthene	86SFFFDWQ109 and 86SFF4NWQ109
Benzo(k)fluoranthene	86SFF7NWQ109, 86SFFFDWQ109, and 86SFF4NWQ109
Benzo(g,h,i)perylene	86SFFFDWQ109 and 86SFF4NWQ109
Benzo(a)pyrene	86SFF7NWQ109 and 86SFFFDWQ109
Dibenz(a,h)anthracene	86SFFFDWQ109 and 86SFF4NWQ109
Fluoranthene	86SFF7NWQ109, 86SFF4NWQ109, and 86SFF9NWQ109
Fluorene	86SFFFDWQ109, 86SFF4NWQ109, and 86SFF9NWQ109
Indeno(1,2,3-cd)pyrene	86SFFFDWQ109 and 86SFF4NWQ109
Naphthalene	86SFF7NWQ109, 86SFF4NWQ109, 86SFF2NW109, and 86SFF9NWQ109
1-Methynaphthalene	86SFF7NWQ109, 86SFF6NWQ109, 86SFFFDWQ109, 86SFF4NWQ109, 86SFF2NW109, and 86SFF9NWQ109
2-Methylnaphthalene	86SFF7NWQ109, 86SFF6NWQ109, 86SFFFDWQ109, 86SFF4NWQ109, 86SFF2NW109, and 86SFF9NWQ109
Phenanthrene	86SFF6NWQ109
Pyrene	86SFF7NWQ109, 86SFFFDWQ109, 86SFF4NWQ109, and 86SFF9NWQ109

The sample presented below was analyzed at a dilution for the analysis indicated. This dilution was required to prevent saturation of the instrument, to allow quantitation of the compounds within the linear range of the calibration curve, and/or to reduce the effects of the matrix on the target compounds. Positive results for compounds reported above the calibration range in the initial analysis have been reported from the diluted analyses. When possible, results and quantitation limits for all other compounds were reported from the initial analysis. Higher quantitation limits were reported for specific volatile organic compounds analyses, which were not detected in the diluted sample. This should be noted when assessing these samples for the qualitative absence of specific volatile organic compounds.

Sample ID	Analysis	Dilution Factor
86SFF7NWQ109	VOC	10X

Sample 86SFF6NWQ109 and its blind field duplicate sample 86SFFFDWQ109 were submitted to the laboratory to evaluate sampling and analytical precision for those compounds determined to be confidently detected. All compounds met CCI's blind duplicate precision criteria of 30% for water samples relative percent difference (RPD) for volatile organic, polyaromatic hydrocarbons, and petroleum range organics (PRO) analyses. The RPD was not calculated for the compounds that were not detected in both samples.

Inorganic Data Qualifiers

The positive results for lead reported in the samples listed below are considered quantitative estimates due to the level at which the element was present in the associated continuing calibration blank. This has been indicated in the data summary tables by placing a "B" qualifier next to the sample results associated with continuing calibration blank contamination.

Compound	Affected Samples
Lead	86SFF2NWQ109 and 86SFF9NWQ109

Sample 86SFF6NWQ109 and its blind field duplicate sample 86SFFFDWQ109 were submitted to the laboratory to evaluate sampling and analytical precision for those compounds determined to be confidently detected. All compounds met CCI's blind duplicate precision criteria of 30% for water samples relative percent difference (RPD) for metals analyses. The RPD was not calculated for the compounds that were not detected in both samples.

Summary

The organic and inorganic analyses were performed acceptably, but required qualifying statements. This analytical quality assurance report has identified the aspects of the data, which required qualification. These qualifiers are noted on the attached analytical sample summary reports. A support documentation package has been prepared for this quality assurance review and is filed with the Former NAS Cecil Field CTO 86/ Groundwater Sampling 1st Event 2009 project file.

Attachment I

VALID QUALIFIERS

QUALIFIER	
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit
J	The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R/UR	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified.
B	The analyte was detected in the associated method and/or calibration blank.
JB	The analyte detected in the associated field, equipment, and/or trip blank.

QUALIFICATION CODE REFERENCE

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect.
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient is <0.995.
K	Second source %D was noncompliant.	Second source %D was noncompliant.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.
MB	Presumed contamination from preparation (method) blank.	Presumed contamination from preparation (method) blank or calibration blank.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or high RPD.	MS/MSD recovery was poor or high RPD.
G	Result is over the calibration range. No other acceptable result was provided.	Result is over the calibration range. Not other acceptable result was provided.
E	Not applicable.	Lab duplicate RPD showed poor agreement.
Z	Field duplicate RPD showed poor agreement.	Field duplicate RPD showed poor agreement
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D was not within control limits.
TN	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
T	Presumed contamination from trip blank.	Not applicable.
+	False positive—reported compound was not present.	Not applicable.
-	False negative—compound was present but not reported.	Not applicable.
F	Presumed contamination from FB or ER.	Presumed contamination from FB or ER.
$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.
D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Confirmation analysis RPD exceeded 40%.	Post Digestion Spike recovery was not within control limits.
T/D	Not applicable.	Total metals results were less than the dissolved metals result.
SD	Not applicable.	Seed correction factor was below the acceptable limit.
M	Results should be considered estimated due to matrix effects caused by saturation of non-target analytes.	Not applicable

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFEB1WQ109

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02041

Matrix: (soil/water) WATER Lab Sample ID: 0902041-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0204101

Level: (low/med) LOW Date Sampled: 02/03/09 11:00

% Moisture: not dec. _____ Date Analyzed: 02/10/09 18:34

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	1.0		U
100-41-4	Ethylbenzene	0.10	1.0		U
108-88-3	Toluene	0.14	1.0		U
1330-20-7	Xylene(total)	0.21	1.0		U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF7NWQ109

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02041

Matrix: (soil/water) WATER Lab Sample ID: 0902041-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0204102D

Level: (low/med) LOW Date Sampled: 02/03/09 12:21

% Moisture: not dec. _____ Date Analyzed: 02/10/09 22:00

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	1.2	10	190	~~D~~ =
100-41-4	Ethylbenzene	1.0	10	520	~~D~~ =
108-88-3	Toluene	1.4	10	21	~~D~~ =
1330-20-7	Xylene(total)	2.1	10	2600	~~D~~ J-Q

ok

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF6NWQ109

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02041

Matrix: (soil/water) WATER Lab Sample ID: 0902041-03

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0204103

Level: (low/med) LOW Date Sampled: 02/03/09 15:40

% Moisture: not dec. _____ Date Analyzed: 02/10/09 19:04

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	1.0	0.59	J
100-41-4	Ethylbenzene	0.10	1.0	2.7	
108-88-3	Toluene	0.14	1.0		U
1330-20-7	Xylene(total)	0.21	1.0	0.54	J

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFFDWQ109

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02041

Matrix: (soil/water) WATER Lab Sample ID: 0902041-04

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0204104

Level: (low/med) LOW Date Sampled: 02/03/09 15:40

% Moisture: not dec. _____ Date Analyzed: 02/10/09 19:33

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	1.0	0.60	J
100-41-4	Ethylbenzene	0.10	1.0	2.6	
108-88-3	Toluene	0.14	1.0		U
1330-20-7	Xylene(total)	0.21	1.0	0.31	J

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF4NWQ109

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02041

Matrix: (soil/water) WATER Lab Sample ID: 0902041-05

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0204105

Level: (low/med) LOW Date Sampled: 02/03/09 16:50

% Moisture: not dec. _____ Date Analyzed: 02/10/09 20:02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	1.0		U
100-41-4	Ethylbenzene	0.10	1.0	0.12	J
108-88-3	Toluene	0.14	1.0		U
1330-20-7	Xylene(total)	0.21	1.0		U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF2NWQ109

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02041

Matrix: (soil/water) WATER Lab Sample ID: 0902041-06

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0204106

Level: (low/med) LOW Date Sampled: 02/04/09 08:40

% Moisture: not dec. _____ Date Analyzed: 02/10/09 20:32

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	1.0		U
100-41-4	Ethylbenzene	0.10	1.0	21	
108-88-3	Toluene	0.14	1.0	0.47	J
1330-20-7	Xylene(total)	0.21	1.0	7.5	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF9NWQ109

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02041

Matrix: (soil/water) WATER Lab Sample ID: 0902041-07

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0204107

Level: (low/med) LOW Date Sampled: 02/04/09 09:35

% Moisture: not dec. _____ Date Analyzed: 02/10/09 21:01

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	1.0		U
100-41-4	Ethylbenzene	0.10	1.0	6.6	
108-88-3	Toluene	0.14	1.0		U
1330-20-7	Xylene(total)	0.21	1.0	15	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLA
NK #6602

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.V02041

Matrix: (soil/water) WATER Lab Sample ID: 0902041-08

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0204108

Level: (low/med) LOW Date Sampled: 02/04/09 :

% Moisture: not dec. _____ Date Analyzed: 02/10/09 18:05

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
71-43-2	Benzene	0.12	1.0		U
100-41-4	Ethylbenzene	0.10	1.0		U
108-88-3	Toluene	0.14	1.0		U
1330-20-7	Xylene(total)	0.21	1.0		U

FORM I VOA

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFEB1WQ109

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02041

Matrix: (soil/water) WATER Lab Sample ID: 0902041-01

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 0204101

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/03/09 11:00

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted: 02/06/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 02/12/09 22:30

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.0056	0.092	0.0079	JB
208-96-8	Acenaphthylene	0.0046	0.092		U
120-12-7	Anthracene	0.0092	0.092	0.012	JB
56-55-3	Benzo(a)anthracene	0.012	0.046	0.023	JB
205-99-2	Benzo(b)fluoranthene	0.011	0.046	0.011	J
207-08-9	Benzo(k)fluoranthene	0.0083	0.046	0.014	JB
191-24-2	Benzo(g,h,i)perylene	0.0065	0.092	0.0072	JB
50-32-8	Benzo(a)pyrene	0.0056	0.046	0.0086	JB
218-01-9	Chrysene	0.010	0.092	0.023	JB
53-70-3	Dibenz(a,h)anthracene	0.0046	0.018		U
206-44-0	Fluoranthene	0.012	0.092	0.020	JB
86-73-7	Fluorene	0.0065	0.092	0.011	JB
193-39-5	Indeno(1,2,3-cd)pyrene	0.0037	0.046		U
90-12-0	1-Methylnaphthalene	0.0074	0.092	0.025	JB
91-57-6	2-Methylnaphthalene	0.0056	0.092	0.031	JB
91-20-3	Naphthalene	0.012	0.092	0.077	JB
85-01-8	Phenanthrene	0.0074	0.092	0.023	JB
129-00-0	Pyrene	0.012	0.092	0.019	JB

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF7NWQ109

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02041

Matrix: (soil/water) WATER Lab Sample ID: 0902041-02

Sample wt/vol: 1040 (g/mL) ML Lab File ID: 0204102

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/03/09 12:21

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted: 02/06/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 02/12/09 22:59

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.0058	0.096		U
208-96-8	Acenaphthylene	0.0048	0.096		U
120-12-7	Anthracene	0.0096	0.096		U
56-55-3	Benzo(a)anthracene	0.012	0.048		U
205-99-2	Benzo(b)fluoranthene	0.012	0.048		U
207-08-9	Benzo(k)fluoranthene	0.0086	0.048	0.0093	JB-F, MB
191-24-2	Benzo(g,h,i)perylene	0.0067	0.096		U
50-32-8	Benzo(a)pyrene	0.0058	0.048	0.0064	JB-F, MB
218-01-9	Chrysene	0.010	0.096		U
53-70-3	Dibenz(a,h)anthracene	0.0048	0.019		U
206-44-0	Fluoranthene	0.012	0.096	0.016	JB-F, MB
86-73-7	Fluorene	0.0067	0.096		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0038	0.048		U
90-12-0	1-Methylnaphthalene	0.0077	0.096	12	~~B~~ JB-F, MB,
91-57-6	2-Methylnaphthalene	0.0058	0.096	17	~~B~~ JB-F, MB,
91-20-3	Naphthalene	0.012	0.096	42	~~B~~ JB-F, MB,
85-01-8	Phenanthrene	0.0077	0.096		U
129-00-0	Pyrene	0.012	0.096	0.016	JB-F, MB

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF6NWQ109

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02041

Matrix: (soil/water) WATER Lab Sample ID: 0902041-03

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 0204103

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/03/09 15:40

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/06/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 02/12/09 23:28

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.0056	0.092	0.033	JB-F, mB
208-96-8	Acenaphthylene	0.0046	0.092		U
120-12-7	Anthracene	0.0092	0.092		U
56-55-3	Benzo(a)anthracene	0.012	0.046		U
205-99-2	Benzo(b)fluoranthene	0.011	0.046		U
207-08-9	Benzo(k)fluoranthene	0.0083	0.046		U
191-24-2	Benzo(g,h,i)perylene	0.0065	0.092		U
50-32-8	Benzo(a)pyrene	0.0056	0.046		U
218-01-9	Chrysene	0.010	0.092		U
53-70-3	Dibenz(a,h)anthracene	0.0046	0.018		U
206-44-0	Fluoranthene	0.012	0.092		U
86-73-7	Fluorene	0.0065	0.092		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0037	0.046		U
90-12-0	1-Methylnaphthalene	0.0074	0.092	0.31	~~B~~ JB-F, mB
91-57-6	2-Methylnaphthalene	0.0056	0.092	0.54	~~B~~ JB-F, mB
91-20-3	Naphthalene	0.012	0.092		U
85-01-8	Phenanthrene	0.0074	0.092	0.038	JB-F, mB
129-00-0	Pyrene	0.012	0.092		U

0-1

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFFDWQ109

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02041

Matrix: (soil/water) WATER Lab Sample ID: 0902041-04

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 0204104

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/03/09 15:40

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted: 02/06/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 02/12/09 23:57

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.0056	0.092	0.032	JB-F, mB
208-96-8	Acenaphthylene	0.0046	0.092		U
120-12-7	Anthracene	0.0092	0.092		U
56-55-3	Benzo(a)anthracene	0.012	0.046		U
205-99-2	Benzo(b)fluoranthene	0.011	0.046	0.016	JB-F
207-08-9	Benzo(k)fluoranthene	0.0083	0.046	0.020	JB-F, mB
191-24-2	Benzo(g,h,i)perylene	0.0065	0.092	0.0095	JB-F, mB
50-32-8	Benzo(a)pyrene	0.0056	0.046	0.010	JB-F, mB
218-01-9	Chrysene	0.010	0.092		U
53-70-3	Dibenz(a,h)anthracene	0.0046	0.018	0.0094	~~JB~~ B-mB
206-44-0	Fluoranthene	0.012	0.092		U
86-73-7	Fluorene	0.0065	0.092	0.048	JB-F, mB
193-39-5	Indeno(1,2,3-cd)pyrene	0.0037	0.046	0.0094	~~JB~~ B-mB
90-12-0	1-Methylnaphthalene	0.0074	0.092	0.28	~~B~~ ~~JB~~-F, mB
91-57-6	2-Methylnaphthalene	0.0056	0.092	0.49	~~B~~ ~~JB~~-F, mB
91-20-3	Naphthalene	0.012	0.092		U
85-01-8	Phenanthrene	0.0074	0.092	0.049	JB-F, mB
129-00-0	Pyrene	0.012	0.092	0.023	JB-F, mB

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF4NWQ109

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02041

Matrix: (soil/water) WATER Lab Sample ID: 0902041-05

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 0204105

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/03/09 16:50

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted: 02/06/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 02/13/09 00:26

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.0056	0.092	1.4	~~B~~ JB-F, mB
208-96-8	Acenaphthylene	0.0046	0.092		U
120-12-7	Anthracene	0.0092	0.092		U
56-55-3	Benzo(a)anthracene	0.012	0.046		U
205-99-2	Benzo(b)fluoranthene	0.011	0.046	0.016	JB-F
207-08-9	Benzo(k)fluoranthene	0.0083	0.046	0.0084	JB-F, mB
191-24-2	Benzo(g,h,i)perylene	0.0065	0.092	0.012	JB-F, mB
50-32-8	Benzo(a)pyrene	0.0056	0.046		U
218-01-9	Chrysene	0.010	0.092		U
53-70-3	Dibenz(a,h)anthracene	0.0046	0.018	0.012	~~JB~~ B-mB
206-44-0	Fluoranthene	0.012	0.092	0.078	JB-F, mB
86-73-7	Fluorene	0.0065	0.092	0.68	~~B~~ JB-F, mB
193-39-5	Indeno(1,2,3-cd)pyrene	0.0037	0.046	0.011	~~JB~~ B-mB
90-12-0	1-Methylnaphthalene	0.0074	0.092	0.48	~~B~~ JB-F, mB
91-57-6	2-Methylnaphthalene	0.0056	0.092	0.49	~~B~~ JB-F, mB
91-20-3	Naphthalene	0.012	0.092	0.52	~~B~~ JB-F, mB
85-01-8	Phenanthrene	0.0074	0.092	0.35	~~B~~ JB-F, mB
129-00-0	Pyrene	0.012	0.092	0.12	~~B~~ JB-F, mB

C-1

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF2NWQ109

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02041

Matrix: (soil/water) WATER Lab Sample ID: 0902041-06

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 0204106

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/04/09 08:40

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted: 02/06/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 02/13/09 00:55

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.0056	0.092		U
208-96-8	Acenaphthylene	0.0046	0.092	0.21	
120-12-7	Anthracene	0.0092	0.092		U
56-55-3	Benzo(a)anthracene	0.012	0.046		U
205-99-2	Benzo(b)fluoranthene	0.011	0.046		U
207-08-9	Benzo(k)fluoranthene	0.0083	0.046		U
191-24-2	Benzo(g,h,i)perylene	0.0065	0.092		U
50-32-8	Benzo(a)pyrene	0.0056	0.046		U
218-01-9	Chrysene	0.010	0.092		U
53-70-3	Dibenz(a,h)anthracene	0.0046	0.018		U
206-44-0	Fluoranthene	0.012	0.092		U
86-73-7	Fluorene	0.0065	0.092		U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0037	0.046		U
90-12-0	1-Methylnaphthalene	0.0074	0.092	2.4	~~B~~ JB-F, MB
91-57-6	2-Methylnaphthalene	0.0056	0.092	2.5	~~B~~ JB-F, MB
91-20-3	Naphthalene	0.012	0.092	12	~~B~~ JB-F, MB
85-01-8	Phenanthrene	0.0074	0.092		U
129-00-0	Pyrene	0.012	0.092		U

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF9NWQ109

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CH2.B02041

Matrix: (soil/water) WATER Lab Sample ID: 0902041-07

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 0204107

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/04/09 09:35

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/06/09

Concentrated Extract Volume: 1000.0(uL) Date Analyzed: 02/13/09 01:23

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
83-32-9	Acenaphthene	0.0056	0.092		U
208-96-8	Acenaphthylene	0.0046	0.092	0.38	
120-12-7	Anthracene	0.0092	0.092		U
56-55-3	Benzo(a)anthracene	0.012	0.046		U
205-99-2	Benzo(b)fluoranthene	0.011	0.046		U
207-08-9	Benzo(k)fluoranthene	0.0083	0.046		U
191-24-2	Benzo(g,h,i)perylene	0.0065	0.092		U
50-32-8	Benzo(a)pyrene	0.0056	0.046		U
218-01-9	Chrysene	0.010	0.092		U
53-70-3	Dibenz(a,h)anthracene	0.0046	0.018		U
206-44-0	Fluoranthene	0.012	0.092	0.022	JB-F, MB
86-73-7	Fluorene	0.0065	0.092	0.15	B JB-F, MB
193-39-5	Indeno(1,2,3-cd)pyrene	0.0037	0.046		U
90-12-0	1-Methylnaphthalene	0.0074	0.092	15	B JB-F, MB
91-57-6	2-Methylnaphthalene	0.0056	0.092	18	B JB-F, MB
91-20-3	Naphthalene	0.012	0.092	14	B JB-F, MB
85-01-8	Phenanthrene	0.0074	0.092		U
129-00-0	Pyrene	0.012	0.092	0.016	JB-F, MB

FORM I SV

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFEB1WQ109

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.F02041

Matrix: (soil/water) WATER Lab Sample ID: 0902041-01

Sample wt/vol: 1065 (g/mL) ML Lab File ID: 018R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/03/09 11:00

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/06/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/06/09 23:21

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
PRO-8-40------Petroleum Range		0.16	0.47		U

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF7NWQ109

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.F02041

Matrix: (soil/water) WATER Lab Sample ID: 0902041-02

Sample wt/vol: 1040 (g/mL) ML Lab File ID: 019R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/03/09 12:21

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/06/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/06/09 23:47

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.16	0.48	6.0	

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF6NWQ109

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.F02041

Matrix: (soil/water) WATER Lab Sample ID: 0902041-03

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 022R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/03/09 15:40

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/06/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/07/09 01:06

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.16	0.46	1.4	

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFFFDWQ109

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.F02041

Matrix: (soil/water) WATER Lab Sample ID: 0902041-04

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 023R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/03/09 15:40

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/06/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/07/09 01:33

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.16	0.46	1.4	

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF4NWQ109

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.F02041

Matrix: (soil/water) WATER Lab Sample ID: 0902041-05

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 024R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/03/09 16:50

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/06/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/07/09 01:59

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
PRO-8-40------	Petroleum Range	0.16	0.46	2.6	

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF2NWQ109

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.F02041

Matrix: (soil/water) WATER Lab Sample ID: 0902041-06

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 025R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/04/09 08:40

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/06/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/07/09 02:26

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.16	0.46	9.3	

C.A

FORM I PRO

FORM 1
PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

86SFF9NWQ109

Lab Name: EMPIRICAL LABS Contract: CH2MHILL

Lab Code: Case No.: SAS No.: NA SDG No.: CH2.F02041

Matrix: (soil/water) WATER Lab Sample ID: 0902041-07

Sample wt/vol: 1080 (g/mL) ML Lab File ID: 026R0201

% Moisture: _____ decanted: (Y/N)___ Date Sampled: 02/04/09 09:35

Extraction: (SepF/Cont/Sonc/Soxh) SEPF Date Extracted:02/06/09

Concentrated Extract Volume: 2.0(mL) Date Analyzed: 02/07/09 02:53

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
	PRO-8-40------Petroleum Range	0.16	0.46	2.7	

FORM I PRO

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFFEB1WQ109

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0902041

Matrix (soil/water) WATER Lab Sample ID: 0902041-01

Level (low/med): LOW Date Received: 2/5/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	3.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Form IA-IN

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFF7NWQ109

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0902041

Matrix (soil/water) WATER Lab Sample ID: 0902041-02

Level (low/med): LOW Date Received: 2/5/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	2.8	J		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFF6NWQ109

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0902041

Matrix (soil/water) WATER Lab Sample ID: 0902041-03

Level (low/med): LOW Date Received: 2/5/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	7.4			P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFFFDWQ109

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0902041

Matrix (soil/water) WATER Lab Sample ID: 0902041-04

Level (low/med): LOW Date Received: 2/5/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	7.4			P

CL

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFF4NWQ109

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0902041

Matrix (soil/water) WATER Lab Sample ID: 0902041-05

Level (low/med): LOW Date Received: 2/5/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	1.7	J		P

ch

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFF2NWQ109

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0902041

Matrix (soil/water) WATER Lab Sample ID: 0902041-06

Level (low/med): LOW Date Received: 2/5/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	5.7		B	P

MB

C-L

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Form IA-IN

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

86SFF9NWQ109

Lab Name: Empirical Laboratories Contract: CH2M Hill

Lab Code: _____ Case No.: _____ NRAS No.: _____ SDG NO.: 0902041

Matrix (soil/water) WATER Lab Sample ID: 0902041-07

Level (low/med): LOW Date Received: 2/5/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	21.1		B	P

mB

CL

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Form IA-IN

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
271591-050 page 1 of 1

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
Former NAS Cecil Field	271591	Empirical Laboratories, LLC	Bethany Garvey / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 FAX:604-9282
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
South Fuel Farm - Quarterly GW Sampling	CTO 0086	810157		
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Sam Naik	770-604-9182	615-345-1115		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	BETX by 8260B	PAHs + 1-Methylnaphalene and 2-Methylnapthalene by 8310, TRPH by [illegible] with carbon group speciation maaaa	Metals-Lead							SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	86SFFEB1WQ109	Pre-Equipment Blank	Wtr	02/03/09	1100	III/C	14	3	2	2	1							0902041	-01
2	86SFF7NWQ109	MW 7N	Wtr	02/03/09	1221	III/C	14	3	2	2	1								-02
3	86SFFMSWQ109	MS	Wtr	02/03/09	1221	III/C	14	3	2	2	1								↓
4	86SFFMSDWQ109	MSD	Wtr	02/03/09	1221	III/C	14	3	2	2	1								↓
5	86SFF7NWQ109	MW 6N	Wtr	02/03/09	1540	III/C	14	3	2	2	1								-03
6	86SFFFDWQ109	Field Duplicate	Wtr	02/03/09	1540	III/C	14	3	2	2	1								-04
7	86SFF4NWQ109	MW 4N	Wtr	02/03/09	1650	III/C	14	3	2	2	1								-05
8	86SFF2NWQ109	MW 2N	Wtr	02/07/08	840	III/C	14	3	2	2	1								-06
9	86SFF9NWQ109	MW 9N	Wtr	02/04/09	935	III/C	14	3	2	2	1								-07
10	Trip Blank #6602																		-08
11																			

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Craig Haas, Andrew O'Connor CH2M HILL/CCI	Federal Express Tracking Numbers: 7963 1275 9410, 7963 1275 9454, 7963 1275 9476, and 7963 0918 3338 (4 Coolers)	3-5°C, 0.8°C, 2.6°C, 1.8°C

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
C. Haas Craig Haas	2/4/2009	18:00	Federal Express	2/4/2009	18:00
Printed Name and Signature:			Printed Name and Signature:		
			William Schwab	2/5/09	09:00

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CCI001, Rev 02/00