FINAL

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SECOND ANNUAL MONITORING AND FREE PRODUCT REMOVAL REPORT

3d Inf Div (Mech)

Former Underground Storage Tank 117
Building 7009
Bulk Fuel Facility (HAA-09)
Facility ID #9-025113*2
Hunter Army Airfield, Georgia

Prepared for

U.S. ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

Contract No. DACA21-02-D-0004
Delivery Order 0044

December 2005

SAIC®

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FINAL

SECOND ANNUAL MONITORING AND FREE PRODUCT REMOVAL REPORT FOR FORMER UNDERGROUND STORAGE TANK 117 BUILDING 7009 BULK FUEL FACILITY (HAA-09) FACILITY ID #9-025113*2 HUNTER ARMY AIRFIELD, GEORGIA

Prepared for

U. S. Army Corps of Engineers, Savannah District
and
Fort Stewart Directorate of Public Works
Under Contract Number DACA21-02-D-0004
Delivery Order 0044

Prepared by

Science Applications International Corporation
P.O. Box 2501
Oak Ridge, TN 37831

December 2005

CONTENTS

List of Abbreviations and Acronyms

ACL	alternate concentration limit
AST	aboveground storage tank
BTEX	benzene, toluene, ethylbenzene, and xylenes
CAP	Corrective Action Plan
EPA	U. S. Environmental Protection Agency
GA EPD	Georgia Environmental Protection Division
IWQS	In-Stream Water Quality Standard
MCL	maximum contaminant level
PAH	polynuclear aromatic hydrocarbon
SAIC	Science Applications International Corporation
UST	underground storage tank

MONITORING AND FREE PRODUCT REMOVAL REPORT

Submittal Date: November 2005 Monitoring Report Number: 2nd Annual

For Period Covering: July 2004 to January 2005

Facility Name: Former UST 117 Street Address: Bulk Fuel Facility, Building 7002

Facility ID: 9-025113*2 City: Savannah County: Chatham Zip Code: 31409

Latitude: 32°01'43" Longitude: 81°08'37"

Submitted by UST Owner/Operator:		Prepared by Consultant/Contractor:	
Name:	Thomas C. Fry/Environmental Branch	Name:	Patricia A. Stoll
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I. REGISTERED PROFESSIONAL ENGINEER OR PROFESSIONAL GEOLOGIST CERTIFICATION

I hereby certify that I have directed and supervised the fieldwork and preparation of this plan in accordance with State Rules and Regulations. As a registered professional geologist and/or professional engineer, I certify that I am a qualified groundwater professional, as defined by the Georgia State Board of Professional Geologists. All of the information and laboratory data in this plan and in all of the attachments are true, accurate, complete, and in accordance with applicable State Rules and Regulations.

Name: Patricia A. Stoll

Signature: Patricia A. Stoll

Date: 12/6/05

PStoll 12/6/05

Georgia Stamp or Seal

II. PROJECT SUMMARY

(Appendix I, Figure 1: Site Location Map)

Provide a brief description or explanation of the site and a brief chronology of environmental events leading up to this report.

Former Underground Storage Tank (UST) 117, Facility ID #9-025113*1, was located near Building 7002 at the Bulk Fuel Facility at Hunter Army Airfield, Georgia. The Bulk Fuel Facility is approximately 600 by 1,200 ft and covers an area of approximately 16.5 acres. Currently, the facility contains three aboveground storage tanks (ASTs) for the storage of jet propellant (JP)-8 with capacities of approximately 500,000 gal each, aboveground and underground piping, and off-loader and pump stations for the distribution of fuel to and from the tanks. The tank was removed and the piping abandoned in place on September 30, 1996. Science Applications International Corporation (SAIC) performed a soil gas survey in January 1999 to identify areas of significant contaminant concentrations (SAIC 1999). SAIC conducted a Corrective Action Plan (CAP)–Part A investigation in December 1999 and January 2000 and a CAP–Part B investigation from November 2000 to March 2001 to determine the extent of petroleum contamination at the site. Thirty-four monitoring wells, seven soil borings, and six vertical-profile borings were installed during these investigations, and surface water and sediment samples were collected from Lamar Canal. The CAP–Part B Report (SAIC 2001) was submitted to the Georgia Environmental Protection Division (GA EPD) UST Management Program in July 2001. The report recommended that a well be installed to replace BF-MW-21, which had been destroyed, and that seven monitoring wells (i.e., BF-MW-19, BF-MW-20, BF-MW-21R, BF-MW-22, BF-MW-32, BF-MW-33, and BF-MW-34) be sampled on a semiannual basis for benzene, toluene, ethylbenzene, and xylenes (BTEX) and polynuclear aromatic hydrocarbons (PAHs) because benzene and naphthalene were selected as constituents of potential concern in groundwater. The fate and transport modeling performed as part of the CAP–Part B Report reflected a continuous source of contamination. The results are summarized in Attachment A of this document.

In July 2002 and January 2003, free product was observed in well BF-MW-E5, which is located in the vicinity of AST 7009. This tank is approximately 500 ft northeast of AST 7003, which is where the groundwater plume is being monitored. Free product was not observed in this well during the CAP–Part B investigation. During that investigation, the BTEX and PAH constituents detected in the well were below the maximum contaminant level (MCL), the In-Stream Water Quality Standard (IWQS), and the alternate concentration limit (ACL); therefore, groundwater monitoring of this area was not warranted.

It was apparent that there were two separate releases at the Bulk Fuel Facility. For clarification, Release #1 is associated with the groundwater plume in the vicinity of AST 7003 where the original semiannual monitoring only program was conducted. GA EPD granted no further action for Release #1 in correspondence dated October 6, 2003 (Lewis 2003). Release #2 is associated with the free product observed in well BF-MW-E5, which is in the vicinity of AST 7009 and has been assigned Facility ID #9-025113*2.

As recommended in the First Annual Monitoring Only Report (SAIC 2003), three additional wells were installed around the perimeter of the bermed area in the vicinity of AST 7009 to confirm that free product in BF-MW-E5 was not from an upgradient source or migrating downgradient of the AST containment area. Well construction diagrams are provided in Attachment D. Due to the construction of the containment area around the AST, the “E” series of monitoring wells could not be overdrilled and screened across the water table. Also, additional wells could not be installed within the containment area do to accessibility issues.

The purpose of the semiannual monitoring, summarized in this report, was to confirm that natural attenuation is taking place at the site and to document the free product removal activities at the site. In accordance with recommendations made in the First Annual Monitoring Only Report (SAIC 2003), ACLs will be developed for any constituent exceeding its respective IWQS by conducting fate and transport modeling specifically for Release #2. During the year of semiannual monitoring associated with Release #2, none of the constituents exceeded its respective IWQS, thus ACLs were not developed at this time. The monitoring only plan for Release #2 will be terminated if contaminant concentrations are less that their respective IWQS or ACL and if free product is less that 1/8-in. The monitoring only program may be terminated regardless of the site ranking score.

III. ACTIVITIES AND ASSESSMENT OF EXISTING CONDITIONS

A. Potentiometric Data:

(Appendix I, Figure 2: Potentiometric Surface Map)
(Appendix II, Table 1: Groundwater Elevations)

Discuss groundwater flow at this site and implications for this project.

During the water level measurement activities at the site during the semiannual monitoring for Release #1, free product was identified in well BF-MW-E5 (i.e., Release #2). This well is located within the containment system of active AST 7009 and is approximately 500 ft northeast of AST 7003 and Release #1. During the CAP–Part B investigation, free product was not observed in well BF-MW-E5. In June 2004, three additional wells were installed around the perimeter of the containment area associated with AST 7009 to confirm that free product was not migrating beyond the perimeter of the containment area and that free product was not coming from an upgradient source. Well BF-MW-E5 is the only well at the site that contains free product.

At various times throughout the year, the water level in BF-MW-E5 is above the screened interval, thus free product is being removed by aggressively pumping the well on a bi-monthly basis with absorbent socks placed in the well in between pumping events when the presence of free product warrants absorbent sock placement. This alternative ensures the active AST system for the Army's Southeastern Power Projection Platform stays operational and that the integrity of the associated system remains intact. The free product removal activities were initiated in June 2004, when there was 3.14 ft of free product present in BF-MW-05. The free product thickness has continued to decrease since June 2004 with the bi-monthly pumping events. Absorbent socks have not been placed in the well since July 2004. Since October 2004, the maximum free product thickness was 0.01 ft in February 2005. In the other monthly measurements, there has either been a sheen or no product present. A summary of free product removal activities is provided in Table 4.

During the third semiannual monitoring event in July 2004, groundwater elevations were measured in the site monitoring wells to determine the groundwater flow direction (Table 1). In July 2004, the groundwater flow direction ranged from the south to the southeast toward Lamar Canal, and the average groundwater gradient was approximately 0.008 ft/ft. Free product was observed in well BF-MW-E5, which is associated with Release #2.

During the fourth semiannual monitoring event in January 2005, groundwater elevations were measured in the site monitoring wells to determine the groundwater flow direction (Table 1). In January 2005, the groundwater flow direction was to the southeast toward Lamar Canal, and the average groundwater gradient was approximately 0.007 ft/ft. A sheen was observed in well BF-MW-E5, which is associated with Release #2.

B. Analytical Data:

(Appendix I, Figure 3: Groundwater Quality Map)
(Appendix I, Figure 4: Trend of Contaminant Concentrations)
(Appendix II, Table 2: Groundwater Analytical Results)
(Appendix II, Table 3: Soil Analytical Results)
(Appendix III: Laboratory Analytical Results)

Discuss groundwater analysis results, trend of contaminant concentrations, and implications for this project.

During the third semiannual sampling event in July 2004, which is associated with Release #2, monitoring wells BF-MW-E1, BF-MW-E2, BF-MW-E3, BF-MW-E4, BF-MW-E5, BF-MW-E6, BF-MW-04, BF-MW-25, BF-MW-26, BF-MW-27, BF-MW-35, BF-MW-36, and BF-MW-37 were sampled for BTEX using U. S. Environmental Protection Agency (EPA) Method 8021B/8260B and PAHs using EPA Method 8270C. Analytical results from the sampling event are summarized below.

- Benzene was detected in 1 of 13 groundwater samples at a concentration of 2.0 µg/L. The concentration did not exceed the IWQS of 71.28 µg/L or the ACL of 634 µg/L associated with Release #1.

- Toluene was not detected in any of the groundwater samples.

- Ethylbenzene was detected in 1 of 13 groundwater samples at a concentration of 17.3 µg/L. The concentration did not exceed the IWQS of 28,718 µg/L.

- Total xylenes were detected in 1 of 13 groundwater samples at a concentration of 42.7 µg/L. There is no ACL or IWQS for total xylenes; however, the concentration did not exceed the MCL of 10,000 µg/L.

- 2-Methylnaphthalene was detected in 4 of 13 groundwater samples at concentrations ranging from 0.6J to 8.4 µg/L. There is no ACL or IWQS for 2-methylnaphthalene.

- Acenaphthene was detected in 2 of 13 groundwater samples at concentrations of 1.6 and 2.8 µg/L. There is no ACL or IWQS for acenaphthene.

- Fluorene was detected in 2 of 13 groundwater samples at concentrations of 2.6 and 5.7 µg/L. The concentrations did not exceed the IWQS of 14,000 µg/L.

- Naphthalene was detected in 4 of 13 groundwater samples at concentrations ranging from 0.49J to 17.3 µg/L. There is no IWQS for naphthalene; however, the concentrations did not exceed the ACL of 820 µg/L associated with Release #1.

- Phenanthrene was detected in 2 of 13 groundwater samples at concentrations of 0.57J and 5.28 µg/L. There is no ACL or IWQS for phenanthrene.

None of the constituents exceeded its respective IWQS or ACLs calculated for Release #1. Since none of the constituents associated with Release #2 exceed their respective IWQS, the development of ACLs for Release #2 is not necessary. Figure 4 shows the trend in benzene concentrations in groundwater for the wells in the monitoring only program for Release #2.

During the fourth semiannual sampling event in January 2005, which is associated with Release #2, monitoring wells BF-MW-E1, BF-MW-E2, BF-MW-E3, BF-MW-E4, BF-MW-E5, BF-MW-E6, BF-MW-04, BF-MW-25, BF-MW-26, BF-MW-27, BF-MW-35, BF-MW-36, and BF-MW-37 were sampled for BTEX using EPA Method 8021B/8260B and PAHs using EPA Method 8270C. Analytical results from the sampling event are summarized below.

- Benzene was not detected in any of the groundwater samples.

- Toluene was detected in 2 of 13 groundwater samples at concentrations of 0.43J and 0.47J μg/L. The concentrations did not exceed the IWQS of 200,000 μg/L.

- Ethylbenzene was detected in 1 of 13 groundwater samples at a concentration of 10.4 μg/L. The concentration did not exceed the IWQS of 28,718 μg/L.

- Total xylenes were detected in 2 of 13 groundwater samples at concentration of 0.9J and 34.9 μg/L. There is no ACL or IWQS for total xylenes; however, the concentration did not exceed the MCL of 10,000 μg/L.

- 2-Methylnaphthalene was detected in 3 of 13 groundwater samples at concentrations ranging from 1.4 and 43.2 μg/L. There is no ACL or IWQS for 2-methylnaphthalene.

- Acenaphthene was detected in 2 of 13 groundwater samples at concentrations of 1.6 and 5.4 μg/L. There is no ACL or IWQS for acenaphthene.

- Fluorene was detected in 2 of 13 groundwater samples at concentrations of 3.1 and 10.3 μg/L. The concentrations did not exceed the IWQS of 14,000 μg/L.

- Naphthalene was detected in 3 of 12 groundwater samples at concentrations ranging from 0.31J to 32.9 μg/L. There is no IWQS for naphthalene; however, the concentrations did not exceed the ACL of 820 μg/L associated with Release #1.

- Phenanthrene was detected in 2 of 12 groundwater samples at concentrations of 1.2 and 10.7 μg/L. There is no ACL or IWQS for phenanthrene.

- Pyrene was detected in 1 of 13 groundwater samples at a concentration of 2.4 μg/L. The concentration did not exceed the IWQS of 11,000 μg/L.

None of the constituents exceeded its respective IWQS or ACLs calculated for Release #1. Since none of the constituents associated with Release #2 exceed their respective IWQS, the development of ACLs for Release #2 is not necessary. Figure 4 shows the trend in benzene concentrations in groundwater for the wells in the monitoring only program for Release #2.

IV. SITE RANKING (Note: Re-rank site after each monitoring event.)

(Appendix IV: Site Ranking Form)

Environmental Site Sensitivity Score:
(April 1999 version of the Site Ranking Form was used for all scores.)

Release #1
3,250 (CAP–Part B Report)
3,250 (July 2002 – First semiannual sampling event)
3,250 (Jan. 2003 – Second semiannual sampling event)
Release #2
65,250 (July 2004 – Third semiannual sampling event)
12,750 (Jan. 2005 – Fourth semiannual sampling event)

V. CONCLUSIONS/RECOMMENDATIONS

Provide justification of no-further-action-required recommendation or briefly discuss future monitoring plans for this site.

The Monitoring Only Plan for the plume in the vicinity of BF-MW-21 (i.e., Release #1) was conducted in accordance with Section III.D of the CAP–Part B Report (SAIC 2001). Termination conditions in the CAP–Part B Report were achieved and GA EPD granted no further action for Release #1 in correspondence dated October 6, 2003 (Lewis 2003).

The Monitoring Only Plan for the plume in the vicinity of BF-MW-E5 (i.e., Release #2) is being conducted in accordance with the technical approach provided in the First Annual Monitoring Only Report (SAIC 2003). Termination for Release #2 will be requested once the measured contaminants remain below their respective IWQS or ACL for 1 year and the free product thickness is less than 1/8-in. The Monitoring Only Plan may be terminated regardless of the site ranking score if the above conditions are met.

During the last year of the monitoring program, a free-product mixture has been pumped from well BF-MW-E5 on a bi-monthly basis. Free product has measured between 0 and 0.1 ft since September 20, 2004. Because BTEX and PAH concentrations associated with Release #2 have not exceeded their respective IWQS and ACLs since the CAP–Part B Investigation (Release #2) – 2000, it is recommended that semiannual groundwater sampling of the site be discontinued. Due to the presence of a sporadic sheen, the pumping of well BF-MW-05 will be continued on a bi-monthly basis for 1 year, with product levels measured prior to each pumping event. The results of the free product removal and final confirmatory sampling will be documented in the Third Annual Monitoring Report, which will be submitted to GA EPD in May 2006.

VI. REIMBURSEMENT

Attached _____ N/A X

(Appendix V: Reimbursement Application)

Fort Stewart is a federally owned facility and has funded the investigation for the former UST 117 site, Facility ID #9-025113*2, using U. S. Department of Defense Environmental Restoration Account Funds. Application for Georgia UST Trust Fund reimbursement is not being pursued at this time.

APPENDIX I

REPORT FIGURES

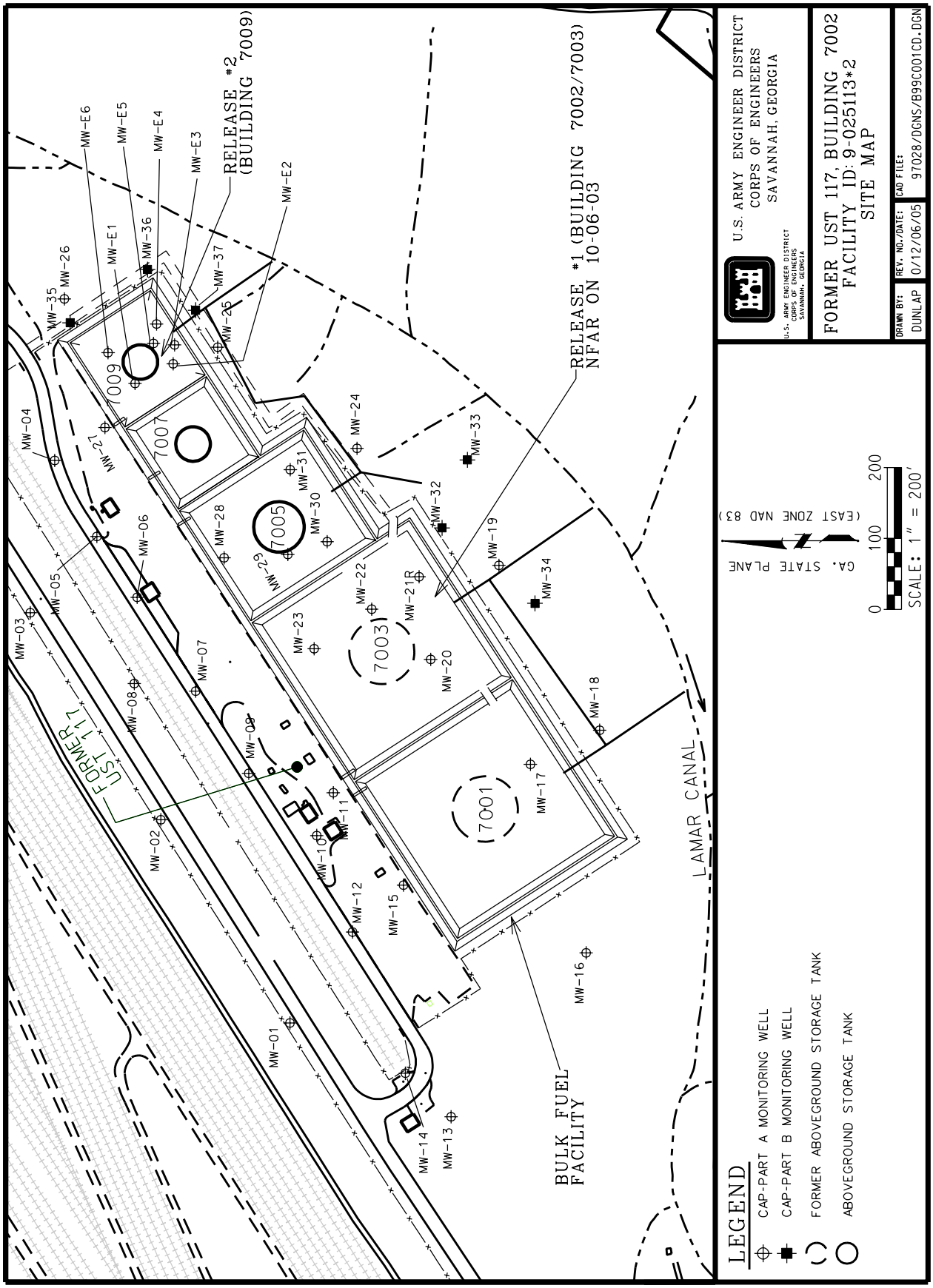

Figure 1. Location Map of the Former UST 117 (Bulk Fuel Facility), Hunter Army Airfield, Georgia

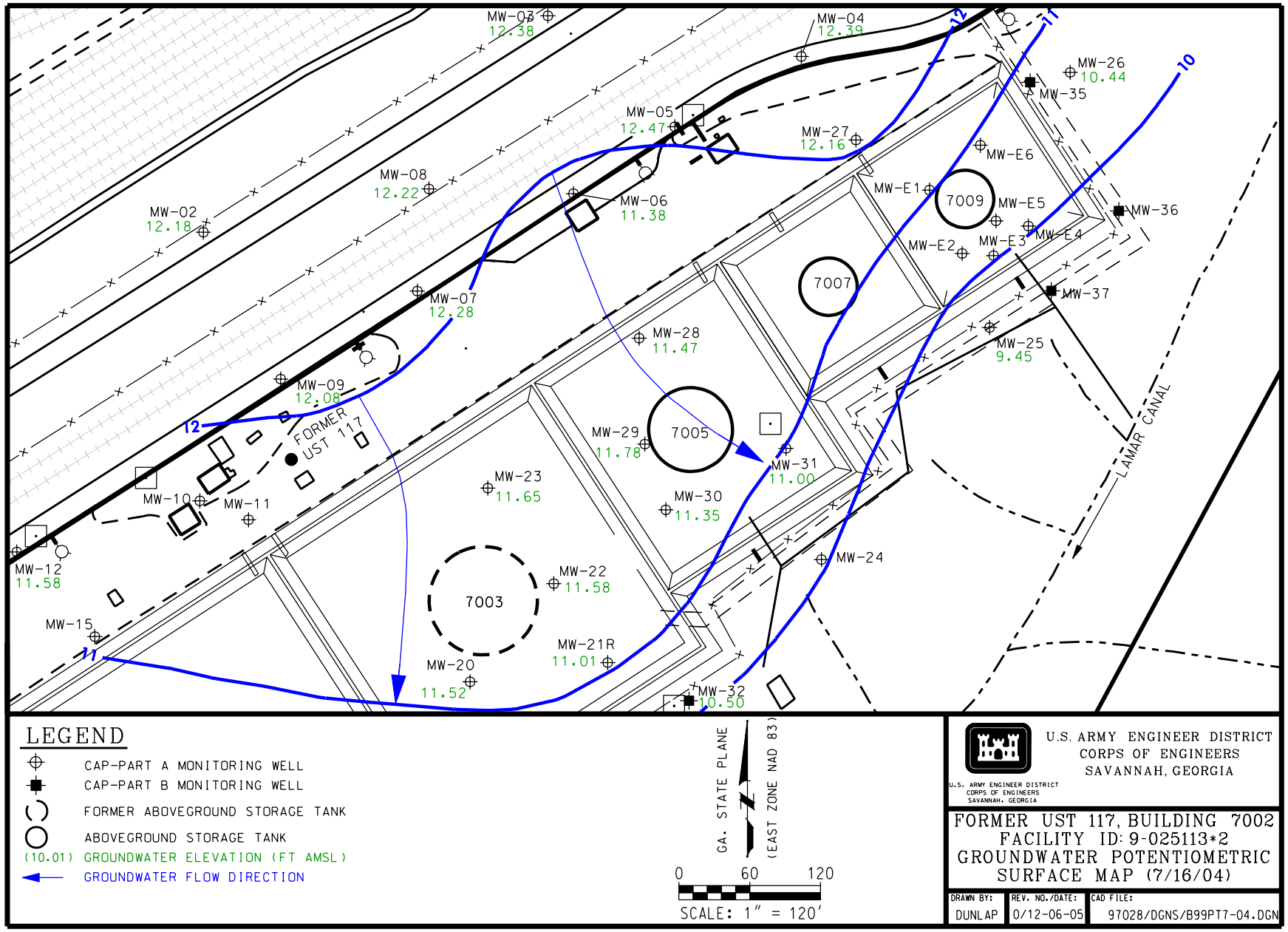

Figure 2a. Potentiometric Surface Map of the Former UST 117 Site (July 2004)

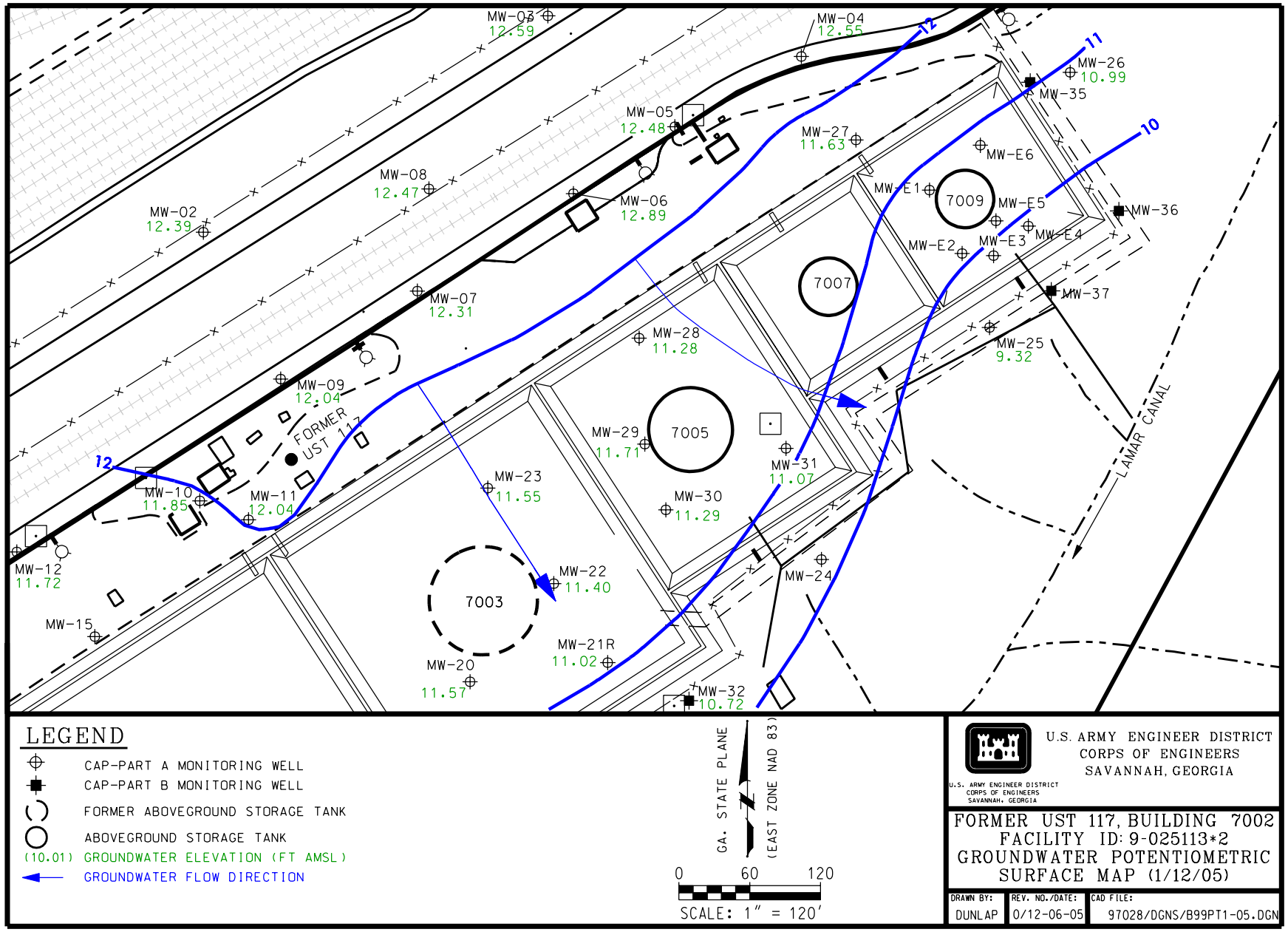

Figure 2b. Potentiometric Surface Map of the Former UST 117 Site (January 2005)

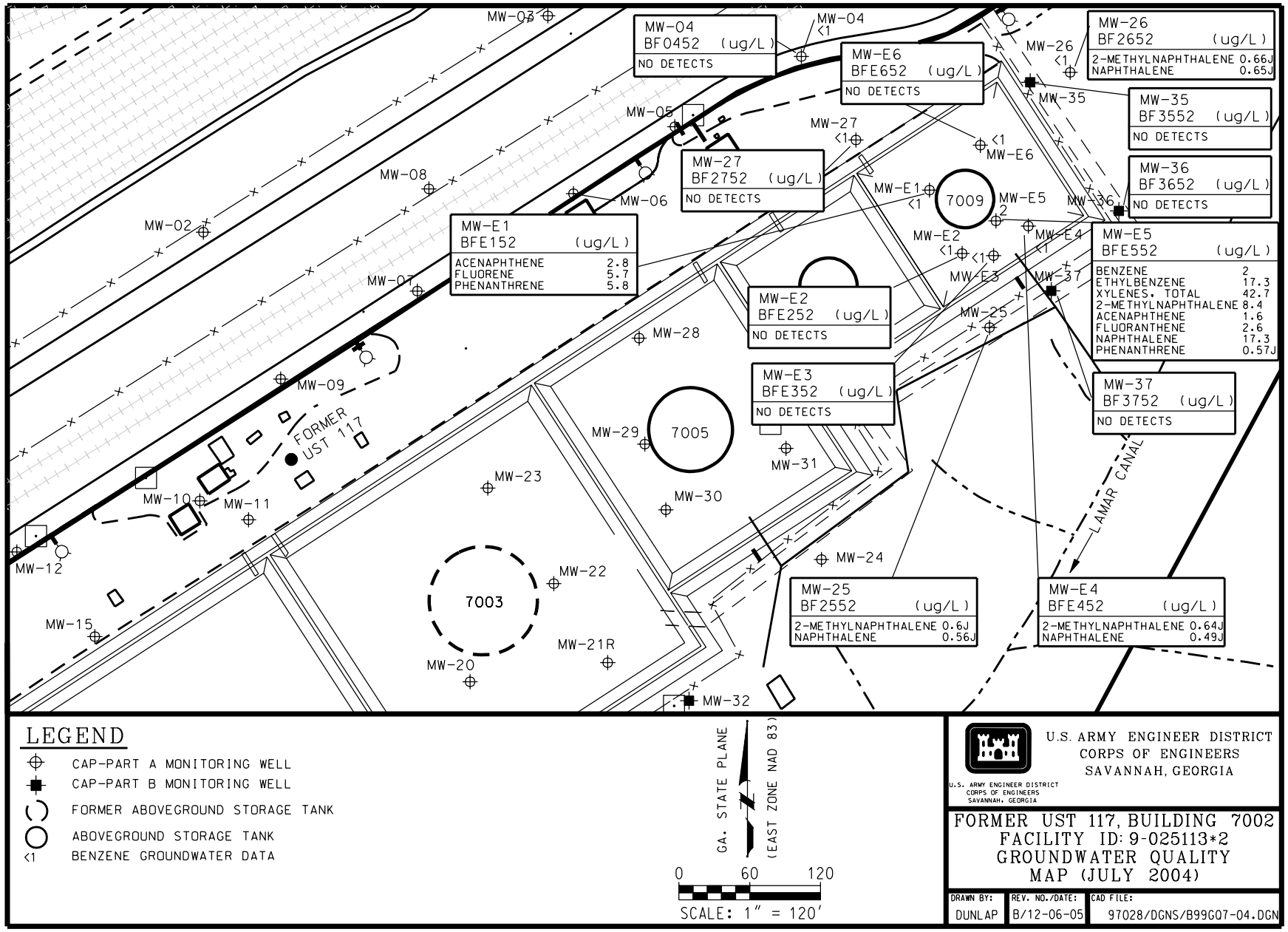

Figure 3a. Groundwater Quality Map of the Former UST 117 Site, Release #2 (July 2004)

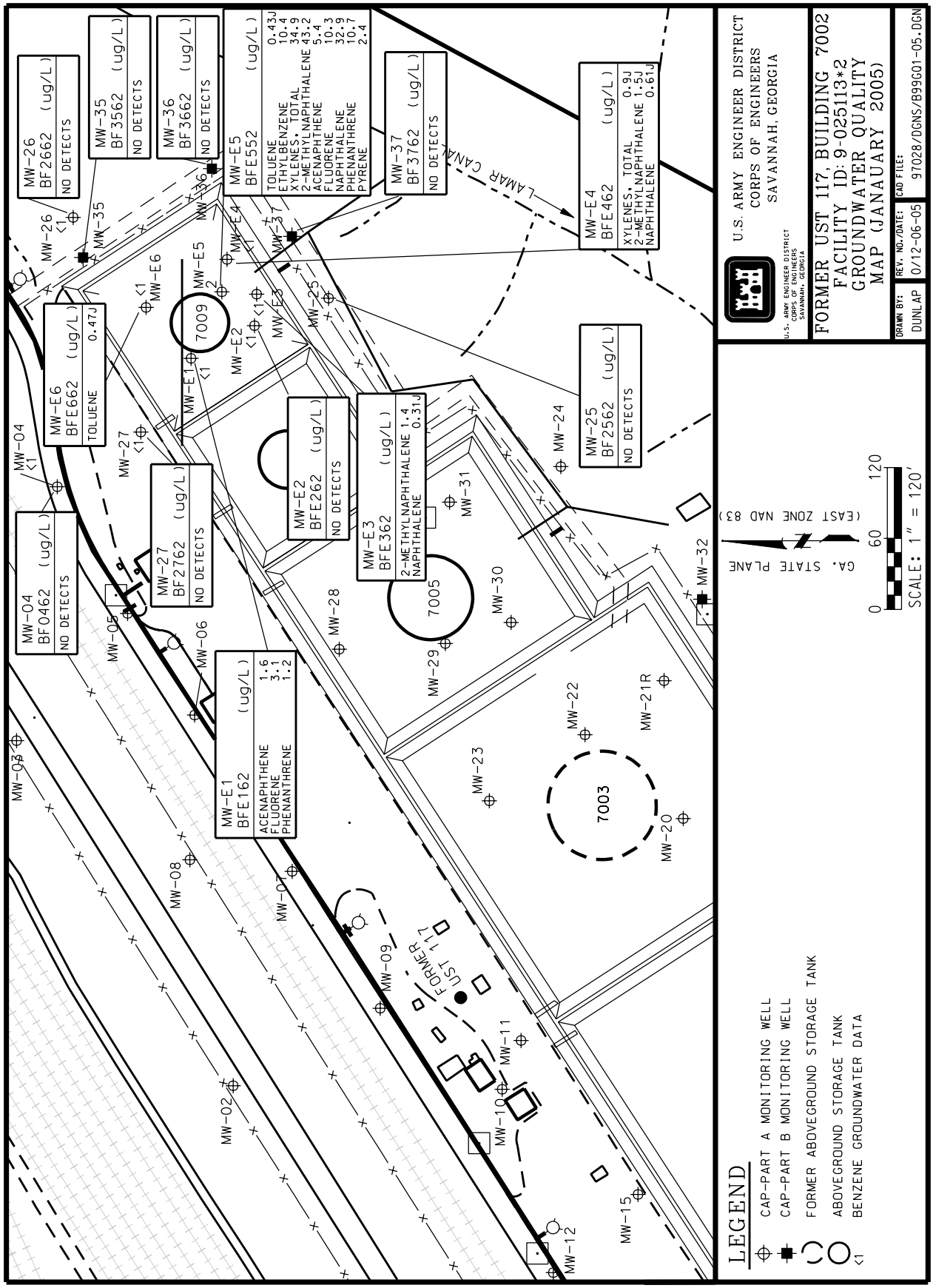

Figure 3b. Groundwater Quality Map of the Former UST 117 Site, Release #2 (January 2005)

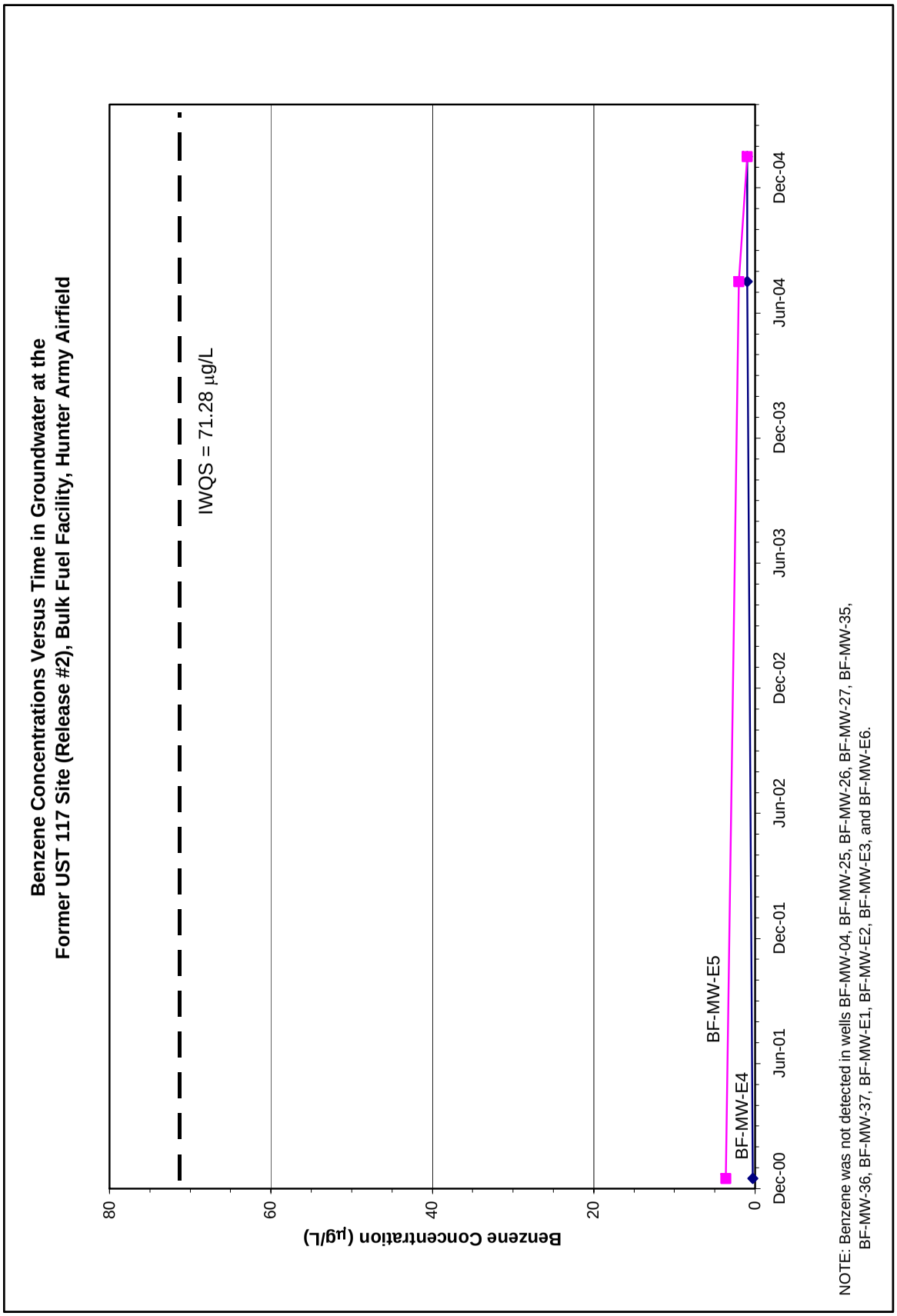

Figure 4. Trend of Benzene Concentrations for the Former UST 117 Site

APPENDIX II

REPORT TABLES

Table 1. Groundwater Elevations

Well Number	Date Measured	Top of Casing Elevation (ft AMSL)	Depth of Screened Interval (ft BGS)	Depth to Free Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Corrected Groundwater Elevation[a] (ft AMSL)
First Semiannual Monitoring Event – July 2002							
BF-MW-01	07/11/02	15.47	3.5 – 12.5	—	4.04	0	11.43
BF-MW-02	07/11/02	16.24	3.5 – 13.0	—	3.88	0	12.36
BF-MW-03	07/11/02	16.39	3.6 – 13.1	—	3.88	0	12.51
BF-MW-04	07/11/02	17.11	2.8 – 12.3	—	4.63	0	12.48
BF-MW-05	07/11/02	16.99	2.9 – 12.4	—	4.40	0	12.59
BF-MW-06	07/11/02	16.80	2.7 – 12.2	—	4.26	0	12.54
BF-MW-07	07/11/02	16.74	2.9 – 12.4	—	4.44	0	12.30
BF-MW-08	07/11/02	16.40	2.3 – 11.8	—	4.00	0	12.40
BF-MW-09	07/11/02	16.60	2.9 – 12.4	—	4.62	0	11.98
BF-MW-10	07/11/02	15.33	2.3 – 11.8	—	3.56	0	11.77
BF-MW-11	07/11/02	15.42	2.3 – 11.8	—	3.52	0	11.90
BF-MW-12	07/11/02	16.35	3.0 – 12.5	—	4.79	0	11.56
BF-MW-13	07/11/02	13.72	2.3 – 11.8	—	4.84	0	8.88
BF-MW-14	07/11/02	15.26	28 – 12.3	—	5.04	0	10.22
BF-MW-15	07/11/02	15.01	2.5 – 12.0	—	3.56	0	11.45
BF-MW-16	07/11/02	12.61	2.7 – 12.2	—	4.74	0	7.87
BF-MW-17	07/11/02	13.15	3.0 – 12.5	—	3.08	0	10.07
BF-MW-18	07/11/02	12.99	3.4 – 12.9	—	3.80	0	9.19
BF-MW-19	07/11/02	13.88	2.0 – 11.5	—	3.61	0	10.27
BF-MW-20	07/11/02	14.79	2.2 – 11.7	—	3.38	0	11.41
BF-MW-21R	07/11/02	14.57	4.8 – 14.8	—	3.55	0	11.02
BF-MW-22	07/11/02	14.60	2.4 – 11.9	—	3.19	0	11.41
BF-MW-23	07/11/02	14.74	2.7 – 12.2	—	3.13	0	11.61
BF-MW-25	07/11/02	13.60	3.6 – 13.1	—	3.90	0	9.70
BF-MW-27	07/11/02	14.90	2.5 – 12.0	—	2.72	0	12.18
BF-MW-28	07/11/02	15.49	2.0 – 11.5	—	4.07	0	11.42
BF-MW-29	07/11/02	14.49	2.0 – 11.5	—	2.82	0	11.67
BF-MW-30	07/11/02	14.19	1.9 – 11.4	—	2.85	0	11.34
BF-MW-31	07/11/02	14.46	1.5 – 11.0	—	3.53	0	10.93
BF-MW-32	07/11/02	15.74	1.4 – 11.2	—	5.12	0	10.62
BF-MW-33	07/11/02	13.95	1.6 – 11.4	—	4.75	0	9.20
BF-MW-34	07/11/02	14.87	3.1 – 13.1	—	5.24	0	9.63
BF-MW-E1	07/11/02	14.00	4.6 – 14.6	—	3.77	0	10.23
BF-MW-E2	07/11/02	13.76	3.94 – 13.94	—	3.91	0	9.85
BF-MW-E3	07/11/02	13.99	4.4 – 14.4	—	4.31	0	9.68

NOTES:
[a] Corrected groundwater elevation based on a product density of 880 kg/m^3.
AMSL Above mean sea level.
BGS Below ground surface.
BTOC Below top of casing.

Table 1. Groundwater Elevations (continued)

Well Number	Date Measured	Top of Casing Elevation (ft AMSL)	Depth of Screened Interval (ft BGS)	Depth to Free Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Corrected Groundwater Elevation[a] (ft AMSL)
BF-MW-E4	07/11/02	13.88	4.6 – 14.6	—	4.42	0	9.46
BF-MW-E5	07/11/02	14.00	4.8 – 14.8	4.34	4.41	0.07	9.65[a]
BF-MW-E6	07/11/02	13.76	3.7 – 13.7	—	3.69	0	10.07
Second Semiannual Monitoring Event – January 2003							
BF-MW-01	01/27/03	15.47	3.5 – 12.5		3.71	0	11.76
BF-MW-03	01/27/03	16.39	3.6 – 13.1	—	3.79	0	12.60
BF-MW-09	01/27/03	16.60	2.9 – 12.4	—	4.29	0	12.31
BF-MW-12	01/27/03	16.35	3.0 – 12.5	—	4.39	0	11.96
BF-MW-17	01/27/03	13.15	3.0 – 12.5	—	2.47	0	10.68
BF-MW-18	01/27/03	12.99	3.4 – 12.9	—	3.32	0	9.67
BF-MW-19	01/27/03	13.88	2.0 – 11.5	—	3.38	0	10.50
BF-MW-20	01/27/03	14.79	2.2 – 11.7	—	3.08	0	11.71
BF-MW-21R	01/27/03	14.57	4.8 – 14.8	—	3.45	0	11.12
BF-MW-22	01/27/03	14.60	2.4 – 11.9	—	3.05	0	11.55
BF-MW-23	01/27/03	14.74	2.7 – 12.2	—	3.12	0	11.62
BF-MW-25	01/27/03	13.60	3.6 – 13.1	—	3.72	0	9.88
BF-MW-26	01/27/03	13.62	2.4 – 11.9	—	2.01	0	11.61
BF-MW-28	01/27/03	15.49	2.0 – 11.5	—	4.02	0	11.47
BF-MW-32	01/27/03	15.74	1.4 – 11.2	—	4.88	0	10.86
BF-MW-33	01/27/03	13.95	1.6 – 11.4	—	4.54	0	9.41
BF-MW-E1	01/27/03	14.00	4.6 – 14.6	—	3.99	0	10.01
BF-MW-E2	01/27/03	13.76	3.94 – 13.94	—	4.02	0	9.74
BF-MW-E3	01/27/03	13.99	4.4 – 14.4	—	4.38	0	9.61
BF-MW-E4	01/27/03	13.88	4.6 – 14.6	—	4.22	0	9.66
BF-MW-E5	01/27/03	14.00	4.8 – 14.8	4.44	4.54	0.1	9.55[a]
BF-MW-E6	01/27/03	13.76	3.7 – 13.7	—	3.87	0	9.89
Third Semiannual Monitoring Event – July 2004							
BF-MW-01	07/16/04	15.47	3.5 – 12.5	—	4.42	0	11.05
BF-MW-02	07/16/04	16.24	3.5 – 13.0	—	4.06	0	12.18
BF-MW-03	07/16/04	16.39	3.6 – 13.1	—	4.01	0	12.38
BF-MW-04	07/16/04	17.11	2.8 – 12.3	—	4.72	0	12.39
BF-MW-05	07/16/04	16.99	2.9 – 12.4	—	4.52	0	12.47
BF-MW-06	07/16/04	16.80	2.7 – 12.2	—	5.42	0	11.38
BF-MW-07	07/16/04	16.74	2.9 – 12.4	—	4.46	0	12.28
BF-MW-08	07/16/04	16.40	2.3 – 11.8	—	4.18	0	12.22
BF-MW-09	07/16/04	16.60	2.9 – 12.4	—	4.52	0	12.08

NOTES:
[a] Corrected groundwater elevation based on a product density of 880 kg/m^3.
AMSL Above mean sea level.
BGS Below ground surface.
BTOC Below top of casing.

Table 1. Groundwater Elevations (continued)

Well Number	Date Measured	Top of Casing Elevation (ft AMSL)	Depth of Screened Interval (ft BGS)	Depth to Free Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Corrected Groundwater Elevation[a] (ft AMSL)
BF-MW-10	07/16/04	15.33	2.3 – 11.8	—	3.53	0	11.80
BF-MW-11	07/16/04	15.42	2.3 – 11.8	—	3.32	0	12.10
BF-MW-12	07/16/04	16.35	3.0 – 12.5	—	4.77	0	11.58
BF-MW-13	07/16/04	13.72	2.3 – 11.8	—	5.00	0	8.72
BF-MW-14	07/16/04	15.26	28 – 12.3	—	5.14	0	10.12
BF-MW-15	07/16/04	15.01	2.5 – 12.0	NM	NM	NM	NM
BF-MW-16	07/16/04	12.61	2.7 – 12.2	NM	NM	NM	NM
BF-MW-17	07/16/04	13.15	3.0 – 12.5	—	3.14	0	10.01
BF-MW-18	07/16/04	12.99	3.4 – 12.9	—	4.02	0	8.97
BF-MW-19	07/16/04	13.88	2.0 – 11.5	—	3.98	0	9.90
BF-MW-20	07/16/04	14.79	2.2 – 11.7	—	3.27	0	11.52
BF-MW-21R	07/16/04	14.57	4.8 – 14.8	—	3.56	0	11.01
BF-MW-22	07/16/04	14.60	2.4 – 11.9	—	3.02	0	11.58
BF-MW-23	07/16/04	14.74	2.7 – 12.2	—	3.09	0	11.65
BF-MW-25	07/16/04	13.60	3.6 – 13.1	NM	NM	NM	NM
BF-MW-27	07/16/04	14.90	2.5 – 12.0	—	2.74	0	12.16
BF-MW-28	07/16/04	15.49	2.0 – 11.5	—	4.02	0	11.47
BF-MW-29	07/16/04	14.49	2.0 – 11.5	—	2.71	0	11.78
BF-MW-30	07/16/04	14.19	1.9 – 11.4	—	2.84	0	11.35
BF-MW-31	07/16/04	14.46	1.5 – 11.0	—	3.46	0	11.00
BF-MW-32	07/16/04	15.74	1.4 – 11.2	—	5.24	0	10.50
BF-MW-33	07/16/04	13.95	1.6 – 11.4	—	4.88	0	9.07
BF-MW-34	07/16/04	14.87	3.1 – 13.1	—	4.92	0	9.95
BF-MW-35	07/16/04	14.94	2.4 – 12.4	—	3.91	0	11.03
BF-MW-36	07/16/04	15.16	2.6 – 12.6	—	5.90	0	9.26
BF-MW-37	07/16/04	16.07	2.3 – 12.3	—	5.07	0	11.00
BF-MW-E1	07/16/04	14.00	4.6 – 14.6	—	3.92	0	10.08
BF-MW-E2	07/16/04	13.76	3.94 – 13.94	—	4.64	0	9.12
BF-MW-E3	07/16/04	13.99	4.4 – 14.4	—	4.64	0	9.35
BF-MW-E4	07/16/04	13.88	4.6 – 14.6	—	4.80	0	9.08
BF-MW-E5	07/16/04	14.00	4.8 – 14.8	4.48	5.71	1.23	9.37[a]
BF-MW-E6	07/16/04	13.76	3.7 – 13.7	—	3.87	0	9.89
Fourth Semiannual Monitoring Event – January 2005							
BF-MW-01	01/12/05	15.47	3.5 – 12.5	—	3.90	0	11.57
BF-MW-02	01/12/05	16.24	3.5 – 13.0	—	3.85	0	12.39
BF-MW-03	01/12/05	16.39	3.6 – 13.1	—	3.80	0	12.59
BF-MW-04	01/12/05	17.11	2.8 – 12.3	—	4.56	0	12.55
BF-MW-05	01/12/05	16.99	2.9 – 12.4	—	4.51	0	12.48
BF-MW-06	01/12/05	16.80	2.7 – 12.2	—	3.91	0	12.89

NOTES:

[a] Corrected groundwater elevation based on a product density of 880 kg/m^3.

AMSL Above mean sea level.
BGS Below ground surface.
BTOC Below top of casing.
NM Not measured.

Table 1. Groundwater Elevations (continued)

Well Number	Date Measured	Top of Casing Elevation (ft AMSL)	Depth of Screened Interval (ft BGS)	Depth to Free Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Corrected Groundwater Elevation[a] (ft AMSL)
BF-MW-07	01/12/05	16.74	2.9 – 12.4	—	4.43	0	12.31
BF-MW-08	01/12/05	16.40	2.3 – 11.8	—	3.93	0	12.47
BF-MW-09	01/12/05	16.60	2.9 – 12.4	—	4.56	0	12.04
BF-MW-10	01/12/05	15.33	2.3 – 11.8	—	3.48	0	11.85
BF-MW-11	01/12/05	15.42	2.3 – 11.8	—	3.38	0	12.04
BF-MW-12	01/12/05	16.35	3.0 – 12.5	—	4.63	0	11.72
BF-MW-13	01/12/05	13.72	2.3 – 11.8	—	3.49	0	10.23
BF-MW-14	01/12/05	15.26	28 – 12.3	—	4.41	0	10.85
BF-MW-15	01/12/05	15.01	2.5 – 12.0	NM	NM	NM	NM
BF-MW-16	01/12/05	12.61	2.7 – 12.2	NM	NM	NM	NM
BF-MW-17	01/12/05	13.15	3.0 – 12.5	—	3.07	0	10.08
BF-MW-18	01/12/05	12.99	3.4 – 12.9	—	3.83	0	9.16
BF-MW-19	01/12/05	13.88	2.0 – 11.5	—	3.85	0	10.03
BF-MW-20	01/12/05	14.79	2.2 – 11.7	—	3.22	0	11.57
BF-MW-21R	01/12/05	14.57	4.8 – 14.8	—	3.55	0	11.02
BF-MW-22	01/12/05	14.60	2.4 – 11.9	—	3.20	0	11.40
BF-MW-23	01/12/05	14.74	2.7 – 12.2	—	3.19	0	11.55
BF-MW-25	01/12/05	13.60	3.6 – 13.1	—	4.28	0	9.32
BF-MW-27	01/12/05	14.90	2.5 – 12.0	—	3.27	0	11.63
BF-MW-28	01/12/05	15.49	2.0 – 11.5	—	4.21	0	11.28
BF-MW-29	01/12/05	14.49	2.0 – 11.5	—	2.78	0	11.71
BF-MW-30	01/12/05	14.19	1.9 – 11.4	—	2.90	0	11.29
BF-MW-31	01/12/05	14.46	1.5 – 11.0	—	3.39	0	11.07
BF-MW-32	01/12/05	15.74	1.4 – 11.2	—	5.02	0	10.72
BF-MW-33	01/12/05	13.95	1.6 – 11.4	NM	NM	NM	NM
BF-MW-34	01/12/05	14.87	3.1 – 13.1	—	4.95	0	9.92
BF-MW-35	01/12/05	14.94	2.4 – 12.4	—	3.76	0	11.18
BF-MW-36	01/12/05	15.16	2.6 – 12.6	—	5.69	0	9.47
BF-MW-37	01/12/05	16.07	2.3 – 12.3		4.87	0	11.20
BF-MW-E1	01/12/05	14.00	4.6 – 14.6		4.09	0	9.91
BF-MW-E2	01/12/05	13.76	3.94 – 13.94	—	4.28	0	9.48
BF-MW-E3	01/12/05	13.99	4.4 – 14.4	—	4.72	0	9.27
BF-MW-E4	01/12/05	13.88	4.6 – 14.6	—	5.18	0	8.70
BF-MW-E5	01/12/05	14.00	4.8 – 14.8	sheen	4.90	sheen	9.10
BF-MW-E6	01/12/05	13.76	3.7 – 13.7	—	3.99	0	9.77

NOTES:

[a] Corrected groundwater elevation based on a product density of 880 kg/m^3.

AMSL Above mean sea level.
BGS Below ground surface.
BTOC Below top of casing.
NM Not measured.

Table 2a. Groundwater Analytical Results (Volatile Organic Compounds)

Sample Location	Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)
Corrective Action Plan–Part B Investigation (Release #1) – 2000							
BF-MW-19	BF1922	12/02/00	1 U	1 U	1 U	3 U	ND
BF-MW-20	BF2022	12/03/00	3.1 =	1 U	2.1 =	7.3 =	12.5
BF-MW-21	BF2122	12/02/00	**251 =**	1.3 =	17.4 =	734 =	1,003.7
BF-MW-22	BF2222	12/02/00	**174 =**	5.7 =	128 =	662 =	969.7
BF-MW-32	BF3222	12/01/00	**109 J**	0.65 J	1.1 =	115 =	225.75
BF-MW-33	BF3322	12/01/00	1 =	1 U	1 U	3 U	1
BF-MW-34	BF3422	12/01/00	1 U	1 U	1 U	0.36 J	0.36
First Semiannual Sampling Event (Release #1) – July 2002							
BF-MW-19	BF1932	07/11/02	1 U	1 U	1 U	3 U	ND
BF-MW-20	BF2032	07/11/02	2.5 =	6 =	32.1 =	136 =	176.6
BF-MW-21R	BF2132	07/11/02	**178 =**	1.2 =	11.6 =	356 =	546.8
BF-MW-22	BF2232	07/11/02	45 =	2.5 =	207 =	911 =	1,165.5
BF-MW-32	BF3232	07/11/02	1.7 =	1 U	20.7 =	103 =	125.4
BF-MW-33	BF3332	07/11/02	0.99 J	1 U	1 U	3 U	0.99
BF-MW-34	BF3432	07/11/02	1 U	1 U	1 U	3 U	ND
Second Semiannual Sampling Event (Release #1) – January 2003							
BF-MW-19	BF1942	01/24/03	1 U	1 U	1 U	1 U	ND
BF-MW-20	BF2042	01/24/03	3.6 =	1 U	20.4 =	130 =	154
BF-MW-21R	BF2142	01/24/03	**183 =**	1.2 =	9.9 =	296 =	490
BF-MW-22	BF2242	01/24/03	47 =	1 J	105 =	328 =	481
BF-MW-32	BF3242	01/24/03	1 U	1 U	1 U	1 U	ND
BF-MW-33	BF3342	01/24/03	1.8 =	0.56 J	1 U	1 U	2.36
BF-MW-34	BF3442	01/24/03	1 U	1 U	1 U	1 U	ND
In-Stream Water Quality Standards (Georgia Rule 391-3-6)			71.28	200,000	28,718	NRC	NRC
Alternate Concentration Limits			634	—	—	—	—

NOTES:
Bold values exceed In-Stream Water Quality Standards.
BTEX Benzene, toluene, ethylbenzene, and xylenes.
ND Not detected.
NRC No regulatory criteria.

Data Qualifiers
J Indicates that the value for the compound is an estimated value.
U Indicates that the compound was not detected above the reported sample quantitation limit.
= Indicates that the compound was detected at the concentration reported.

Table 2a. Groundwater Analytical Results (Volatile Organic Compounds) (continued)

Sample Location	Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)
CAP–Part B Investigation (Release #2) – 2000							
BF-MW-04	BF0422	12/02/00	1 U	1 U	1 U	3 U	ND
BF-MW-25	BF2522	12/02/00	1 U	1 U	1 U	3 U	ND
BF-MW-26	BF2622	12/02/00	1 U	1 U	1 U	3 U	ND
BF-MW-27	BF2722	12/03/00	1 U	1 U	1 U	3 U	ND
BF-MW-E1	BFE122	12/01/00	1 U	1 U	0.99 J	0.45 J	1.44
BF-MW-E2	BFE222	12/02/00	1 U	0.3 J	1 U	3 U	0.3
BF-MW-E3	BFE322	12/02/00	1 U	0.48 J	1 U	0.3 J	0.78
BF-MW-E4	BFE422	12/02/00	0.29 J	0.27 J	0.28 J	0.36 J	1.2
BF-MW-E5	BFE522	12/02/00	3.6 =	1 =	17.2 =	19 =	40.8
BF-MW-E6	BFE622	12/01/00	1 U	1 U	1 U	3 U	ND
Third Semiannual Sampling Event (Release #2) – July 2004							
BF-MW-04	BF0452	07/16/04	1 U	1 U	1 U	1 U	ND
BF-MW-25	BF2552	07/16/04	1 U	1 U	1 U	1 U	ND
BF-MW-26	BF2652	07/16/04	1 U	1 U	1 U	1 U	ND
BF-MW-27	BF2752	07/16/04	1 U	1 U	1 U	1 U	ND
BF-MW-35	BF3552	07/17/04	1 U	1 U	1 U	1 U	ND
BF-MW-36	BF3652	07/17/04	1 U	1 U	1 U	1 U	ND
BF-MW-37	BF3752	07/17/04	1 U	1 U	1 U	1 U	ND
BF-MW-E1	BFE152	07/16/04	1 U	1 U	1 U	1 U	ND
BF-MW-E2	BFE252	07/16/04	1 U	1 U	1 U	1 U	ND
BF-MW-E3	BFE352	07/16/04	1 U	1 U	1 U	1 U	ND
BF-MW-E4	BFE452	07/16/04	1 U	1 U	1 U	1 U	ND
BF-MW-E5	BFE552	07/16/04	2 =	1 U	17.3 =	42.7 =	62.0
BF-MW-E6	BFE652	07/16/04	1 U	1 U	1 U	1 U	ND
In-Stream Water Quality Standards (Georgia Rule 391-3-6)			71.28	200,000	28,718	NRC	NRC
Alternate Concentration Limits			634	—	—	—	—

NOTES:

BTEX Benzene, toluene, ethylbenzene, and xylenes.
ND Not detected.
NRC No regulatory criteria.

Data Qualifiers

J Indicates that the value for the compound is an estimated value.
U Indicates that the compound was not detected above the reported sample quantitation limit.
= Indicates that the compound was detected at the concentration reported.

Table 2a. Groundwater Analytical Results (Volatile Organic Compounds) (continued)

Sample Location	Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)
Fourth Semiannual Sampling Event (Release #2) – January 2005							
BF-MW-04	BF0462	01/12/05	1 U	1 U	1 U	1 U	ND
BF-MW-25	BF2562	01/12/05	1 U	1 U	1 U	1 U	ND
BF-MW-26	BF2662	01/13/05	1 U	1 U	1 U	1 U	ND
BF-MW-27	BF2762	01/13/05	1 U	1 U	1 U	1 U	ND
BF-MW-35	BF3562	01/14/05	1 U	1 U	1 U	1 U	ND
BF-MW-36	BF3662	01/14/05	1 U	1 U	1 U	1 U	ND
BF-MW-37	BF3762	01/14/05	1 U	1 U	1 U	1 U	ND
BF-MW-E1	BFE162	01/13/05	1 U	1 U	1 U	1 U	ND
BF-MW-E2	BFE262	01/13/05	1 U	1 U	1 U	1 U	ND
BF-MW-E3	BFE362	01/13/05	1 U	1 U	1 U	1 U	ND
BF-MW-E4	BFE462	01/13/05	1 U	1 U	1 U	0.9 J	0.9
BF-MW-E5	BFE562	01/13/05	1 U	0.43 J	10.4 =	34.9 =	45.73
BF-MW-E6	BFE662	01/13/05	1 U	0.47 J	1 U	1 U	ND
In-Stream Water Quality Standards (Georgia Rule 391-3-6)			71.28	200,000	28,718	NRC	NRC
Alternate Concentration Limits			634	—	—	—	—

NOTES:

BTEX Benzene, toluene, ethylbenzene, and xylenes.
ND Not detected.
NRC No regulatory criteria.

Data Qualifiers

J Indicates that the value for the compound is an estimated value.
U Indicates that the compound was not detected above the reported sample quantitation limit.
= Indicates that the compound was detected at the concentration reported.

Table 2b. Groundwater Analytical Results (Polynuclear Aromatic Compounds)

Sample Location	Sample ID	Date Sampled	Detected Compounds				
			2-Methylnaphthalene (µg/L)	2-Choronaphthalene (µg/L)	Acenaphthylene (µg/L)	Fluorene (µg/L)	Naphthalene (µg/L)
Corrective Action Plan–Part B Investigation (Release #1) – 2000							
BF-MW-19	BF1922	12/02/00	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
BF-MW-20	BF2022	12/03/00	0.99 U	0.99 U	0.99 U	0.99 U	7.8 =
BF-MW-21	BF2122	12/02/00	1 U	1 U	1 U	1 U	22 =
BF-MW-22	BF2222	12/02/00	19 U	19 U	19 U	19 U	528 =
BF-MW-32	BF3222	12/01/00	1.1 U	1.1 U	1.1 U	1.1 U	2 =
BF-MW-33	BF3322	12/01/00	1 U	1 U	1 U	1 U	1 U
BF-MW-34	BF3422	12/01/00	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U
First Semiannual Sampling Event (Release #1) – July 2002							
BF-MW-19	BF1932	07/11/02	0.98 U	0.98 U	0.98 U	0.98 U	1 =
BF-MW-20	BF2032	07/11/02	11.2 =	0.98 U	0.98 U	0.98 U	19.9 =
BF-MW-21R	BF2132	07/11/02	1.8 =	41.5 =	1.8 =	5.9 =	19 =
BF-MW-22	BF2232	07/11/02	133 =	9.8 U	9.8 U	9.8 U	168 =
BF-MW-32	BF3232	07/11/02	2.2 =	0.98 U	0.98 U	0.98 U	7.1 =
BF-MW-33	BF3332	07/11/02	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
BF-MW-34	BF3432	07/11/02	2.6 =	0.98 U	0.98 U	0.98 U	5.8 =
Second Semiannual Sampling Event (Release #1) – January 2003							
BF-MW-19	BF1942	01/24/03	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
BF-MW-20	BF2042	01/24/03	32 =	0.98 U	0.98 U	0.98 U	40.5 =
BF-MW-21R	BF2142	01/24/03	2.4 =	0.99 U	0.99 U	0.99 U	37.9 =
BF-MW-22	BF2242	01/24/03	42 =	0.99 U	0.99 U	0.99 U	110 =
BF-MW-32	BF3242	01/24/03	0.99 U	0.99 U	0.99 U	0.99 U	0.78 J
BF-MW-33	BF3342	01/24/03	0.98 U	0.98 U	0.98 U	0.98 U	0.22 J
BF-MW-34	BF3442	01/24/03	0.98 U	0.98 U	0.98 U	0.98 U	1.1 =
In-Stream Water Quality Standards (Georgia Rule 391-3-6)			NRC	NRC	NRC	14,000	NRC
Alternate Concentration Limits			—	—	—	—	820

NOTES:
NRC No regulatory criteria.

Data Qualifiers
J Indicates that the value for the compound is an estimated value.
U Indicates that the compound was not detected above the reported sample quantitation limit.
= Indicates that the compound was detected at the concentration reported.

Table 2b. Groundwater Analytical Results (Polynuclear Aromatic Compounds) (continued)

Sample Location	Sample ID	Date Sampled	Detected Compounds				
			2-Methylnaphthalene (µg/L)	Acenaphthene (µg/L)	Fluorene (µg/L)	Naphthalene (µg/L)	Phenanthrene (µg/L)
CAP–Part B Investigation (Release #2) – 2000							
BF-MW-04	BF0422	12/2/00	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U
BF-MW-25	BF2522	12/2/00	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
BF-MW-26	BF2622	12/2/00	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
BF-MW-27	BF2722	12/3/00	1 U	1 U	1 U	1 U	1 U
BF-MW-E1	BFE122	12/1/00	1 U	2.2 =	4 =	9.1 =	1 U
BF-MW-E2	BFE222	12/2/00	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
BF-MW-E3	BFE322	12/2/00	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U
BF-MW-E4	BFE422	12/2/00	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
BF-MW-E5	BFE522	12/2/00	NA	0.55 J	1 =	16.6 =	0.73 J
BF-MW-E6	BFE622	12/1/00	1 U	1 U	1 U	1 U	1 U
Third Semiannual Sampling Event (Release #2) – July 2004							
BF-MW-04	BF0452	7/16/04	1 U	1 U	1 U	1 U	1 U
BF-MW-25	BF2552	7/16/04	0.6 J	0.99 U	0.99 U	0.56 J	0.99 U
BF-MW-26	BF2652	7/16/04	0.66 J	1.1 U	1.1 U	0.65 J	1.1 U
BF-MW-27	BF2752	7/16/04	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U
BF-MW-35	BF3552	7/17/04	1 U	1 U	1 U	1 U	1 U
BF-MW-36	BF3652	7/17/04	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
BF-MW-37	BF3752	7/17/04	1 U	1 U	1 U	1 U	1 U
BF-MW-E1	BFE152	7/16/04	1 U	2.8 =	5.7 =	1 U	5.8 =
BF-MW-E2	BFE252	7/16/04	1 U	1 U	1 U	1 U	1 U
BF-MW-E3	BFE352	7/16/04	1 U	1 U	1 U	1 U	1 U
BF-MW-E4	BFE452	7/16/04	0.64 J	0.97 U	0.97 U	0.49 J	0.97 U
BF-MW-E5	BFE552	7/16/04	8.4 =	1.6 =	2.6 =	17.3 =	0.57 J
BF-MW-E6	BFE652	7/16/04	1 U	1 U	1 U	1 U	1 U
In-Stream Water Quality Standards (Georgia Rule 391-3-6)			NRC	NRC	14,000	NRC	NRC
Alternate Concentration Limits			—	—	—	—	820

NOTES:
NA Not analyzed.
NRC No regulatory criteria.

Data Qualifiers
J Indicates that the value for the compound is an estimated value.
U Indicates that the compound was not detected above the reported sample quantitation limit.
= Indicates that the compound was detected at the concentration reported.

Table 2b. Groundwater Analytical Results (Polynuclear Aromatic Compounds) (continued)

Sample Location	Sample ID	Date Sampled	Detected Compounds					
			2-Methylnaphthalene (µg/L)	Acenaphthene (µg/L)	Fluorene (µg/L)	Naphthalene (µg/L)	Phenanthrene (µg/L)	Pyrene (µg/L)
Fourth Semiannual Sampling Event (Release #2) – January 2005								
BF-MW-04	BF0462	01/12/05	1 U	1 U	1 U	1 U	1 U	1 U
BF-MW-25	BF2562	01/12/05	1 U	1 U	1 U	1 U	1 U	1 U
BF-MW-26	BF2662	01/13/05	1 U	1 U	1 U	1 U	1 U	1 U
BF-MW-27	BF2762	01/13/05	1 U	1 U	1 U	1 U	1 U	1 U
BF-MW-35	BF3562	01/14/05	1 U	1 U	1 U	1 U	1 U	1 U
BF-MW-36	BF3662	01/14/05	1 U	1 U	1 U	1 U	1 U	1 U
BF-MW-37	BF3762	01/14/05	1 U	1 U	1 U	1 U	1 U	1 U
BF-MW-E1	BFE162	01/13/05	1 U	1.6 =	3.1 =	1 U	1.2 =	1 U
BF-MW-E2	BFE262	01/13/05	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U
BF-MW-E3	BFE362	01/13/05	1.4 =	1 U	1 U	0.31 J	1 U	1 U
BF-MW-E4	BFE462	01/13/05	1.5 J	1 U	1 U	0.61 J	1 U	1 U
BF-MW-E5	BFE562	01/13/05	43.2 =	5.4 =	10.3 =	32.9 =	10.7 =	2.4 =
BF-MW-E6	BFE662	01/13/05	1 U	1 U	1 U	1 U	1 U	1 U
In-Stream Water Quality Standards (Georgia Rule 391-3-6)			NRC	NRC	14,000	NRC	NRC	11,000
Alternate Concentration Limits			—	—	—	—	820	—

NOTES:
NRC No regulatory criteria.

Data Qualifiers
J Indicates that the value for the compound is an estimated value.
U Indicates that the compound was not detected above the reported sample quantitation limit.
= Indicates that the compound was detected at the concentration reported.

Table 3. Well Construction Details

Boring/Well Number	Date Installed	Boring Depth (ft BGS)	Screened Interval (ft BGS)	Type of Completion	Coordinates (NAD83)		Elevation (NAVD88)	
					Northing	Easting	Ground Surface	Top of Casing
Additional Well Installation – June 2002								
BF-MW-21R	06/21/02	15.0	4.8 – 14.8	2-in. PVC	739331.22	973250.78	14.7	14.57
Additional Well Installation – June 2004								
BR-MW-35	06/22/04	13.0	2.4 – 12.4	2-in. PVC	739834.57	973604.28	15.14	14.94
BR-MW-36	06/23/04	13.0	2.6 – 12.6	2-in. PVC	739725.51	973679.39	15.45	15.16
BR-MW-37	06/23/04	13.0	2.3 – 12.3	2-in. PVC	739657.72	973622.11	16.10	16.07

NOTES:
BGS Below ground surface.
NAD North American Datum.
PVC Polyvinyl chloride.

Table 4. Free Product Removal Activities

Well Number	Date	Depth of Screened Interval (ft BTOC)	Depth to Free Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Description
BF-MW-E5	06/18/04	4.7 – 14.7	4.51	7.65	3.14	40 gal of water/product mixture pumped from well. An absorbent sock was placed in the well upon completion of pumping
BF-MW-E5	07/16/04	4.7 – 14.7	4.48	5.71	1.23	2 gal of water/product mixture pumped from well prior to sampling. Absorbent socks were not placed in the well because the free product was removed during well purging
BF-MW-E5	08/23/04	4.7 – 14.7	4.57	**4.64**	0.07	40 gal of water/product mixture pumped from well. Absorbent socks were not placed in the well because the free product was removed during pumping
BF-MW-E5	09/20/04	4.7 – 14.7	—	**4.09**	0	No pumping of the well was conducted. Absorbent socks were not placed in the well because free product was not present
BF-MW-E5	10/18/04	4.7 – 14.7	—	**4.07**	0	50 gal of water/product mixture pumped from well. Absorbent socks were not placed in the well because free product was not present
BF-MW-E5	11/19/04	4.7 – 14.7	sheen	5.08	sheen	No pumping of the well was conducted. Absorbent socks were not placed in the well because only a sheen of free product was present
BF-MW-E5	12/16/04	4.7 – 14.7	sheen	5.11	sheen	40 gal of water/product mixture pumped from well. Absorbent socks were not placed in the well because only a sheen of free product was present
BF-MW-E5	01/13/05	4.7 – 14.7	—	4.81	0	1 gal of water/product mixture pumped from well prior to sampling. Absorbent socks were not placed in the well because free product was not present
BF-MW-E5	02/16/05	4.7 – 14.7	4.54	**4.55**	0.01	40 gal of water/product mixture pumped from well. Absorbent socks were not placed in the well because free product was removed during pumping
BF-MW-E5	03/16/05	4.7 – 14.7	sheen	**3.92**	sheen	No pumping of the well was conducted. Absorbent socks were not placed in the well because only a sheen of free product was present
BF-MW-E5	04/28/05	4.7 – 14.7	4.06	**4.13**	0.07	~35 gal of water/product mixture pumped from well. Absorbent socks were not placed in the well because free product was removed during pumping
BF-MW-E5	05/16/05	4.7 – 14.7	—	**3.95**	0	No pumping of the well was conducted. Absorbent socks were not placed in the well because free product was not present

NOTES:
Bold indicates the water table is above the screened interval.
BTOC Below top of casing.

Table 4. Free Product Removal Activities (continued)

Well Number	Date	Depth of Screened Interval (ft BTOC)	Depth to Free Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Description
BF-MW-E5	06/16/05	4.7 – 14.7	3.68	**3.70**	0.02	45 gal of water/product mixture pumped from well. Absorbent socks were not placed in the well because free product was removed during pumping
BF-MW-E5	07/19/05	4.7 – 14.7	—	**4.09**	0	No pumping of the well was conducted. Absorbent socks were not placed in the well because free product was not present
BF-MW-E5	Aug. 2005	4.7 – 14.7	—			No free product pumping or measurements were conducted due to activities taking place at the site
BF-MW-E6	09/20/05	4.7 – 14.7	—	4.98	0	No pumping of the well was conducted. Absorbent socks were not placed in the well because free product was not present
BF-MW-E7	10/13/05	4.7 – 14.7	—	3.71	0	30 gal of water/product mixture pumped from well. Absorbent socks were not placed in the well because free product was removed during pumping

NOTES:
Bold indicates the water table is above the screened interval.
BTOC Below top of casing.

APPENDIX III

LABORATORY ANALYTICAL RESULTS

ANALYTICAL LABORATORY INFORMATION AND DATA VALIDATION CODES

STATE OF GEORGIA
ENVIRONMENTAL LABORATORY ACCREDITATION

	Name of Laboratory:	**General Engineering Laboratories, Inc.**
	Address:	P.O. Box 30712 2040 Savage Road Charleston, SC 29407
	Contact:	Wendy Dimmick
	Telephone number:	(843) 556-8171
	Fax number:	(843) 766-1178
#1	Accrediting Authority:	**State of South Carolina**
	Accreditation Number:	SC-10120001
	Effective Date:	Extension granted while recertification in process; January 27, 2003
	Expiration Date:	March 26, 2006
	Accreditation Scope:	SDWA, CWA, RCRA, CERCLA
#2	Accrediting Authority:	**State of Florida**
	Accreditation Number:	E-87156
	Effective Date:	July 1, 2001 (initial and reaccredited on July 1 each year thereafter)
	Expiration Date:	June 30, 2006
	Accreditation Scope:	SDWA, CWA, RCRA, CERCLA

DATA VALIDATION REASON CODES

Organic, Inorganic, and Radiological Analytical Data

Holding Times A01 Extraction holding times were exceeded. A02 Extraction holding times were grossly exceeded. A03 Analysis holding times were exceeded. A04 Analysis holding times were grossly exceeded. A05 Samples were not preserved properly. A06 Professional judgment was used to qualify the data.	**GC/MS Tuning** B01 Mass calibration was in error, even after applying expanded criteria. B02 Mass calibration was not performed every 12 hours. B03 Mass calibration did not meet ion abundance criteria. B04 Professional judgment was used to qualify the data.
Initial/Continuing Calibration – Organics C01 Initial calibration RRF was <0.05. C02 Initial calibration RDS was >30%. C03 Initial calibration sequence was not followed as required. C04 Continuing calibration RRF was <0.05. C05 Continuing calibration %D was >25%. C06 Continuing calibration was not performed at the required frequency. C07 Resolution criteria were not met. C08 RPD criteria were not met. C09 RDS criteria were not met. C10 Retention time of compounds was outside windows. C11 Compounds were not adequately resolved. C12 Breakdown of endrin or DDT was >30%. C13 Combined breakdown of endrin/DDT was >30%. C14 Professional judgment was used to qualify the data.	**Initial/Continuing Calibration – Inorganics** D01 ICV or CCV was not performed for every analyte. D02 ICV recovery was above the upper control limit. D03 ICV recovery was below the lower control limit. D04 CCV recovery was above the upper control limit. D05 CCV recovery was below the lower control limit. D06 Standard curve was not established with the minimum number of standards. D07 Instrument was not calibrated daily or each time the instrument was set up. D08 Correlation coefficient was <0.995. D09 Mid-range cyanide standard was not distilled. D10 Professional judgment was used to qualify the data.
ICP and Furnace Requirements E01 Interference check sample recovery was outside the control limit. E02 Duplicate injections were outside the control limit. E03 Post-digestion spike recovery was outside the control limit. E04 MSA was required but not performed. E05 MSA correlation coefficient was <0.995. E06 MSA spikes were not at the correct concentration. E07 Serial dilution criteria were not met. E08 Professional judgment was used to qualify the data.	**Blanks** F01 Sample data were qualified as a result of the method blank. F02 Sample data were qualified as a result of the field blank. F03 Sample data were qualified as a result of the equipment rinsate. F04 Sample data were qualified as a result of the trip blank. F05 Gross contamination exists. F06 Concentration of the contaminant was detected at a level below the CRQL. F07 Concentration of the contaminant was detected at a level less than the action limit, but greater than the CRQL. F08 Concentration of the contaminant was detected at a level that exceeds the action level. F09 No laboratory blanks were analyzed. F10 Blank had a negative value >2 times the IDL. F11 Blanks were not analyzed at required frequency. F12 Professional judgment was used to qualify the data.
Surrogate/Radiological Chemical Recovery G01 Surrogate/radiological chemical recovery was above the upper control limit. G02 Surrogate/radiological chemical recovery was below the lower control limit. G03 Surrogate recovery was <10%. G04 Surrogate recovery was zero. G05 Surrogate/radiological chemical recovery data was not present. G06 Professional judgment was used to qualify the data. G07 Radiological chemical recovery was <20%. G08 Radiological chemical recovery was >150%.	**Matrix Spike/Matrix Spike Duplicate (MS/MSD)** H01 MS/MSD recovery was above the upper control limit. H02 MS/MSD recovery was below the lower control limit. H03 MD/MSD recovery was <10%. H04 MS/MSD pairs exceeded the RPD limit. H05 No action was taken on MS/MSD limit. H06 Professional judgment was used to qualify the data. H07 Radiological MS/MSD recovery was <20%. H08 Radiological MS/MSD recovery was >160%. H09 Radiological MS/MSD samples were not analyzed at the required frequency.
Matrix Spike I01 MS recovery was above the upper control limit. I02 MS recovery was below the lower control limit. I03 MS recovery was <30%. I04 No action was taken on MS data. I05 Professional judgment was used to qualify the data.	**Laboratory Duplicate** J01 Duplicate RPD/radiological duplicate error ratio (DER) was outside the control limit. J02 Duplicate sample results were >5 times the CRDL. J03 Duplicate sample results were <5 times the CRDL. J04 Professional judgment was used to qualify the data. J05 Duplicate was not analyzed at the required frequency.

DATA VALIDATION REASON CODES (continued)

Organic, Inorganic, and Radiological Analytical Data

Internal Area Summary K01 Area counts were outside the control limits. K02 Extremely low area counts or performance was exhibited by a major drop-off. K03 IS retention time varied by more than 30 sec. K04 Professional judgment was used to qualify the data.	**Pesticide Cleanup Checks** L01 10% recovery was obtained during either check. L02 Recoveries during either check were >120%. L03 GPC cleanup recoveries were outside the control limits. L04 Florisil cartridge cleanup recoveries were outside the control limits. L05 Professional judgment was used to qualify the data.
Target Compound Identification M01 Incorrect identifications were made. M02 Qualitative criteria were not met. M03 Cross contamination occurred. M04 Confirmatory analysis was not performed. M05 No results were provided. M06 Analysis occurred outside 12-hour GC/MS window. M07 Professional judgment was used to qualify the data. M08 The %D between the two pesticide/PCB column checks was >25%.	**Compound Quantitation and Reported CRQLs** N01 Quantitation limits were affected by large off-scale peaks. N02 MDLs reported by the laboratory exceeded corresponding CRQLs. N03 Professional judgment used to qualify the data.
Tentatively Identified Compounds (TICs) O01 Compound was suspected laboratory contaminant and was not detected in the blank. O02 TIC result was not above 10 times the level found in the blank. O03 Professional judgment was used to qualify analytical data.	**Laboratory Control Samples (LCSs)** P01 LCS recovery was above upper control limit. P02 LCS recovery was below lower control limit. P03 LCS recovery was <50%. P04 No action was taken on the LCS data. P05 LCS was not analyzed at required frequency. P06 Radiological LCS recovery was <50% for aqueous samples, <40% for solid samples. P07 Radiological LCS recovery was >150% for aqueous samples, >160% for solid samples. P08 Professional judgment was used to qualify the data.
Field Duplicate Q01 Field duplicate RPDs were >30% for waters and/or >50% for soils. Q02 Radiological field duplicate error ratio (DER) was outside the control limit. Q03 Duplicate sample results were >5 times the CRDL. Q04 Duplicate sample results were <5 times the CRDL.	**Radiological Calibration** R01 Efficiency calibration criteria were not met. R02 Energy calibration criteria were not met. R03 Resolution calibration criteria were not met. R04 Background determination criteria were not met. R05 Quench curve criteria were not met. R06 Absorption curve criteria were not met. R07 Plateau curve criteria were not met. R08 Professional judgment was used to qualify the data.
Radiological Calibration Verification S01 Efficiency verification criteria were not met. S02 Energy verification criteria were not met. S03 Resolution verification criteria were not met. S04 Background verification criteria were not met. S05 Cross-talk verification criteria were not met. S06 Professional judgment was used to qualify the data.	

THIRD SEMIANNUAL SAMPLING EVENT

JULY 2004

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF0452

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167014

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 7U437

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: not dec. _____ Date Analyzed: 07/30/04

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q	
71-43-2	Benzene	1.0	1.0	U	U
108-88-3	Toluene	1.0	~~0.64~~	J	U F04, F06
100-41-4	Ethylbenzene	1.0	1.0	U	U
1330-20-7	Xylenes (total)	1.0	1.0	U	U

DATA VALIDATION COPY

1B

SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF0452

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167014

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: S2G2122

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/20/04

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 07/21/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
91-20-3	Naphthalene	1.0	U	u
91-57-6	2-Methylnaphthalene	1.0	U	
91-58-7	2-Chloronaphthalene	1.0	U	
208-96-8	Acenaphthylene	1.0	U	
83-32-9	Acenaphthene	1.0	U	
86-73-7	Fluorene	1.0	U	
85-01-8	Phenanthrene	1.0	U	
120-12-7	Anthracene	1.0	U	
206-44-0	Fluoranthene	1.0	U	
129-00-0	Pyrene	1.0	U	
56-55-3	Benzo(a)anthracene	1.0	U	
205-99-2	Benzo(b)fluoranthene	1.0	U	
207-08-9	Benzo(k)fluoranthene	1.0	U	
50-32-8	Benzo(a)pyrene	1.0	U	
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U	
53-70-3	Dibenzo(a,h)anthracene	1.0	U	
191-24-2	Benzo(ghi)perylene	1.0	U	

DATA VALIDATION COPY

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF2552

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167013

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 7U436

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: not dec. _____ Date Analyzed: 07/30/04

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
71-43-2	Benzene	1.0	U	U
108-88-3	Toluene	~~0.60~~ 1.0	J	U F04, F06
100-41-4	Ethylbenzene	1.0	U	U
1330-20-7	Xylenes (total)	1.0	U	U

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SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF2552

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167013

Sample wt/vol: 1010 (g/mL) ML Lab File ID: S2G2121

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/20/04

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 07/21/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	0.56	J
91-57-6	2-Methylnaphthalene	0.60	J
91-58-7	2-Chloronaphthalene	0.99	U
208-96-8	Acenaphthylene	0.99	U
83-32-9	Acenaphthene	0.99	U
86-73-7	Fluorene	0.99	U
85-01-8	Phenanthrene	0.99	U
120-12-7	Anthracene	0.99	U
206-44-0	Fluoranthene	0.99	U
129-00-0	Pyrene	0.99	U
56-55-3	Benzo(a)anthracene	0.99	U
205-99-2	Benzo(b)fluoranthene	0.99	U
207-08-9	Benzo(k)fluoranthene	0.99	U
50-32-8	Benzo(a)pyrene	0.99	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.99	U
53-70-3	Dibenzo(a,h)anthracene	0.99	U
191-24-2	Benzo(ghi)perylene	0.99	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF2652

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167012

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 7U435

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: not dec. _____ Date Analyzed: 07/30/04

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q	
71-43-2	Benzene		1.0	U	U
108-88-3	Toluene	1.0	~~0.47~~	J	U FOY, FOL
100-41-4	Ethylbenzene		1.0	U	U
1330-20-7	Xylenes (total)		1.0	U	U

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DATA VALIDATION COPY

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SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF2652

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167012

Sample wt/vol: 940.0 (g/mL) ML Lab File ID: S2G2120

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/20/04

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 07/21/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	0.65	J
91-57-6	2-Methylnaphthalene	0.66	J
91-58-7	2-Chloronaphthalene	1.1	U
208-96-8	Acenaphthylene	1.1	U
83-32-9	Acenaphthene	1.1	U
86-73-7	Fluorene	1.1	U
85-01-8	Phenanthrene	1.1	U
120-12-7	Anthracene	1.1	U
206-44-0	Fluoranthene	1.1	U
129-00-0	Pyrene	1.1	U
56-55-3	Benzo(a)anthracene	1.1	U
205-99-2	Benzo(b)fluoranthene	1.1	U
207-08-9	Benzo(k)fluoranthene	1.1	U
50-32-8	Benzo(a)pyrene	1.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.1	U
53-70-3	Dibenzo(a,h)anthracene	1.1	U
191-24-2	Benzo(ghi)perylene	1.1	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF2656

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167003

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 7U433

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: not dec. _____ Date Analyzed: 07/30/04

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q	
71-43-2	Benzene	1.0	U		U
108-88-3	Toluene	1.0 ~~0.53~~	J		U F04, F06
100-41-4	Ethylbenzene	1.0	U		U
1330-20-7	Xylenes (total)	1.0	U		U

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SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF2656

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167003

Sample wt/vol: 1030 (g/mL) ML Lab File ID: S2G2111

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/20/04

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 07/21/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	0.97	U
91-57-6	2-Methylnaphthalene	0.97	U
91-58-7	2-Chloronaphthalene	0.97	U
208-96-8	Acenaphthylene	0.97	U
83-32-9	Acenaphthene	0.97	U
86-73-7	Fluorene	0.97	U
85-01-8	Phenanthrene	0.97	U
120-12-7	Anthracene	0.97	U
206-44-0	Fluoranthene	0.97	U
129-00-0	Pyrene	0.97	U
56-55-3	Benzo(a)anthracene	0.97	U
205-99-2	Benzo(b)fluoranthene	0.97	U
207-08-9	Benzo(k)fluoranthene	0.97	U
50-32-8	Benzo(a)pyrene	0.97	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.97	U
53-70-3	Dibenzo(a,h)anthracene	0.97	U
191-24-2	Benzo(ghi)perylene	0.97	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF2752

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167002

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 7U432

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: not dec. _____ Date Analyzed: 07/30/04

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
71-43-2	Benzene	1.0	U	U
108-88-3	Toluene	1.0 ~~0.44~~	J	U F04, F06
100-41-4	Ethylbenzene	1.0	U	U
1330-20-7	Xylenes (total)	1.0	U	U

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SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF2752

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167002

Sample wt/vol: 1040 (g/mL) ML Lab File ID: S2G2110

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/20/04

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 07/21/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
91-20-3	Naphthalene	0.96	U	u
91-57-6	2-Methylnaphthalene	0.96	U	
91-58-7	2-Chloronaphthalene	0.96	U	
208-96-8	Acenaphthylene	0.96	U	
83-32-9	Acenaphthene	0.96	U	
86-73-7	Fluorene	0.96	U	
85-01-8	Phenanthrene	0.96	U	
120-12-7	Anthracene	0.96	U	
206-44-0	Fluoranthene	0.96	U	
129-00-0	Pyrene	0.96	U	
56-55-3	Benzo(a)anthracene	0.96	U	
205-99-2	Benzo(b)fluoranthene	0.96	U	
207-08-9	Benzo(k)fluoranthene	0.96	U	
50-32-8	Benzo(a)pyrene	0.96	U	
193-39-5	Indeno(1,2,3-cd)pyrene	0.96	U	
53-70-3	Dibenzo(a,h)anthracene	0.96	U	
191-24-2	Benzo(ghi)perylene	0.96	U	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF3552

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167015

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 7U438

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: not dec. _____ Date Analyzed: 07/30/04

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q	
71-43-2	Benzene		1.0	U	U
108-88-3	Toluene	1.0	~~0.59~~	J	U F04, F06
100-41-4	Ethylbenzene		1.0	U	U
1330-20-7	Xylenes (total)		1.0	U	U

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SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF3552

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167015

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: S2G2123

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/20/04

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 07/21/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.0	U
91-57-6	2-Methylnaphthalene	1.0	U
91-58-7	2-Chloronaphthalene	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	1.0	U
86-73-7	Fluorene	1.0	U
85-01-8	Phenanthrene	1.0	U
120-12-7	Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U
53-70-3	Dibenzo(a,h)anthracene	1.0	U
191-24-2	Benzo(ghi)perylene	1.0	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF3652

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167001

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 7U431

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: not dec. _____ Date Analyzed: 07/30/04

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q	
71-43-2	Benzene	1.0	U		U
108-88-3	Toluene	1.0 ~~0.49~~	J		U FOY, FOL
100-41-4	Ethylbenzene	1.0	U		U
1330-20-7	Xylenes (total)	1.0	U		U

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EPA SAMPLE NO.

BF3652

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167001

Sample wt/vol: 1020 (g/mL) ML Lab File ID: S2G2107

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/20/04

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 07/21/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	0.98	U
91-57-6	2-Methylnaphthalene	0.98	U
91-58-7	2-Chloronaphthalene	0.98	U
208-96-8	Acenaphthylene	0.98	U
83-32-9	Acenaphthene	0.98	U
86-73-7	Fluorene	0.98	U
85-01-8	Phenanthrene	0.98	U
120-12-7	Anthracene	0.98	U
206-44-0	Fluoranthene	0.98	U
129-00-0	Pyrene	0.98	U
56-55-3	Benzo(a)anthracene	0.98	U
205-99-2	Benzo(b)fluoranthene	0.98	U
207-08-9	Benzo(k)fluoranthene	0.98	U
50-32-8	Benzo(a)pyrene	0.98	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.98	U
53-70-3	Dibenzo(a,h)anthracene	0.98	U
191-24-2	Benzo(ghi)perylene	0.98	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF3752

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167004

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 7U434

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: not dec. _____ Date Analyzed: 07/30/04

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
71-43-2	Benzene	1.0	U	4
108-88-3	Toluene	1.0	U	
100-41-4	Ethylbenzene	1.0	U	
1330-20-7	Xylenes (total)	1.0	U	

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SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF3752

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167004

Sample wt/vol: 970.0 (g/mL) ML Lab File ID: S2G2112

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/20/04

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 07/21/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.0	U
91-57-6	2-Methylnaphthalene	1.0	U
91-58-7	2-Chloronaphthalene	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	1.0	U
86-73-7	Fluorene	1.0	U
85-01-8	Phenanthrene	1.0	U
120-12-7	Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U
53-70-3	Dibenzo(a,h)anthracene	1.0	U
191-24-2	Benzo(ghi)perylene	1.0	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE152

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167011

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 9U517

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: not dec. _____ Date Analyzed: 07/30/04

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q	
71-43-2	Benzene	1.0	1.0	U	U
108-88-3	Toluene	~~0.62~~		J	U F04, F06
100-41-4	Ethylbenzene	1.0		U	U
1330-20-7	Xylenes (total)	1.0		U	U

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SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE152

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167011

Sample wt/vol: 980.0 (g/mL) ML Lab File ID: S2G2119

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/20/04

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 07/21/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.0	U
91-57-6	2-Methylnaphthalene	1.0	U
91-58-7	2-Chloronaphthalene	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	2.8	
86-73-7	Fluorene	5.7	
85-01-8	Phenanthrene	5.8	
120-12-7	Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U
53-70-3	Dibenzo(a,h)anthracene	1.0	U
191-24-2	Benzo(ghi)perylene	1.0	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE252

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167010

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 7U423

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: not dec. _____ Date Analyzed: 07/29/04

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q	
71-43-2	Benzene	1.0	U		U
108-88-3	Toluene	1.0	0.55	J	U F04, F06
100-41-4	Ethylbenzene	1.0	U		U
1330-20-7	Xylenes (total)	1.0	U		U

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SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE252

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167010

Sample wt/vol: 970.0 (g/mL) ML Lab File ID: S2G2118

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/20/04

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 07/21/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.0	U
91-57-6	2-Methylnaphthalene	1.0	U
91-58-7	2-Chloronaphthalene	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	1.0	U
86-73-7	Fluorene	1.0	U
85-01-8	Phenanthrene	1.0	U
120-12-7	Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U
53-70-3	Dibenzo(a,h)anthracene	1.0	U
191-24-2	Benzo(ghi)perylene	1.0	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE254

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167009

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 7U422

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: not dec. _____ Date Analyzed: 07/29/04

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q	
71-43-2	Benzene	1.0	1.0	U	U
108-88-3	Toluene	0.80		J	U F04, F06
100-41-4	Ethylbenzene	1.0		U	U
1330-20-7	Xylenes (total)	1.0		U	U

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DATA VALIDATION

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SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE254

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167009

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: S2G2117

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/20/04

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 07/21/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.0	U
91-57-6	2-Methylnaphthalene	1.0	U
91-58-7	2-Chloronaphthalene	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	1.0	U
86-73-7	Fluorene	1.0	U
85-01-8	Phenanthrene	1.0	U
120-12-7	Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U
53-70-3	Dibenzo(a,h)anthracene	1.0	U
191-24-2	Benzo(ghi)perylene	1.0	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE352

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167007

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 9U516

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: not dec. _____ Date Analyzed: 07/30/04

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
71-43-2	Benzene	1.0	U	U
108-88-3	Toluene	1.0 ~~0.60~~	J	U F04, F06
100-41-4	Ethylbenzene	1.0	U	U
1330-20-7	Xylenes (total)	1.0	U	U

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SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE352

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167007

Sample wt/vol: 970.0 (g/mL) ML Lab File ID: S2G2115

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/20/04

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 07/21/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.0	U
91-57-6	2-Methylnaphthalene	1.0	U
91-58-7	2-Chloronaphthalene	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	1.0	U
86-73-7	Fluorene	1.0	U
85-01-8	Phenanthrene	1.0	U
120-12-7	Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U
53-70-3	Dibenzo(a,h)anthracene	1.0	U
191-24-2	Benzo(ghi)perylene	1.0	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE452

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167005

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 7U418

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: not dec. _____ Date Analyzed: 07/29/04

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
71-43-2	Benzene	1.0	U	U
108-88-3	Toluene	1.0 ~~0.48~~	J	U F04, F06
100-41-4	Ethylbenzene	1.0	U	U
1330-20-7	Xylenes (total)	1.0	U	U

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1B

SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE452

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167005

Sample wt/vol: 1030 (g/mL) ML Lab File ID: S2G2113

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/20/04

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 07/21/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	0.49	J
91-57-6	2-Methylnaphthalene	0.64	J
91-58-7	2-Chloronaphthalene	0.97	U
208-96-8	Acenaphthylene	0.97	U
83-32-9	Acenaphthene	0.97	U
86-73-7	Fluorene	0.97	U
85-01-8	Phenanthrene	0.97	U
120-12-7	Anthracene	0.97	U
206-44-0	Fluoranthene	0.97	U
129-00-0	Pyrene	0.97	U
56-55-3	Benzo(a)anthracene	0.97	U
205-99-2	Benzo(b)fluoranthene	0.97	U
207-08-9	Benzo(k)fluoranthene	0.97	U
50-32-8	Benzo(a)pyrene	0.97	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.97	U
53-70-3	Dibenzo(a,h)anthracene	0.97	U
191-24-2	Benzo(ghi)perylene	0.97	U

J J U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE552

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167006

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 7U419

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: not dec. _____ Date Analyzed: 07/29/04

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	Benzene	2.0	
108-88-3	Toluene	1.0	U
100-41-4	Ethylbenzene	17.3	
1330-20-7	Xylenes (total)	42.7	

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SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE552

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167006

Sample wt/vol: 980.0 (g/mL) ML Lab File ID: S2G2114

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 07/20/04

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 07/21/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	17.3	
91-57-6	2-Methylnaphthalene	8.4	
91-58-7	2-Chloronaphthalene	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	1.6	
86-73-7	Fluorene	2.6	
85-01-8	Phenanthrene	0.57	J
120-12-7	Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U
53-70-3	Dibenzo(a,h)anthracene	1.0	U
191-24-2	Benzo(ghi)perylene	1.0	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE652

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167008

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 7U421

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: not dec. _____ Date Analyzed: 07/29/04

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q	
71-43-2	Benzene	1.0	U		U
108-88-3	Toluene	1.0 ~~0.66~~	J		U F04, F06
100-41-4	Ethylbenzene	1.0	U		U
1330-20-7	Xylenes (total)	1.0	U		U

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SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE652

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167

Matrix: (soil/water) WATER Lab Sample ID: 117167008

Sample wt/vol: 980.0 (g/mL) ML Lab File ID: S2G2116

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:07/20/04

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 07/21/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.0	U
91-57-6	2-Methylnaphthalene	1.0	U
91-58-7	2-Chloronaphthalene	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	1.0	U
86-73-7	Fluorene	1.0	U
85-01-8	Phenanthrene	1.0	U
120-12-7	Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U
53-70-3	Dibenzo(a,h)anthracene	1.0	U
191-24-2	Benzo(ghi)perylene	1.0	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TH0401

TRIP

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167-1

Matrix: (soil/water) WATER Lab Sample ID: 117169001

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 7U439

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: not dec. _____ Date Analyzed: 07/30/04

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
71-43-2	Benzene	1.0	U	U
108-88-3	Toluene	1.0	U	
100-41-4	Ethylbenzene	1.0	U	
1330-20-7	Xylenes (total)	1.0	U	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TH0402

TRIP

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 117167-1

Matrix: (soil/water) WATER Lab Sample ID: 117169011

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 9U604

Level: (low/med) LOW Date Received: 07/19/04

% Moisture: not dec. _____ Date Analyzed: 07/31/04

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
71-43-2	Benzene	1.0	U	U
108-88-3	Toluene	0.80	J	J
100-41-4	Ethylbenzene	1.0	U	U
1330-20-7	Xylenes (total)	1.0	U	U

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SAIC An Employee-Owned Company
Science Applications International Corporation
PO Box 2501, 151 Lafayette Dr., Tennessee 37830 (423) 481-4600

CHAIN OF CUSTODY RECORD

COC NO.: HLTM40

PROJECT NAME: HAAF Long Term Monitoring, D.O. 44

PROJECT NUMBER: 01-1055-04-8991-200

PROJECT MANAGER: ~~Patty Stell~~ Sharon Stoller

Sampler (Signature): Patricia A Stoll (Printed Name): PATRICIA A. STOLL

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29407

PHONE NO: (843) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	REQUESTED PARAMETERS: BTEX	VOC	PAH	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
BF2552	7/16/04	1456	water			2	N		
BF0452	"	1225	"			2	N		
BF2652	"	1410	"			2	N		
BFE252	"	1400	"			2	N		
BFE652	"	1125	"			2	N		
BF3552	7/17/04	931	"			2	N		

PC Stoll 7/19/04

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
Patricia A Stoll	7/19/04 1140	D. Crandall	7/19/04 1430
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RECEIVED BY: [illegible]	7/19/04 1140	RELINQUISHED BY:	
COMPANY NAME: GEL		COMPANY NAME:	
RELINQUISHED BY: [illegible]	7/19/04 1430	RECEIVED BY:	
COMPANY NAME: GEL		COMPANY NAME:	

TOTAL NUMBER OF CONTAINERS: 12

Cooler ID: 303

Cooler Temperature: 4°C

FEDEX NUMBER: N/A

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Science Applications International Corporation
P.O. Box 2501, 157 Lafayette Dr., Tennessee 37830 (423) 481-4600

CHAIN OF CUSTODY RECORD

COC NO.: HLTM 41

PROJECT NAME: HAAF Long Term Monitoring, D.O. 44

PROJECT NUMBER: 01-1055-04-8991-200

PROJECT MANAGER: ~~Patty Stoll~~ Sharon Stoller

Sampler (Signature): P. Stoll (Printed Name): PATRICIA A. STOLL

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29407

PHONE NO: (843) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX	VOC	PAH	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
JFE254	7/16/04	1400	water			2	2		
BFE352	7/16/04	1310				2	2		
BF3752	7/17/04	1000				2	2		
BFE552	7/16/04	1540				2	2		
BFE452	7/16/04	1215				2	2		
BFE152	7/16/04	1500	↓			2	2		

P. Stoll 7/19/04

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 12	Cooler Temperature: 4°C
P. Stoll	7/19/04 1140		7/19/04 1430	Cooler ID: 22	FEDEX NUMBER: N/A
COMPANY NAME: SAIC		COMPANY NAME: GEL			
RECEIVED BY:	Date/Time	RELINQUISHED BY:	Date/Time		
COMPANY NAME: GEL	7/19/04 1140	COMPANY NAME:			
RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time		
COMPANY NAME: GEL	7/19/04 1430	COMPANY NAME:			

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117167, 117169

CHAIN OF CUSTODY RECORD

COC NO.: HLTM42

PROJECT NAME: HAAF Long Term Monitoring, D.O. 44

PROJECT NUMBER: 01-1055-04-8991-200

PROJECT MANAGER: ~~Patty Stoll~~ Sharon Stoller

Sampler (Signature): Patricia A. Stoll (Printed Name): PATRICIA A. STOLL

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29407

PHONE NO: (843) 556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX	VOC	PAH	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
BF3652	7/17/04	1030	water	2		2	4		
BF2752	7/16/04	1005		2		2	4		
BF2656	7/16/04	1336		2		2	4		
BF3752	7/17/04	1000		2			2		
BFE452	7/16/04	1215		2			2		
BFE552	7/16/04	1540		2			2		
BFE352	7/16/04	1310		2			2		
BFE652	7/16/04	1125		2			2		
BFE254	7/16/04	1400		2			2		
BFE252	7/16/04	1400		2			2		
BFE152	7/16/04	1500		2			2		
BF2652	7/16/04	1410		2			2		
BF2552	7/16/04	1456		2			2		

RELINQUISHED BY: Patricia A. Stoll	Date/Time 7/19/04 1140	RECEIVED BY: D. Randall	Date/Time 7/19/04 1430
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RECEIVED BY: Patricia A. Stoll	Date/Time 7/19/04 1140	RELINQUISHED BY:	Date/Time
COMPANY NAME: GEL		COMPANY NAME:	
RELINQUISHED BY: Patricia A. Stoll	Date/Time 7/19/04 1430	RECEIVED BY:	Date/Time
COMPANY NAME: GEL		COMPANY NAME:	

TOTAL NUMBER OF CONTAINERS: 50

Cooler ID: 3

Cooler Temperature: 4°C

FEDEX NUMBER: N/A

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CHAIN OF CUSTODY RECORD

COC NO.: HLTM42

PROJECT NAME: HAAF Long Term Monitoring, D.O. 44

PROJECT NUMBER: 01-1055-04-8991-200

PROJECT MANAGER: ~~Patty Stoll~~ Sharon Stoller

Sampler (Signature): [signature] (Printed Name): PATRICIA A STOLL

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843) 556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX	VOC	PAH	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
BF0452	7/16/04	1225	water	2			2		
BF3552	7/17/04	931		2			2		
TH0401	7/16/04	0745		2			2		11716
AN1864	7/17/04	1353		2			2		
AN0262	7/17/04	1515		2			2		
AN2362	7/17/04	1435		2			2		
AN2262	7/17/04	1400		2			2		
AK0562	7/17/04	1330		2			2		
AK0662	7/17/04	1225		2			2		
AN1862	7/17/04	1350		2			2		
AN0162	7/17/04	1457		2			2		
AN1962	7/17/04	1310		2			2		
TH0402	7/17/04	0745		2			2		

RELINQUISHED BY: [signature]	Date/Time 7/19/04 1140	RECEIVED BY: [signature]	Date/Time 7/19/04 1430	TOTAL NUMBER OF CONTAINERS: 58	Cooler Temperature: 4 °C
COMPANY NAME: SAIC		COMPANY NAME: GEL		Cooler ID: 3	FEDEX NUMBER: N/A
RECEIVED BY: [signature]	Date/Time 7/19/04 1140	RELINQUISHED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			
RELINQUISHED BY: [signature]	Date/Time 7-19-04 1430	RECEIVED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			

FOURTH SEMIANNUAL SAMPLING EVENT

JANUARY 2005

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF0462

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001011

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 9U119

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: not dec. _____ Date Analyzed: 01/25/05

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
71-43-2	Benzene	1.0	U	U
108-88-3	Toluene	1.0	U	
100-41-4	Ethylbenzene	1.0	U	
1330-20-7	Xylenes (total)	1.0	U	

1B

SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF0462

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001011

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S7A2023

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:01/19/05

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 01/20/05

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.0	U
91-57-6	2-Methylnaphthalene	1.0	U
91-58-7	2-Chloronaphthalene	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	1.0	U
86-73-7	Fluorene	1.0	U
85-01-8	Phenanthrene	1.0	U
120-12-7	Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U
53-70-3	Dibenzo(a,h)anthracene	1.0	U
191-24-2	Benzo(ghi)perylene	1.0	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF2562

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001012

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 9U120

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: not dec. _____ Date Analyzed: 01/25/05

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
71-43-2	Benzene	1.0	U	4
108-88-3	Toluene	1.0	U	
100-41-4	Ethylbenzene	1.0	U	
1330-20-7	Xylenes (total)	1.0	U	

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SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF2562

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001012

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S7A2024

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:01/19/05

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 01/20/05

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.0	U
91-57-6	2-Methylnaphthalene	1.0	U
91-58-7	2-Chloronaphthalene	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	1.0	U
86-73-7	Fluorene	1.0	U
85-01-8	Phenanthrene	1.0	U
120-12-7	Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U
53-70-3	Dibenzo(a,h)anthracene	1.0	U
191-24-2	Benzo(ghi)perylene	1.0	U

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DATA VALIDATION COPY

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF2662

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001003

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 9U111

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: not dec. _____ Date Analyzed: 01/25/05

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	Benzene	1.0	U
108-88-3	Toluene	1.0	U
100-41-4	Ethylbenzene	1.0	U
1330-20-7	Xylenes (total)	1.0	U

1B

SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF2662

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001003

Sample wt/vol: 995.0 (g/mL) ML Lab File ID: S7A2015

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:01/19/05

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 01/20/05

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.0	U
91-57-6	2-Methylnaphthalene	1.0	U
91-58-7	2-Chloronaphthalene	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	1.0	U
86-73-7	Fluorene	1.0	U
85-01-8	Phenanthrene	1.0	U
120-12-7	Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U
53-70-3	Dibenzo(a,h)anthracene	1.0	U
191-24-2	Benzo(ghi)perylene	1.0	U

4

DATA VALIDATION COPY

RINSATE

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF2666

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001001

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 9U109

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: not dec. _____ Date Analyzed: 01/25/05

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	Benzene	1.0	U
108-88-3	Toluene	1.0	U
100-41-4	Ethylbenzene	1.0	U
1330-20-7	Xylenes (total)	1.0	U

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DATA VALIDATION COPY

RINSATE

1B

EPA SAMPLE NO.

SVOA ORGANICS ANALYSIS DATA SHEET

BF2666

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001001

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: S7A2013

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:01/19/05

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 01/20/05

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.0	U
91-57-6	2-Methylnaphthalene	1.0	U
91-58-7	2-Chloronaphthalene	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	1.0	U
86-73-7	Fluorene	1.0	U
85-01-8	Phenanthrene	1.0	U
120-12-7	Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U
53-70-3	Dibenzo(a,h)anthracene	1.0	U
191-24-2	Benzo(ghi)perylene	1.0	U

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DATA VALIDATION COPY

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF2762

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001015

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 9U123

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: not dec. _____ Date Analyzed: 01/25/05

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
71-43-2	Benzene	1.0	U	u
108-88-3	Toluene	1.0	U	
100-41-4	Ethylbenzene	1.0	U	
1330-20-7	Xylenes (total)	1.0	U	

1B
SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
BF2762

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001015

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S7A2027

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:01/19/05

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 01/20/05

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.0	U
91-57-6	2-Methylnaphthalene	1.0	U
91-58-7	2-Chloronaphthalene	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	1.0	U
86-73-7	Fluorene	1.0	U
85-01-8	Phenanthrene	1.0	U
120-12-7	Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U
53-70-3	Dibenzo(a,h)anthracene	1.0	U
191-24-2	Benzo(ghi)perylene	1.0	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF3562

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001007

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 9U115

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: not dec. _____ Date Analyzed: 01/25/05

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
71-43-2	Benzene	1.0	U	u
108-88-3	Toluene	1.0	U	
100-41-4	Ethylbenzene	1.0	U	
1330-20-7	Xylenes (total)	1.0	U	

DATA VALIDATION

1B

SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF3562

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001007

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S7A2019

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:01/19/05

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 01/20/05

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.0	U
91-57-6	2-Methylnaphthalene	1.0	U
91-58-7	2-Chloronaphthalene	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	1.0	U
86-73-7	Fluorene	1.0	U
85-01-8	Phenanthrene	1.0	U
120-12-7	Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U
53-70-3	Dibenzo(a,h)anthracene	1.0	U
191-24-2	Benzo(ghi)perylene	1.0	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF3662

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001006

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 9U114

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: not dec. _____ Date Analyzed: 01/25/05

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
71-43-2	Benzene	1.0	U	U
108-88-3	Toluene	1.0	U	
100-41-4	Ethylbenzene	1.0	U	
1330-20-7	Xylenes (total)	1.0	U	

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SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF3662

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001006

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: S7A2018

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:01/19/05

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 01/20/05

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

USQ

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.0	U
91-57-6	2-Methylnaphthalene	1.0	U
91-58-7	2-Chloronaphthalene	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	1.0	U
86-73-7	Fluorene	1.0	U
85-01-8	Phenanthrene	1.0	U
120-12-7	Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U
53-70-3	Dibenzo(a,h)anthracene	1.0	U
191-24-2	Benzo(ghi)perylene	1.0	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF3762

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001008

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 9U116

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: not dec. _____ Date Analyzed: 01/25/05

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
71-43-2	Benzene	1.0	U	u
108-88-3	Toluene	1.0	U	
100-41-4	Ethylbenzene	1.0	U	
1330-20-7	Xylenes (total)	1.0	U	

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SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BF3762

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001008

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: S7A2020

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:01/19/05

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 01/20/05

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.0	U
91-57-6	2-Methylnaphthalene	1.0	U
91-58-7	2-Chloronaphthalene	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	1.0	U
86-73-7	Fluorene	1.0	U
85-01-8	Phenanthrene	1.0	U
120-12-7	Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U
53-70-3	Dibenzo(a,h)anthracene	1.0	U
191-24-2	Benzo(ghi)perylene	1.0	U

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
BFE162

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001009

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 9U117

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: not dec. _____ Date Analyzed: 01/25/05

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
71-43-2	Benzene		1.0	U
108-88-3	Toluene		1.0	U
100-41-4	Ethylbenzene		1.0	U
1330-20-7	Xylenes (total)		1.0	U

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DATA VALIDATION

1B

SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE162

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001009

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S7A2021

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:01/19/05

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 01/20/05

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.0	U
91-57-6	2-Methylnaphthalene	1.0	U
91-58-7	2-Chloronaphthalene	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	1.6	
86-73-7	Fluorene	3.1	
85-01-8	Phenanthrene	1.2	
120-12-7	Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U
53-70-3	Dibenzo(a,h)anthracene	1.0	U
191-24-2	Benzo(ghi)perylene	1.0	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE262

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001002

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 9U110

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: not dec. _____ Date Analyzed: 01/25/05

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
71-43-2	Benzene	1.0	U	U
108-88-3	Toluene	1.0	U	
100-41-4	Ethylbenzene	1.0	U	
1330-20-7	Xylenes (total)	1.0	U	

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SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE262

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001002

Sample wt/vol: 1010 (g/mL) ML Lab File ID: S7A2014

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:01/19/05

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 01/20/05

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	0.99	U
91-57-6	2-Methylnaphthalene	0.99	U
91-58-7	2-Chloronaphthalene	0.99	U
208-96-8	Acenaphthylene	0.99	U
83-32-9	Acenaphthene	0.99	U
86-73-7	Fluorene	0.99	U
85-01-8	Phenanthrene	0.99	U
120-12-7	Anthracene	0.99	U
206-44-0	Fluoranthene	0.99	U
129-00-0	Pyrene	0.99	U
56-55-3	Benzo(a)anthracene	0.99	U
205-99-2	Benzo(b)fluoranthene	0.99	U
207-08-9	Benzo(k)fluoranthene	0.99	U
50-32-8	Benzo(a)pyrene	0.99	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.99	U
53-70-3	Dibenzo(a,h)anthracene	0.99	U
191-24-2	Benzo(ghi)perylene	0.99	U

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FORM I SV-1 OLM03.0

DUPLICATE

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE264

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001004

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 9U112

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: not dec. _____ Date Analyzed: 01/25/05

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
71-43-2	Benzene	1.0	U	U
108-88-3	Toluene	1.0	U	
100-41-4	Ethylbenzene	1.0	U	
1330-20-7	Xylenes (total)	1.0	U	

DUPLICATE

1B

SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE264

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001004

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S7A2016

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:01/19/05

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 01/20/05

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.0	U
91-57-6	2-Methylnaphthalene	1.0	U
91-58-7	2-Chloronaphthalene	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	1.0	U
86-73-7	Fluorene	1.0	U
85-01-8	Phenanthrene	1.0	U
120-12-7	Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U
53-70-3	Dibenzo(a,h)anthracene	1.0	U
191-24-2	Benzo(ghi)perylene	1.0	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE362

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001005

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 9U113

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: not dec. _____ Date Analyzed: 01/25/05

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
71-43-2	Benzene		1.0	U
108-88-3	Toluene		1.0	U
100-41-4	Ethylbenzene		1.0	U
1330-20-7	Xylenes (total)		1.0	U

U

1B
SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
BFE362

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001005

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S7A2017

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:01/19/05

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 01/20/05

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	0.31	J
91-57-6	2-Methylnaphthalene	1.4	
91-58-7	2-Chloronaphthalene	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	1.0	U
86-73-7	Fluorene	1.0	U
85-01-8	Phenanthrene	1.0	U
120-12-7	Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U
53-70-3	Dibenzo(a,h)anthracene	1.0	U
191-24-2	Benzo(ghi)perylene	1.0	U

J = U

FORM I SV-1 OLM03.0

DATA VALIDATION COPY

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE462

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001014

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 9U122

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: not dec. _____ Date Analyzed: 01/25/05

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
71-43-2	Benzene	1.0	U	U
108-88-3	Toluene	1.0	U	↓
100-41-4	Ethylbenzene	1.0	U	↓
1330-20-7	Xylenes (total)	0.90	J	J

1B

SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE462

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001014

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: S7A2026

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:01/19/05

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 01/20/05

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

USE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	0.61	J
91-57-6	2-Methylnaphthalene	1.5	
91-58-7	2-Chloronaphthalene	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	1.0	U
86-73-7	Fluorene	1.0	U
85-01-8	Phenanthrene	1.0	U
120-12-7	Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U
53-70-3	Dibenzo(a,h)anthracene	1.0	U
191-24-2	Benzo(ghi)perylene	1.0	U

J J U GO2

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE562

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001010

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 9U118

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: not dec. _____ Date Analyzed: 01/25/05

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
71-43-2	Benzene	1.0	U	
108-88-3	Toluene	0.43	J	
100-41-4	Ethylbenzene	10.4		
1330-20-7	Xylenes (total)	34.9		

FORM I VOA OLM03.0

DATA VALIDATION COPY

1B

SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE562

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001010

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: S7A2022

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 01/19/05

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 01/20/05

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	32.9	
91-57-6	2-Methylnaphthalene	43.2	
91-58-7	2-Chloronaphthalene	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	5.4	
86-73-7	Fluorene	10.3	
85-01-8	Phenanthrene	10.7	
120-12-7	Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	2.4	
56-55-3	Benzo(a)anthracene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U
53-70-3	Dibenzo(a,h)anthracene	1.0	U
191-24-2	Benzo(ghi)perylene	1.0	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE662

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001013

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 9U121

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: not dec. _____ Date Analyzed: 01/25/05

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
71-43-2	Benzene	1.0	U	U
108-88-3	Toluene	0.47	J	J
100-41-4	Ethylbenzene	1.0	U	U
1330-20-7	Xylenes (total)	1.0	U	U

1B

SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BFE662

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 129001

Matrix: (soil/water) WATER Lab Sample ID: 129001013

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S7A2025

Level: (low/med) LOW Date Received: 01/17/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:01/19/05

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 01/20/05

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.0	U
91-57-6	2-Methylnaphthalene	1.0	U
91-58-7	2-Chloronaphthalene	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	1.0	U
86-73-7	Fluorene	1.0	U
85-01-8	Phenanthrene	1.0	U
120-12-7	Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U
53-70-3	Dibenzo(a,h)anthracene	1.0	U
191-24-2	Benzo(ghi)perylene	1.0	U

u

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CHAIN OF CUSTODY RECORD

COC NO.: H4TM51

PROJECT NAME: HAAF Long Term Monitoring, D.O. 44

PROJECT NUMBER: 01-1055-04-8991-200

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Patricia A. Stoll (Printed Name): PATRICIA A. STOLL

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX	VOC		No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
BF2666	1/13/05	0955	water	2			2		12900/001
BFE262		1505		2			2		002
BF2662		0955		2			2		003
BFE264		1505		2			2		004
BFE362		1550		2			2		005
BF3662	1/14/05	1120		2			2		006
BF3562		1020		2			2		007
BF3762		1100		2			2		008
BFE162	1/13/05	1420		2			2		009
BFE562		1655		2			2		010
BF0462	1/12/05	1555		2			2		011
BF2562		1645		2			2		012
BFE662	1/13/05	1735		2			2		013

REQUESTED PARAMETERS

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 13/12	Cooler Temperature: 4°C
Patricia A. Stoll	1/17/05 1150		1175		
COMPANY NAME: SAIC		COMPANY NAME: GEL	1455	Cooler ID: 176	FEDEX NUMBER: N/A
RECEIVED BY: Ben Watts	Date/Time 1/17/05 1150	RELINQUISHED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			
RELINQUISHED BY: Ben Watts	Date/Time 1/17/05 1455	RECEIVED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			

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CHAIN OF CUSTODY RECORD

COC NO.: HLTM51

PROJECT NAME: HAAF Long Term Monitoring, D.O. 44

PROJECT NUMBER: 01-1055-04-8991-200

PROJECT MANAGER: Patty Stoll

Sampler (Signature): [signature] (Printed Name): PATRICIA A. STOLL

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX	VOC	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
BFEA102	1/13/05	1625	water	2		2		12900104
TH0407	1/12/05	0800		2		2		12900201
TH0408	1/14/05	0800		2		2		12900202
TH0416	1/16/05	0815			2	2		12900501 2
TH0409	1/15/05	0830		2		2		12900303
AF02C6	1/13/05	1500		2		2		204
AF02C2		1520		2		2		205
AF05C2		1445		2		2		203
AF12C2		1325		2		2		201
AF07C2		1415		2		2		202
AN2272	1/14/05	1545		2		2		206
AK0572		1440		2		2		207
AK0574		1440		2		2		208

RELINQUISHED BY: [signature]	Date/Time 1/17/05 1150	RECEIVED BY: [signature]	Date/Time 1755	TOTAL NUMBER OF CONTAINERS: 26 112	Cooler Temperature: 4°C
COMPANY NAME: SAIC		COMPANY NAME: GEL		Cooler ID: 176	FEDEX NUMBER: N/A
RECEIVED BY: Ben Watkins	Date/Time 1/17/05 1150	RELINQUISHED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			
RELINQUISHED BY: Ben Watkins	Date/Time 1/18/05 1455	RECEIVED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			

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CHAIN OF CUSTODY RECORD

COC NO.: HLTM51

PROJECT NAME: HAAF Long Term Monitoring, D.O. 44

PROJECT NUMBER: 01-1055-04-8991-200

PROJECT MANAGER: Patty Stoll

Sampler (Signature): [signature] (Printed Name): PATRICIA A. STOLL

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843) 556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX	VOC		No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
ASØ422	1/16/05	1100	water		2		2		
ASØB22	↓	1210			2		2		
AS1422	↓	1020	↓		2		2		
BF2762	1/13/05	1140	water	2		?	2		12900105

[signature] 1/16/05

RELINQUISHED BY: [signature]	Date/Time 1/17/05 1150	RECEIVED BY: [signature]	Date/Time 1.17.5 1455	TOTAL NUMBER OF CONTAINERS: ~~13~~ ~~10~~ 12	Cooler Temperature: 4°C
COMPANY NAME: SAIC		COMPANY NAME: GEL		Cooler ID: 176	FEDEX NUMBER: N/A
RECEIVED BY: Ben Watter	Date/Time 1/17/05 1150	RELINQUISHED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			
RELINQUISHED BY: Ben Watter	Date/Time 1/17/05 1455	RECEIVED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			

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CHAIN OF CUSTODY RECORD

COC NO.: HLTM52

PROJECT NAME: HAAF Long Term Monitoring, D.O. 44

PROJECT NUMBER: 01-1055-04-8991-200

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Patty Stoll (Printed Name): PATRICIA A. STOLL

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX	VOC	SVOC/PAH	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
BF2666	1/13/05	0955	Water			2	2		
BF3662	1/14/05	1120				2	2		
BFE362	1/13/05	1550				2	2		
BF3762	1/14/05	1100				2	2		
BF3562	1/14/05	1020				2	2		
BFE264	1/13/05	1505				2	2		

REQUESTED PARAMETERS

P Stoll 1/17/05

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time	TOTAL NUMBER OF CONTAINERS: 12	Cooler Temperature: 4°C
Patty Stoll	1/17/05 1150	[illegible]	1.17.5 1455	Cooler ID: 109	FEDEX NUMBER: N/A
COMPANY NAME: SAIC		COMPANY NAME: GEL			
RECEIVED BY: Ben Watkins	Date/Time 1/17/05 1150	RELINQUISHED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			
RELINQUISHED BY: Ben Watkins	Date/Time 1/17/05 1455	RECEIVED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			

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CHAIN OF CUSTODY RECORD

COC NO.: HLTM53

PROJECT NAME: HAAF Long Term Monitoring, D.O. 44

PROJECT NUMBER: 01-1055-04-8991-200

PROJECT MANAGER: Patty Stoll

Sampler (Signature): P Stoll (Printed Name): PATRICIA A. STOLL

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX	VOC	PAH	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
BF2562	1/12/05	1645	water			2	2		
BFE562	1/13/05	1655				2	2		
BFE462	1/13/05	1625				2	2		
BFE262	1/13/05	1505				2	2		
BFE162	1/13/05	1420				2	2		
BF2662	1/13/05	0955	↓			2	2		

P Stoll 1/17/05

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time		
P Stoll	1/17/05 1150		1.17.5 1455	TOTAL NUMBER OF CONTAINERS: 12	Cooler Temperature: 4°C
COMPANY NAME: SAIC		COMPANY NAME: GEL		Cooler ID: 103	FEDEX NUMBER: N/A
RECEIVED BY: Ben Watkins	Date/Time 1/17/05 1150	RELINQUISHED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			
RELINQUISHED BY: Ben Watkins	Date/Time 1/17/05 1455	RECEIVED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			

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CHAIN OF CUSTODY RECORD

COC NO.: HLTM54

PROJECT NAME: HAAF Long Term Monitoring, D.O. 44

PROJECT NUMBER: 01-1055-04-8991-200

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Patricia A Stoll (Printed Name): PATRICIA A. STOLL

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX	VOC	PAH	Oil + Grease	Pesticides	pH	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
BFE0462	1/12/05	1555	water			2				2		
BFE6662	1/13/05	1735				2				2		
IDW06B	1/17/05	1045			2		2	2	1	7		129006
BF2762	1/13/05	1140	water			2				2		

P Stoll 1/17/05

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 13	Cooler Temperature: 4°C
Patricia A Stoll	1/17/05		1.17.05	Cooler ID: 793	FEDEX NUMBER: N/A
COMPANY NAME: SAIC	1150	COMPANY NAME: GEL	1455		
RECEIVED BY: Ben Walters	Date/Time 1/17/05 1150	RELINQUISHED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			
RELINQUISHED BY: Ben Walters	Date/Time 1/17/05	RECEIVED BY:	Date/Time		
COMPANY NAME: GEL	1455	COMPANY NAME:			

APPENDIX IV

SITE RANKING FORM

THIRD SEMIANNUAL SAMPLING EVENT

JULY 2004

SITE RANKING FORM

Facility Name: **Former UST 117, Building 7002** **Ranked by:** **S. Stoller**

County: **Chatham** **Facility ID #:** **9-025113*2** **Date Ranked:** **9/20/04**

SOIL CONTAMINATION

A. Total PAHs –
Maximum Concentration found on the site
(Assume <0.660 mg/kg if only gasoline was stored on-site.)

☐	≤0.660 mg/kg	=	0
☐	>0.66 - 1 mg/kg	=	10
* ☒	>1 - 10 mg/kg	=	25
☐	>10 mg/kg	=	50

* *CAP-Part B sample from Well MW-E5 (Release #2)*

B. Total Benzene -
Maximum Concentration found on the site

* ☒	≤0.005 mg/kg	=	0
☐	>0.005 - .05 mg/kg	=	1
☐	>0.05 - 1 mg/kg	=	10
☐	>1 - 10 mg/kg	=	25
☐	>10 - 50 mg/kg	=	40
☐	>50 mg/kg	=	50

* *CAP-Part B sample from Well MW-E5 (Release #2)*

C. Depth to Groundwater
(bls = below land surface)

☐	>50' bls	=	1
☐	>25' - 50' bls	=	2
☐	>10' - 25' bls	=	5
☒	≤10' bls	=	10

Fill in the blanks: **(A.** **25** **) + (B.** **0** **) = (** **25** **) x (C.** **10** **) = (D.** **250** **)**

GROUNDWATER CONTAMINATION

E. Free Product (Nonaqueous-phase liquid hydrocarbons; see Guidelines for definition of "sheen.")

☐	No free product	=	0
☐	Sheen - 1/8"	=	250
☐	>1/8" - 6"	=	500
☐	>6" - 1ft.	=	1,000
* ☒	For every additional inch, add another 100 points = 1,000 + 300		

* *1.23 ft (14.76 in) observed in BF-MW-E5 (AST 7009)*

F. Dissolved Benzene -
Maximum Concentration at the site
(One well must be located at the source of the release.)

* ☒	≤5 µg/L	= 0
☐	>5 - 100 µg/L	= 5
☐	>100 - 1,000 µg/L	= 50
☐	>1,000 - 10,000 µg/L	= 500
☐	>10,000 µg/L	= 1500

* *Sample BFE552 (July 2004)*

Fill in the blanks: **(E.** **1300** **) + (F.** **0** **) = (G.** **1300** **)**

Facility Name: Former UST 117, Building 7002 **County:** Chatham **Facility ID #:** 9-025113*2

POTENTIAL RECEPTORS (MUST BE FIELD-VERIFIED)

Distance from nearest contaminant plume boundary to the nearest downgradient and hydraulically connected Point of Withdrawal for water supply. **If the point of withdrawal is not hydraulically connected, evidence as outlined in the CAP-A guidance document MUST be presented to substantiate this claim.**

H. Public Water Supply

☐	Impacted	=	2000
☐	≤500'	=	500
☐	>500' - ¼ mi	=	25
☐	¼ mi - 1 mi	=	10
☐	>1 mi - 2 mi	=	2
* ☒	> 2 mi	=	0

For lower susceptibility areas only:

☐	>1 mi	=	0

Note: If site is in lower susceptibility area, do not use the shaded areas.

* For justification that withdrawal point is not hydraulically connected, see attached text.

I. Non-Public Water Supply

☐	Impacted	=	1000
☐	≤100'	=	500
☐	>100' - 500'	=	25
☐	>500' - ¼ mi	=	5
☐	>¼ - ½ mi	=	2
☒	>½ mi	=	0

For lower susceptibility areas only:

☐	>¼ mi	=	0

J. Distance from nearest Contaminant Plume boundary to downgradient Surface Waters **OR UTILITY TRENCHES & VAULTS** (A utility trench may be omitted from ranking if its invert elevation is more than 5 feet above the water table.)

☐	Impacted	=	500
☒	≤500'	=	50
☐	>500' - 1,000'	=	5
☐	>1,000'	=	2

K. Distance from any Free Product to basements and crawl spaces

☐	Impacted	=	500
☐	<500'	=	50
☐	>500' - 1,000'	=	5
☒	>1,000' or no free product.	=	0

Fill in the blanks: (H. 0) + (I. 0) + (J. 50) + (K. 0) = L. 50

(G. 1300) x (L. 50) = M. 65000

(M. 65000) + (D. 250) = N. 65250

P. **SUSCEPTIBILITY AREA MULTIPLIER**

☐ If site is located in a Low Ground-Water Pollution Susceptibility Area = 0.5

☒ All other sites = 1

Q. **EXPLOSION HAZARD**

Have any explosive petroleum vapors, possibly originating from this release, been detected in any subsurface structure (e.g., utility trenches, basements, vaults, crawl spaces, etc.)?

☐ Yes = 200,000

☒ No = 0

Fill in the blanks: (N. 65250) x (P. 1) = (65250) + (Q. 0)

= 65250 (July 2004 – Third Semiannual Monitoring Event; associated with the plume in the vicinity of BF-MW-E5, AST 7009)

ENVIRONMENTAL SENSITIVITY SCORE

FOURTH SEMIANNUAL SAMPLING EVENT

JANUARY 2005

SITE RANKING FORM

Facility Name: **Former UST 117, Building 7002** **Ranked by:** **S. Stoller**

County: **Chatham** **Facility ID #:** **9-025113*2** **Date Ranked:** **3/18/05**

SOIL CONTAMINATION

A. Total PAHs –
Maximum Concentration found on the site
(Assume <0.660 mg/kg if only gasoline was stored on-site.)

☐	≤0.660 mg/kg	=	0
☐	>0.66 - 1 mg/kg	=	10
* ☒	>1 - 10 mg/kg	=	25
☐	>10 mg/kg	=	50

* *CAP-Part B sample from Well MW-E5 (Release #2)*

B. Total Benzene -
Maximum Concentration found on the site

* ☒	≤0.005 mg/kg	=	0
☐	>0.005 - .05 mg/kg	=	1
☐	>0.05 - 1 mg/kg	=	10
☐	>1 - 10 mg/kg	=	25
☐	>10 - 50 mg/kg	=	40
☐	>50 mg/kg	=	50

* *CAP-Part B sample from Well MW-E5 (Release #2)*

C. Depth to Groundwater
(bls = below land surface)

☐	>50' bls	=	1
☐	>25' - 50' bls	=	2
☐	>10' - 25' bls	=	5
☒	≤10' bls	=	10

Fill in the blanks: **(A.** **25** **) + (B.** **0** **) = (** **25** **) x (C.** **10** **) = (D.** **250** **)**

GROUNDWATER CONTAMINATION

E. Free Product (Nonaqueous-phase liquid hydrocarbons; see Guidelines for definition of "sheen.")

☐	No free product	=	0
* ☒	Sheen - 1/8"	=	250
☐	>1/8" - 6"	=	500
☐	>6" - 1ft.	=	1,000
☐	For every additional inch, add another 100 points	=	1,000 + 300

* *Sheen observed in BF-MW-E5 (AST 7009)*

F. Dissolved Benzene -
Maximum Concentration at the site
(One well must be located at the source of the release.)

* ☒	≤5 µg/L	= 0
☐	>5 - 100 µg/L	= 5
☐	>100 - 1,000 µg/L	= 50
☐	>1,000 - 10,000 µg/L	= 500
☐	>10,000 µg/L	= 1500

* *Sample BFE562 (January 2005)*

Fill in the blanks: **(E.** **250** **) + (F.** **0** **) = (G.** **250** **)**

Facility Name: Former UST 117, Building 7002 **County:** Chatham **Facility ID #:** 9-025113*2

POTENTIAL RECEPTORS (MUST BE FIELD-VERIFIED)

Distance from nearest contaminant plume boundary to the nearest downgradient and hydraulically connected Point of Withdrawal for water supply. **If the point of withdrawal is not hydraulically connected, evidence as outlined in the CAP-A guidance document MUST be presented to substantiate this claim.**

H. Public Water Supply

☐	Impacted	=	2000
☐	≤500'	=	500
☐	>500' - ¼ mi	=	25
☐	¼ mi - 1 mi	=	10
☐	>1 mi - 2 mi	=	2
* ☒	> 2 mi	=	0

For lower susceptibility areas only:

☐	>1 mi	=	0

Note: If site is in lower susceptibility area, do not use the shaded areas.

* For justification that withdrawal point is not hydraulically connected, see attached text.

I. Non-Public Water Supply

☐	Impacted	=	1000
☐	≤100'	=	500
☐	>100' - 500'	=	25
☐	>500' - ¼ mi	=	5
☐	>¼ - ½ mi	=	2
☒	>½ mi	=	0

For lower susceptibility areas only:

☐	>¼ mi	=	0

J. Distance from nearest Contaminant Plume boundary to downgradient Surface Waters **OR UTILITY TRENCHES & VAULTS** (A utility trench may be omitted from ranking if its invert elevation is more than 5 feet above the water table.)

☐	Impacted	=	500
☒	≤500'	=	50
☐	>500' - 1,000'	=	5
☐	>1,000'	=	2

K. Distance from any Free Product to basements and crawl spaces

☐	Impacted	=	500
☐	<500'	=	50
☐	>500' - 1,000'	=	5
☒	>1,000' or no free product.	=	0

Fill in the blanks: (H. 0) + (I. 0) + (J. 50) + (K. 0) = L. 50

(G. 250) x (L. 50) = M. 12500

(M. 12500) + (D. 250) = N. 12750

P. **SUSCEPTIBILITY AREA MULTIPLIER**

☐ If site is located in a Low Ground-Water Pollution Susceptibility Area = 0.5

☒ All other sites = 1

Q. **EXPLOSION HAZARD**

Have any explosive petroleum vapors, possibly originating from this release, been detected in any subsurface structure (e.g., utility trenches, basements, vaults, crawl spaces, etc.)?

☐ Yes = 200,000

☒ No = 0

Fill in the blanks: (N. 12750) x (P. 1) = (12750) + (Q. 0)

= 12750 (January 2005 – Fourth Semiannual Monitoring Event; associated with the plume in the vicinity of BF-MW-E5, AST 7009)

ENVIRONMENTAL SENSITIVITY SCORE

ADDITIONAL GEOLOGIC AND HYDROGEOLOGIC DATA

The following is presented to provide supplemental information to Item H of the Site Ranking Form and details relating to the geologic and hydrogeologic conditions at Hunter Army Airfield (HAAF), which support HAAF's determination that the water withdrawal points located at the airfield cannot be hydraulically connected to the surficial aquifer.

1.0 REGIONAL GEOLOGY

Southeast Georgia is located within the coastal plain physiographic province of the southeast United States (Clark and Zisa 1976). In this region, the thickness of the southeastward-dipping subsurface strata ranges from 0 ft at the fall line, located approximately 350 miles inland from the Atlantic coast, to approximately 4,200 ft below ground surface (BGS) at the coast. Herrick (1961) provides detailed lithologic descriptions of the stratigraphic units encountered during the installation of water and petroleum exploration wells in Chatham County. The well log of GGS Well 125, located on White Bluff Road, 700 ft west and 0.3 mile north of Buckhalter Road, Savannah, Georgia, provides one of the more complete lithologic descriptions of upper Eocene, Miocene, and Pliocene to Recent sedimentary strata in Chatham County.

The upper Eocene (Ocala Limestone) section of GGS Well 125 is approximately 225 ft thick and dominated by light gray to white fossiliferous limestone. The Miocene section is approximately 250 ft thick and consists of limestone, with a 160-ft-thick cap of dark green phosphatic clay. This clay is regionally extensive and is known to occupy the Coosawatchie Formation of the Hawthorn Group (Furlow 1969; Arora 1984; Huddlestun 1988). The interval from approximately 80 ft to the surface is Pliocene to Recent in age and composed primarily of sand interbedded with clay and silt. This section is occupied by the Satilla and Cypresshead Formations (Huddlestun 1988).

2.0 LOCAL GEOLOGY

HAAF is located within the barrier island sequence district of the coastal plain physiographic province of the southeast United States (Clark and Zisa 1976). The barrier island sequence district in Chatham and Bryan Counties is characterized by the existence of several marine terraces (step-like topographic surfaces that decrease in elevation toward the coast). These marine terraces, and their associated deposits, are the result of sea-level fluctuations that occurred during the Pleistocene epoch. The surficial (Quaternary) deposits in Chatham and Bryan Counties, in decreasing elevation and age, are part of the Okefenokee, Wicomico, Penholoway, Pamlico, and Silver Bluff Terrace Complexes (Wilkes et al. 1974; GA DNR 1976; Huddlestun 1988).

HAAF, as well as most of Chatham County, is underlain by the Pleistocene Pamlico Terrace. The Pleistocene Satilla Formation (formerly known as the Pamlico Formation) consists of deposits of the Pamlico Terrace Complex and other terrace complexes in the region (Huddlestun 1988). The Satilla Formation is a lithologically heterogeneous unit that consists of variably bedded to nonbedded sand and variably bedded silty to sandy clay. During the Pleistocene epoch, these sand and clay deposits were formed in offshore and inner continental shelf, barrier island, and marsh/lagoonal-type environments (Huddlestun 1988). According to the *Geologic Map of Georgia* (GA DNR 1976), clay beds of marsh origin, which were deposited on the northwestern side of the former Pamlico Barrier Island Complex, exist in the western quarter of HAAF. Very fine- to coarse-grained sand deposits of barrier island origin are more common throughout the remaining areas of HAAF.

Based on the coring and sampling of unconsolidated strata at HAAF during the Corrective Action Plan–Part A investigations, it was concluded that all former underground storage tanks (USTs) were buried within the Satilla Formation, which is overlain by various soil types. Soil groups at HAAF include the Chipley, Leon, Ellabelle, Kershaw, Pelham, Albany, Wahee, and Ogeechee (Wilkes et al. 1974).

3.0 REGIONAL AND LOCAL HYDROGEOLOGY

The hydrogeology in the vicinity of HAAF is mostly influenced by two aquifer systems. These are referred to as the Principal Artesian (Floridan) Aquifer and the surficial aquifer (Miller 1990). The Principal Artesian Aquifer is the lowermost hydrologic unit and is regionally extensive from South Carolina through Georgia, Alabama, and most of Florida. Known elsewhere as the Floridan, this aquifer, approximately 800 ft in total thickness, is composed primarily of Tertiary-age limestone, including the Bug Island Formation, Ocala Group, and Suwannee Limestone. Groundwater from the Floridan is used primarily for drinking water (Arora 1984). According to Miller (1990), one of the largest cones of depression produced in the Upper Floridan Aquifer exists directly beneath Savannah, Georgia. Net water-level decline in the Floridan system between the predevelopment period and 1980 exceeded 80 ft beneath Savannah. In addition, according to 1980 estimates, more than 500 million gal of water per day were withdrawn from the Floridan for public and industrial use in southeast Georgia, more than in any other region.

The confining layer for the Principal Artesian (Floridan) Aquifer is the phosphatic clay of the Hawthorn Group. There are minor occurrences of aquifer material within the Hawthorn Group; however, they have limited use (Miller 1990). The surficial aquifer overlies the Hawthorn confining unit.

The surficial aquifer consists of widely varying amounts of sand and clay, ranging from 55 to 150 ft in thickness, and is composed primarily of the Satilla and Cypresshead Formations in the Savannah vicinity (Arora 1984). This aquifer is primarily used for domestic lawn and agricultural irrigation. The top of the water table ranges from approximately 2 to 10 ft BGS (Miller 1990). Groundwater in the surficial aquifer system is under unconfined, or water table, conditions. Locally, however, thin clay beds create confined or semiconfined conditions, as is the case at HAAF where thin, surficial clay beds are present in the western quadrant (GA DNR 1976).

Groundwater encountered at all the UST investigation sites is part of the surficial aquifer system. Based on the fact that all public and nonpublic water supply wells draw water from the Principal Artesian (Floridan) Aquifer and that the Hawthorn confining unit separates the Principal Artesian Aquifer from the surficial aquifer, it is concluded that there is no hydraulic interconnection between the surficial aquifer (and associated groundwater plumes, if applicable) located beneath former UST sites and identified water-supply withdrawal points at HAAF.

4.0 REFERENCES

Arora, Ram 1984. *Hydrologic Evaluation for Underground Injection Control in the Coastal Plain of Georgia*, Department of Natural Resources, Environmental Protection Division, Georgia Geologic Survey.

Clark, W.Z., Jr. and A.C. Zisa 1976. *Physiographic Map of Georgia*, Department of Natural Resources, Environmental Protection Division, Georgia Geologic Survey (reprinted 1988).

Furlow, J.W. 1969. *Stratigraphy and Economic Geology of the Eastern Chatham County Phosphate Deposit, Department of Mines and Mining*, Division of Conservation, Georgia Geologic Survey, Bulletin 82.

GA DNR (Georgia Department of Natural Resources) 1976. *Geologic Map of Georgia*, Department of Natural Resources, Environmental Protection Division, Georgia Geologic Survey (reprinted 1997).

Herrick, S.M. 1961. *Well Logs of the Coastal Plain of Georgia*, Department of Natural Resources, Environmental Protection Division, Georgia Geologic Survey.

Huddlestun, P.F. 1988. *A Revision of the Lithostratigraphic Units of the Coastal Plain of Georgia, The Miocene through Holocene*, Department of Natural Resources, Environmental Protection Division, Georgia Geologic Survey, Bulletin 104.

Miller, James A. 1990. *Groundwater Atlas of the United States*, U. S. Department of the Interior, U. S. Geological Survey, Hydrologic Inventory Atlas 730G.

Wilkes, R.L., J.H. Johnson, H.T. Stoner, and D.D. Bacon 1974. *Soil Survey of Bryan and Chatham Counties, Georgia*, U. S. Department of Agriculture Soil Conservation Service.

APPENDIX V

REIMBURSEMENT APPLICATION

Hunter Army Airfield is a federally owned facility and has funded the investigation for the former Underground Storage Tank (UST) 117 site, Facility ID #9-025113*2, using U. S. Department of Defense Environmental Restoration Account Funds. Application for Georgia UST Trust Fund reimbursement is not being pursued at this time.

ATTACHMENT A

SUMMARY OF FATE AND TRANSPORT MODELING

A.1. FATE AND TRANSPORT MODELING

The Seasonal Soil Compartment Model was used to simulate the vertical transport of contaminants from the source area down through the vadose zone to the shallow groundwater table. The Analytical Transient 1-, 2-, 3-Dimensional Model was used to model contaminant migration to a potential downgradient receptor, an underground storm drain located approximately 120 ft southwest of the site. Benzene and naphthalene were the only two constituents to exceed their respective In-Stream Water Quality Standards (IWQSs) or risk-based screening levels during the Corrective Action Plan (CAP)–Parts A and B investigations. A steady-state source for each constituent was assumed for conservatism, and the source was shut off after a steady-state condition had been achieved.

A.1 SUMMARY OF THE CORRECTIVE ACTION PLAN–PART B REPORT FATE AND TRANSPORT MODELING RESULTS FOR BENZENE

The fate and transport modeling that was conducted as part of the CAP–Part B Report (SAIC 2001) was based on the analytical data collected during the CAP–Parts A and B investigations. The assumption of a continuous source of contamination of infinite duration at the site was based on the maximum observed benzene concentration in groundwater at Release #1 (i.e., 553 µg/L in well BF-MW-22 in December 1999) during the CAP–Parts A and B investigations. The modeling was performed to develop alternate concentration limits (ACLs) for the site. Because benzene was the only volatile organic compound at the site that exceeded its IWQS, an ACL of 634 µg/L was developed for benzene based on a dilution attenuation factor (DAF) of 8.9.

No fate and transport modeling of benzene was preformed with respect to Release #2 because it did not exist during the CAP-Parts A and Part B investigations.

A.2 SUMMARY OF THE CORRECTIVE ACTION PLAN–PART B REPORT FATE AND TRANSPORT MODELING RESULTS FOR NAPHTHALENE

The fate and transport modeling that was conducted as part of the CAP–Part B Report (SAIC 2001) was based on the analytical data collected during the CAP–Parts A and B investigations. The assumption of a continuous source of contamination of infinite duration at the site was based on the maximum observed naphthalene concentration in groundwater at Release #1 (i.e., 528 µg/L in well BF-MW-22 in December 2000) during the CAP–Parts A and B investigations. The modeling was performed to develop ACLs for the site. Because naphthalene was the only polynuclear aromatic hydrocarbon at the site that exceeded its risk-based screening level, an ACL of 820 µg/L was developed for naphthalene based on a DAF of 126.3.

No fate and transport modeling of benzene was preformed with respect to Release #2 because it did not exist during the CAP-Parts A and Part B investigations.

A.3 CONCLUSIONS BASED ON FATE AND TRANSPORT MODELING RESULTS

The conclusions below are based on fate and transport modeling of analytical data collected during the CAP–Parts A and B investigations and assuming a steady-state source at the site. The fate and transport modeling results associated with Release #1 are applicable to Release #2 because of the similar proximity of the closest receptor and the concentrations for Release #1 are much higher than Release #2.

- Benzene concentrations in groundwater associated with Release #2 did not exceed the benzene ACL of 624 μg/L or the IW QS of 71.28 μg/L in July 2004 or January 2005, respectively.

- Naphthalene concentrations in groundwater associated with Release #2 did not exceed the naphthalene ACL of 820 μg/L in July 2004 or January 2005.

- Fate and transport modeling for Release #2 has not been performed due to the very low benzene and naphthalene concentrations.

A.4 REFERENCES

SAIC (Science Applications International Corporation) 2001. *Corrective Action Plan–Part B Report for Former Underground Storage Tank 117, Building 7002, Facility ID 9-025113*1, Bulk Fuel Facility (HAA-09), Hunter Army Airfield, Georgia,* July.

ATTACHMENT B

REFERENCES

REFERENCES

Lewis, Lisa L. 2003. Letter Thomas C. Fry (Fort Stewart Directorate of Public Works Environmental Branch), October 6.

SAIC (Science Applications International Corporation) 1999. *Soil Gas Survey Report for the Bulk Fuel Facility (HAA-09) at Hunter Army Airfield, Georgia*, November.

SAIC 2000. *Corrective Action Plan–Part A Report for Former Underground Storage Tank 117, Building 7002, Facility ID 9-025113*1, Bulk Fuel Facility (HAA-09), Hunter Army Airfield, Georgia,* June.

SAIC 2001. *Corrective Action Plan–Part B Report for Former Underground Storage Tank 117, Building 7002, Facility ID 9-025113*1, Bulk Fuel Facility (HAA-09), Hunter Army Airfield, Georgia,* July.

SAIC 2003. *First Annual Monitoring Only Report for Former Underground Storage Tank 117, Building 7002, Facility ID 9-025113*1, Bulk Fuel Facility (HAA-09), Hunter Army Airfield, Georgia,* July.

ATTACHMENT C

CERTIFICATES OF ANALYSIS

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF0452
Sample ID: 117167014
Matrix: Water
Collect Date: 16-JUL-04 12:25
Receive Date: 19-JUL-04
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid											
2-Chloronaphthalene	U	ND	0.404	1.01	ug/L	1	JWF	07/21/04	2224	350446	1
2-Methylnaphthalene	U	ND	0.505	1.01	ug/L	1					
Acenaphthene	U	ND	0.505	1.01	ug/L	1					
Acenaphthylene	U	ND	0.505	1.01	ug/L	1					
Anthracene	U	ND	0.505	1.01	ug/L	1					
Benzo(a)anthracene	U	ND	0.505	1.01	ug/L	1					
Benzo(a)pyrene	U	ND	0.505	1.01	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.505	1.01	ug/L	1					
Benzo(ghi)perylene	U	ND	0.505	1.01	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.505	1.01	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.505	1.01	ug/L	1					
Fluoranthene	U	ND	0.505	1.01	ug/L	1					
Fluorene	U	ND	0.505	1.01	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.505	1.01	ug/L	1					
Naphthalene	U	ND	0.111	1.01	ug/L	1					
Phenanthrene	U	ND	0.505	1.01	ug/L	1					
Pyrene	U	ND	0.505	1.01	ug/L	1					
Volatile Organics Federal											
5035/8260B BTEX in Liquid Federal											
Benzene	U	ND	0.330	1.00	ug/L	1	DLS	07/30/04	0341	353417	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Toluene	J	0.642	0.390	1.00	ug/L	1					
Xylenes (total)	U	ND	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	JPB	07/20/04	1457	350445

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	70	(46%-97%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid	81	(47%-110%)

GENERAL ENGINEERING LABORATORIES, LLC
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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF0452
Sample ID: 117167014

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			69	(56%-133%)					
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			86	(76%-115%)					
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			102	(72%-136%)					
Toluene-d8		5035/8260B BTEX in Liquid Federal			90	(80%-116%)					

Notes:
The Qualifiers in this report are defined as follows :

B Target analyte was detected in the sample as well as the associated blank.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF2552
Sample ID: 117167013
Matrix: Water
Collect Date: 16-JUL-04 14:56
Receive Date: 19-JUL-04
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid											
2-Chloronaphthalene	U	ND	0.396	0.990	ug/L	1	JWF	07/21/04	2201	350446	1
2-Methylnaphthalene	J	0.597	0.495	0.990	ug/L	1					
Acenaphthene	U	ND	0.495	0.990	ug/L	1					
Acenaphthylene	U	ND	0.495	0.990	ug/L	1					
Anthracene	U	ND	0.495	0.990	ug/L	1					
Benzo(a)anthracene	U	ND	0.495	0.990	ug/L	1					
Benzo(a)pyrene	U	ND	0.495	0.990	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.495	0.990	ug/L	1					
Benzo(ghi)perylene	U	ND	0.495	0.990	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.495	0.990	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.495	0.990	ug/L	1					
Fluoranthene	U	ND	0.495	0.990	ug/L	1					
Fluorene	U	ND	0.495	0.990	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.495	0.990	ug/L	1					
Naphthalene	J	0.557	0.109	0.990	ug/L	1					
Phenanthrene	U	ND	0.495	0.990	ug/L	1					
Pyrene	U	ND	0.495	0.990	ug/L	1					
Volatile Organics Federal											
5035/8260B BTEX in Liquid Federal											
Benzene	U	ND	0.330	1.00	ug/L	1	DLS	07/30/04	0314	353417	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Toluene	J	0.601	0.390	1.00	ug/L	1					
Xylenes (total)	U	ND	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	JPB	07/20/04	1457	350445

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	64	(46%-97%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid	71	(47%-110%)

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Report Date: August 30, 2004

Contact: Ms. Leslie Barbour

Project: **Hunter Army Airfield LTM**

Client Sample ID: BF2552
Sample ID: 117167013

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			69		(56%-133%)			
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			87		(76%-115%)			
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			101		(72%-136%)			
Toluene-d8		5035/8260B BTEX in Liquid Federal			94		(80%-116%)			

Notes:
The Qualifiers in this report are defined as follows :

B Target analyte was detected in the sample as well as the associated blank.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

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Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF2652
Sample ID: 117167012
Matrix: Water
Collect Date: 16-JUL-04 14:10
Receive Date: 19-JUL-04
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid											
2-Chloronaphthalene	U	ND	0.426	1.06	ug/L	1	JWF	07/21/04	2139	350446	1
2-Methylnaphthalene	J	0.658	0.532	1.06	ug/L	1					
Acenaphthene	U	ND	0.532	1.06	ug/L	1					
Acenaphthylene	U	ND	0.532	1.06	ug/L	1					
Anthracene	U	ND	0.532	1.06	ug/L	1					
Benzo(a)anthracene	U	ND	0.532	1.06	ug/L	1					
Benzo(a)pyrene	U	ND	0.532	1.06	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.532	1.06	ug/L	1					
Benzo(ghi)perylene	U	ND	0.532	1.06	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.532	1.06	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.532	1.06	ug/L	1					
Fluoranthene	U	ND	0.532	1.06	ug/L	1					
Fluorene	U	ND	0.532	1.06	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.532	1.06	ug/L	1					
Naphthalene	J	0.654	0.117	1.06	ug/L	1					
Phenanthrene	U	ND	0.532	1.06	ug/L	1					
Pyrene	U	ND	0.532	1.06	ug/L	1					
Volatile Organics Federal											
5035/8260B BTEX in Liquid Federal											
Benzene	U	ND	0.330	1.00	ug/L	1	DLS	07/30/04	0247	353417	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Toluene	J	0.467	0.390	1.00	ug/L	1					
Xylenes (total)	U	ND	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	JPB	07/20/04	1457	350445

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	61	(46%-97%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid	68	(47%-110%)

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour

Project: **Hunter Army Airfield LTM**

Client Sample ID: BF2652
Sample ID: 117167012

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			91		(56%-133%)			
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			84		(76%-115%)			
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			98		(72%-136%)			
Toluene-d8		5035/8260B BTEX in Liquid Federal			91		(80%-116%)			

Notes:
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E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF2656
Sample ID: 117167003
Matrix: Water
Collect Date: 16-JUL-04 13:36
Receive Date: 19-JUL-04
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid											
2-Chloronaphthalene	U	ND	0.388	0.971	ug/L	1	JWF	07/21/04	1821	350446	1
2-Methylnaphthalene	U	ND	0.485	0.971	ug/L	1					
Acenaphthene	U	ND	0.485	0.971	ug/L	1					
Acenaphthylene	U	ND	0.485	0.971	ug/L	1					
Anthracene	U	ND	0.485	0.971	ug/L	1					
Benzo(a)anthracene	U	ND	0.485	0.971	ug/L	1					
Benzo(a)pyrene	U	ND	0.485	0.971	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.485	0.971	ug/L	1					
Benzo(ghi)perylene	U	ND	0.485	0.971	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.485	0.971	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.485	0.971	ug/L	1					
Fluoranthene	U	ND	0.485	0.971	ug/L	1					
Fluorene	U	ND	0.485	0.971	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.485	0.971	ug/L	1					
Naphthalene	U	ND	0.107	0.971	ug/L	1					
Phenanthrene	U	ND	0.485	0.971	ug/L	1					
Pyrene	U	ND	0.485	0.971	ug/L	1					
Volatile Organics Federal											
5035/8260B BTEX in Liquid Federal											
Benzene	U	ND	0.330	1.00	ug/L	1	DLS	07/30/04	0153	353417	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Toluene	J	0.531	0.390	1.00	ug/L	1					
Xylenes (total)	U	ND	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	JPB	07/20/04	1457	350445

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	72	(46%-97%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid	85	(47%-110%)

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF2656
Sample ID: 117167003

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			95		(56%-133%)			
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			90		(76%-115%)			
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			99		(72%-136%)			
Toluene-d8		5035/8260B BTEX in Liquid Federal			94		(80%-116%)			

Notes:
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E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour

Project: **Hunter Army Airfield LTM**

Client Sample ID: BF2752
Sample ID: 117167002
Matrix: Water
Collect Date: 16-JUL-04 10:05
Receive Date: 19-JUL-04
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid											
2-Chloronaphthalene	U	ND	0.385	0.962	ug/L	1	JWF	07/21/04	1759	350446	1
2-Methylnaphthalene	U	ND	0.481	0.962	ug/L	1					
Acenaphthene	U	ND	0.481	0.962	ug/L	1					
Acenaphthylene	U	ND	0.481	0.962	ug/L	1					
Anthracene	U	ND	0.481	0.962	ug/L	1					
Benzo(a)anthracene	U	ND	0.481	0.962	ug/L	1					
Benzo(a)pyrene	U	ND	0.481	0.962	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.481	0.962	ug/L	1					
Benzo(ghi)perylene	U	ND	0.481	0.962	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.481	0.962	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.481	0.962	ug/L	1					
Fluoranthene	U	ND	0.481	0.962	ug/L	1					
Fluorene	U	ND	0.481	0.962	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.481	0.962	ug/L	1					
Naphthalene	U	ND	0.106	0.962	ug/L	1					
Phenanthrene	U	ND	0.481	0.962	ug/L	1					
Pyrene	U	ND	0.481	0.962	ug/L	1					
Volatile Organics Federal											
5035/8260B BTEX in Liquid Federal											
Benzene	U	ND	0.330	1.00	ug/L	1	DLS	07/30/04	0126	353417	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Toluene	J	0.439	0.390	1.00	ug/L	1					
Xylenes (total)	U	ND	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	JPB	07/20/04	1457	350445

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	63	(46%-97%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid	72	(47%-110%)

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF2752
Sample ID: 117167002

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			57		(56%-133%)			
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			92		(76%-115%)			
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			104		(72%-136%)			
Toluene-d8		5035/8260B BTEX in Liquid Federal			95		(80%-116%)			

Notes:
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E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour

Project: **Hunter Army Airfield LTM**

Client Sample ID: BF3552
Sample ID: 117167015
Matrix: Water
Collect Date: 17-JUL-04 09:31
Receive Date: 19-JUL-04
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid											
2-Chloronaphthalene	U	ND	0.404	1.01	ug/L	1	JWF	07/21/04	2246	350446	1
2-Methylnaphthalene	U	ND	0.505	1.01	ug/L	1					
Acenaphthene	U	ND	0.505	1.01	ug/L	1					
Acenaphthylene	U	ND	0.505	1.01	ug/L	1					
Anthracene	U	ND	0.505	1.01	ug/L	1					
Benzo(a)anthracene	U	ND	0.505	1.01	ug/L	1					
Benzo(a)pyrene	U	ND	0.505	1.01	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.505	1.01	ug/L	1					
Benzo(ghi)perylene	U	ND	0.505	1.01	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.505	1.01	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.505	1.01	ug/L	1					
Fluoranthene	U	ND	0.505	1.01	ug/L	1					
Fluorene	U	ND	0.505	1.01	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.505	1.01	ug/L	1					
Naphthalene	U	ND	0.111	1.01	ug/L	1					
Phenanthrene	U	ND	0.505	1.01	ug/L	1					
Pyrene	U	ND	0.505	1.01	ug/L	1					
Volatile Organics Federal											
5035/8260B BTEX in Liquid Federal											
Benzene	U	ND	0.330	1.00	ug/L	1	DLS	07/30/04	0407	353417	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Toluene	J	0.592	0.390	1.00	ug/L	1					
Xylenes (total)	U	ND	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	JPB	07/20/04	1457	350445

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	73	(46%-97%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid	83	(47%-110%)

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF3552
Sample ID: 117167015

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			69		(56%-133%)			
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			83		(76%-115%)			
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			102		(72%-136%)			
Toluene-d8		5035/8260B BTEX in Liquid Federal			93		(80%-116%)			

Notes:
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B Target analyte was detected in the sample as well as the associated blank.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF3652
Sample ID: 117167001
Matrix: Water
Collect Date: 17-JUL-04 10:30
Receive Date: 19-JUL-04
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid											
2-Chloronaphthalene	U	ND	0.392	0.980	ug/L	1	JWF	07/21/04	1652	350446	1
2-Methylnaphthalene	U	ND	0.490	0.980	ug/L	1					
Acenaphthene	U	ND	0.490	0.980	ug/L	1					
Acenaphthylene	U	ND	0.490	0.980	ug/L	1					
Anthracene	U	ND	0.490	0.980	ug/L	1					
Benzo(a)anthracene	U	ND	0.490	0.980	ug/L	1					
Benzo(a)pyrene	U	ND	0.490	0.980	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.490	0.980	ug/L	1					
Benzo(ghi)perylene	U	ND	0.490	0.980	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.490	0.980	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.490	0.980	ug/L	1					
Fluoranthene	U	ND	0.490	0.980	ug/L	1					
Fluorene	U	ND	0.490	0.980	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.490	0.980	ug/L	1					
Naphthalene	U	ND	0.108	0.980	ug/L	1					
Phenanthrene	U	ND	0.490	0.980	ug/L	1					
Pyrene	U	ND	0.490	0.980	ug/L	1					
Volatile Organics Federal											
5035/8260B BTEX in Liquid Federal											
Benzene	U	ND	0.330	1.00	ug/L	1	DLS	07/30/04	0059	353417	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Toluene	J	0.487	0.390	1.00	ug/L	1					
Xylenes (total)	U	ND	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	JPB	07/20/04	1457	350445

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	76	(46%-97%)

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF3652
Sample ID: 117167001

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Nitrobenzene-d5		3510/8270 PAH Extend list Liquid			92		(47%-110%)			
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			74		(56%-133%)			
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			89		(76%-115%)			
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			104		(72%-136%)			
Toluene-d8		5035/8260B BTEX in Liquid Federal			95		(80%-116%)			

Notes:
The Qualifiers in this report are defined as follows :

B Target analyte was detected in the sample as well as the associated blank.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

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Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF3752
Sample ID: 117167004
Matrix: Water
Collect Date: 17-JUL-04 10:00
Receive Date: 19-JUL-04
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid											
2-Chloronaphthalene	U	ND	0.412	1.03	ug/L	1	JWF	07/21/04	1843	350446	1
2-Methylnaphthalene	U	ND	0.515	1.03	ug/L	1					
Acenaphthene	U	ND	0.515	1.03	ug/L	1					
Acenaphthylene	U	ND	0.515	1.03	ug/L	1					
Anthracene	U	ND	0.515	1.03	ug/L	1					
Benzo(a)anthracene	U	ND	0.515	1.03	ug/L	1					
Benzo(a)pyrene	U	ND	0.515	1.03	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.515	1.03	ug/L	1					
Benzo(ghi)perylene	U	ND	0.515	1.03	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.515	1.03	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.515	1.03	ug/L	1					
Fluoranthene	U	ND	0.515	1.03	ug/L	1					
Fluorene	U	ND	0.515	1.03	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.515	1.03	ug/L	1					
Naphthalene	U	ND	0.113	1.03	ug/L	1					
Phenanthrene	U	ND	0.515	1.03	ug/L	1					
Pyrene	U	ND	0.515	1.03	ug/L	1					
Volatile Organics Federal											
5035/8260B BTEX in Liquid Federal											
Benzene	U	ND	0.330	1.00	ug/L	1	DLS	07/30/04	0220	353417	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Toluene	U	ND	0.390	1.00	ug/L	1					
Xylenes (total)	U	ND	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	JPB	07/20/04	1457	350445

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	76	(46%-97%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid	92	(47%-110%)

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF3752
Sample ID: 117167004

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			75		(56%-133%)				
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			91		(76%-115%)				
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			102		(72%-136%)				
Toluene-d8		5035/8260B BTEX in Liquid Federal			89		(80%-116%)				

Notes:
The Qualifiers in this report are defined as follows :

B Target analyte was detected in the sample as well as the associated blank.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE152
Sample ID: 117167011
Matrix: Water
Collect Date: 16-JUL-04 15:00
Receive Date: 19-JUL-04
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid											
2-Chloronaphthalene	U	ND	0.408	1.02	ug/L	1	JWF	07/21/04	2117	350446	1
2-Methylnaphthalene	U	ND	0.510	1.02	ug/L	1					
Acenaphthene		2.75	0.510	1.02	ug/L	1					
Acenaphthylene	U	ND	0.510	1.02	ug/L	1					
Anthracene	U	ND	0.510	1.02	ug/L	1					
Benzo(a)anthracene	U	ND	0.510	1.02	ug/L	1					
Benzo(a)pyrene	U	ND	0.510	1.02	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.510	1.02	ug/L	1					
Benzo(ghi)perylene	U	ND	0.510	1.02	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.510	1.02	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.510	1.02	ug/L	1					
Fluoranthene	U	ND	0.510	1.02	ug/L	1					
Fluorene		5.66	0.510	1.02	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.510	1.02	ug/L	1					
Naphthalene	U	ND	0.112	1.02	ug/L	1					
Phenanthrene		5.76	0.510	1.02	ug/L	1					
Pyrene	U	ND	0.510	1.02	ug/L	1					
Volatile Organics Federal											
5035/8260B BTEX in Liquid Federal											
Benzene	U	ND	0.330	1.00	ug/L	1	SHJ	07/30/04	1859	353417	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Toluene	J	0.617	0.390	1.00	ug/L	1					
Xylenes (total)	U	ND	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	JPB	07/20/04	1457	350445

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	78	(46%-97%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid	89	(47%-110%)

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE152
Sample ID: 117167011

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			74		(56%-133%)			
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			100		(76%-115%)			
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			98		(72%-136%)			
Toluene-d8		5035/8260B BTEX in Liquid Federal			107		(80%-116%)			

Notes:
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E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour

Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE252
Sample ID: 117167010
Matrix: Water
Collect Date: 16-JUL-04 14:00
Receive Date: 19-JUL-04
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid											
2-Chloronaphthalene	U	ND	0.412	1.03	ug/L	1	JWF	07/21/04	2055	350446	1
2-Methylnaphthalene	U	ND	0.515	1.03	ug/L	1					
Acenaphthene	U	ND	0.515	1.03	ug/L	1					
Acenaphthylene	U	ND	0.515	1.03	ug/L	1					
Anthracene	U	ND	0.515	1.03	ug/L	1					
Benzo(a)anthracene	U	ND	0.515	1.03	ug/L	1					
Benzo(a)pyrene	U	ND	0.515	1.03	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.515	1.03	ug/L	1					
Benzo(ghi)perylene	U	ND	0.515	1.03	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.515	1.03	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.515	1.03	ug/L	1					
Fluoranthene	U	ND	0.515	1.03	ug/L	1					
Fluorene	U	ND	0.515	1.03	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.515	1.03	ug/L	1					
Naphthalene	U	ND	0.113	1.03	ug/L	1					
Phenanthrene	U	ND	0.515	1.03	ug/L	1					
Pyrene	U	ND	0.515	1.03	ug/L	1					
Volatile Organics Federal											
5035/8260B BTEX in Liquid Federal											
Benzene	U	ND	0.330	1.00	ug/L	1	DLS	07/29/04	2122	353417	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Toluene	J	0.551	0.390	1.00	ug/L	1					
Xylenes (total)	U	ND	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	JPB	07/20/04	1457	350445

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	83	(46%-97%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid	96	(47%-110%)

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE252
Sample ID: 117167010

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			85		(56%-133%)			
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			90		(76%-115%)			
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			101		(72%-136%)			
Toluene-d8		5035/8260B BTEX in Liquid Federal			91		(80%-116%)			

Notes:
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H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE254
Sample ID: 117167009
Matrix: Water
Collect Date: 16-JUL-04 14:00
Receive Date: 19-JUL-04
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid											
2-Chloronaphthalene	U	ND	0.404	1.01	ug/L	1	JWF	07/21/04	2033	350446	1
2-Methylnaphthalene	U	ND	0.505	1.01	ug/L	1					
Acenaphthene	U	ND	0.505	1.01	ug/L	1					
Acenaphthylene	U	ND	0.505	1.01	ug/L	1					
Anthracene	U	ND	0.505	1.01	ug/L	1					
Benzo(a)anthracene	U	ND	0.505	1.01	ug/L	1					
Benzo(a)pyrene	U	ND	0.505	1.01	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.505	1.01	ug/L	1					
Benzo(ghi)perylene	U	ND	0.505	1.01	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.505	1.01	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.505	1.01	ug/L	1					
Fluoranthene	U	ND	0.505	1.01	ug/L	1					
Fluorene	U	ND	0.505	1.01	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.505	1.01	ug/L	1					
Naphthalene	U	ND	0.111	1.01	ug/L	1					
Phenanthrene	U	ND	0.505	1.01	ug/L	1					
Pyrene	U	ND	0.505	1.01	ug/L	1					
Volatile Organics Federal											
5035/8260B BTEX in Liquid Federal											
Benzene	U	ND	0.330	1.00	ug/L	1	DLS	07/29/04	2055	353417	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Toluene	J	0.496	0.390	1.00	ug/L	1					
Xylenes (total)	U	ND	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	JPB	07/20/04	1457	350445

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	72	(46%-97%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid	83	(47%-110%)

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Company : SAIC
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Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE254
Sample ID: 117167009

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			76		(56%-133%)			
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			94		(76%-115%)			
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			96		(72%-136%)			
Toluene-d8		5035/8260B BTEX in Liquid Federal			94		(80%-116%)			

Notes:
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B Target analyte was detected in the sample as well as the associated blank.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE352
Sample ID: 117167007
Matrix: Water
Collect Date: 16-JUL-04 13:10
Receive Date: 19-JUL-04
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid											
2-Chloronaphthalene	U	ND	0.412	1.03	ug/L	1	JWF	07/21/04	1949	350446	1
2-Methylnaphthalene	U	ND	0.515	1.03	ug/L	1					
Acenaphthene	U	ND	0.515	1.03	ug/L	1					
Acenaphthylene	U	ND	0.515	1.03	ug/L	1					
Anthracene	U	ND	0.515	1.03	ug/L	1					
Benzo(a)anthracene	U	ND	0.515	1.03	ug/L	1					
Benzo(a)pyrene	U	ND	0.515	1.03	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.515	1.03	ug/L	1					
Benzo(ghi)perylene	U	ND	0.515	1.03	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.515	1.03	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.515	1.03	ug/L	1					
Fluoranthene	U	ND	0.515	1.03	ug/L	1					
Fluorene	U	ND	0.515	1.03	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.515	1.03	ug/L	1					
Naphthalene	U	ND	0.113	1.03	ug/L	1					
Phenanthrene	U	ND	0.515	1.03	ug/L	1					
Pyrene	U	ND	0.515	1.03	ug/L	1					
Volatile Organics Federal											
5035/8260B BTEX in Liquid Federal											
Benzene	U	ND	0.330	1.00	ug/L	1	SHJ	07/30/04	1831	353417	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Toluene	J	0.596	0.390	1.00	ug/L	1					
Xylenes (total)	U	ND	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	JPB	07/20/04	1457	350445

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	81	(46%-97%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid	95	(47%-110%)

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour

Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE352
Sample ID: 117167007

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			95		(56%-133%)			
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			96		(76%-115%)			
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			97		(72%-136%)			
Toluene-d8		5035/8260B BTEX in Liquid Federal			101		(80%-116%)			

Notes:
The Qualifiers in this report are defined as follows :

B Target analyte was detected in the sample as well as the associated blank.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

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Valerie Davis

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Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE452
Sample ID: 117167005
Matrix: Water
Collect Date: 16-JUL-04 12:15
Receive Date: 19-JUL-04
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid											
2-Chloronaphthalene	U	ND	0.388	0.971	ug/L	1	JWF	07/21/04	1905	350446	1
2-Methylnaphthalene	J	0.640	0.485	0.971	ug/L	1					
Acenaphthene	U	ND	0.485	0.971	ug/L	1					
Acenaphthylene	U	ND	0.485	0.971	ug/L	1					
Anthracene	U	ND	0.485	0.971	ug/L	1					
Benzo(a)anthracene	U	ND	0.485	0.971	ug/L	1					
Benzo(a)pyrene	U	ND	0.485	0.971	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.485	0.971	ug/L	1					
Benzo(ghi)perylene	U	ND	0.485	0.971	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.485	0.971	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.485	0.971	ug/L	1					
Fluoranthene	U	ND	0.485	0.971	ug/L	1					
Fluorene	U	ND	0.485	0.971	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.485	0.971	ug/L	1					
Naphthalene	J	0.490	0.107	0.971	ug/L	1					
Phenanthrene	U	ND	0.485	0.971	ug/L	1					
Pyrene	U	ND	0.485	0.971	ug/L	1					
Volatile Organics Federal											
5035/8260B BTEX in Liquid Federal											
Benzene	U	ND	0.330	1.00	ug/L	1	DLS	07/29/04	1908	353417	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Toluene	J	0.480	0.390	1.00	ug/L	1					
Xylenes (total)	U	ND	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	JPB	07/20/04	1457	350445

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	71	(46%-97%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid	80	(47%-110%)

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE452
Sample ID: 117167005

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			83		(56%-133%)			
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			87		(76%-115%)			
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			100		(72%-136%)			
Toluene-d8		5035/8260B BTEX in Liquid Federal			93		(80%-116%)			

Notes:
The Qualifiers in this report are defined as follows :

B Target analyte was detected in the sample as well as the associated blank.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE552
Sample ID: 117167006
Matrix: Water
Collect Date: 16-JUL-04 15:40
Receive Date: 19-JUL-04
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid											
2-Chloronaphthalene	U	ND	0.408	1.02	ug/L	1	JWF	07/21/04	1927	350446	1
2-Methylnaphthalene		8.42	0.510	1.02	ug/L	1					
Acenaphthene		1.64	0.510	1.02	ug/L	1					
Acenaphthylene	U	ND	0.510	1.02	ug/L	1					
Anthracene	U	ND	0.510	1.02	ug/L	1					
Benzo(a)anthracene	U	ND	0.510	1.02	ug/L	1					
Benzo(a)pyrene	U	ND	0.510	1.02	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.510	1.02	ug/L	1					
Benzo(ghi)perylene	U	ND	0.510	1.02	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.510	1.02	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.510	1.02	ug/L	1					
Fluoranthene	U	ND	0.510	1.02	ug/L	1					
Fluorene		2.56	0.510	1.02	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.510	1.02	ug/L	1					
Naphthalene		17.3	0.112	1.02	ug/L	1					
Phenanthrene	J	0.574	0.510	1.02	ug/L	1					
Pyrene	U	ND	0.510	1.02	ug/L	1					
Volatile Organics Federal											
5035/8260B BTEX in Liquid Federal											
Benzene		1.98	0.330	1.00	ug/L	1	DLS	07/29/04	1935	353417	2
Ethylbenzene		17.3	0.210	1.00	ug/L	1					
Toluene	U	ND	0.390	1.00	ug/L	1					
Xylenes (total)		42.7	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	JPB	07/20/04	1457	350445

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	70	(46%-97%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid	83	(47%-110%)

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE552
Sample ID: 117167006

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			67		(56%-133%)			
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			83		(76%-115%)			
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			105		(72%-136%)			
Toluene-d8		5035/8260B BTEX in Liquid Federal			94		(80%-116%)			

Notes:
The Qualifiers in this report are defined as follows :

B Target analyte was detected in the sample as well as the associated blank.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE652
Sample ID: 117167008
Matrix: Water
Collect Date: 16-JUL-04 11:25
Receive Date: 19-JUL-04
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid											
2-Chloronaphthalene	U	ND	0.408	1.02	ug/L	1	JWF	07/21/04	2011	350446	1
2-Methylnaphthalene	U	ND	0.510	1.02	ug/L	1					
Acenaphthene	U	ND	0.510	1.02	ug/L	1					
Acenaphthylene	U	ND	0.510	1.02	ug/L	1					
Anthracene	U	ND	0.510	1.02	ug/L	1					
Benzo(a)anthracene	U	ND	0.510	1.02	ug/L	1					
Benzo(a)pyrene	U	ND	0.510	1.02	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.510	1.02	ug/L	1					
Benzo(ghi)perylene	U	ND	0.510	1.02	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.510	1.02	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.510	1.02	ug/L	1					
Fluoranthene	U	ND	0.510	1.02	ug/L	1					
Fluorene	U	ND	0.510	1.02	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.510	1.02	ug/L	1					
Naphthalene	U	ND	0.112	1.02	ug/L	1					
Phenanthrene	U	ND	0.510	1.02	ug/L	1					
Pyrene	U	ND	0.510	1.02	ug/L	1					
Volatile Organics Federal											
5035/8260B BTEX in Liquid Federal											
Benzene	U	ND	0.330	1.00	ug/L	1	DLS	07/29/04	2028	353417	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Toluene	J	0.663	0.390	1.00	ug/L	1					
Xylenes (total)	U	ND	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	JPB	07/20/04	1457	350445

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	74	(46%-97%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid	83	(47%-110%)

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE652
Sample ID: 117167008

Proiect: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			70		(56%-133%)			
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			87		(76%-115%)			
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			102		(72%-136%)			
Toluene-d8		5035/8260B BTEX in Liquid Federal			97		(80%-116%)			

Notes:
The Qualifiers in this report are defined as follows :

B Target analyte was detected in the sample as well as the associated blank.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

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Valerie Davis
Reviewed by

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: TH0401
Sample ID: 117169001
Matrix: Water
Collect Date: 16-JUL-04 07:45
Receive Date: 19-JUL-04
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Volatile Organics Federal											
5035/8260B BTEX in Liquid Federal											
Benzene	U	ND	0.330	1.00	ug/L	1	DLS	07/30/04	0434	353426	1
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Toluene	U	ND	0.390	1.00	ug/L	1					
Xylenes (total)	U	ND	0.250	1.00	ug/L	1					

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	5035/8260B BTEX in Liquid Federal	91	(76%-115%)
Dibromofluoromethane	5035/8260B BTEX in Liquid Federal	103	(72%-136%)
Toluene-d8	5035/8260B BTEX in Liquid Federal	89	(80%-116%)

Notes:
The Qualifiers in this report are defined as follows :

B Target analyte was detected in the sample as well as the associated blank.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: TH0401
Sample ID: 117169001

Proiect: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: TH0402
Sample ID: 117169011
Matrix: Water
Collect Date: 17-JUL-04 07:45
Receive Date: 19-JUL-04
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Volatile Organics Federal											
5035/8260B BTEX in Liquid Federal											
Benzene	U	ND	0.330	1.00	ug/L	1	DLS	07/31/04	1119	353426	1
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Toluene	J	0.802	0.390	1.00	ug/L	1					
Xylenes (total)	U	ND	0.250	1.00	ug/L	1					

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	5035/8260B BTEX in Liquid Federal	98	(76%-115%)
Dibromofluoromethane	5035/8260B BTEX in Liquid Federal	98	(72%-136%)
Toluene-d8	5035/8260B BTEX in Liquid Federal	101	(80%-116%)

Notes:
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B Target analyte was detected in the sample as well as the associated blank.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 30, 2004

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: TH0402
Sample ID: 117169011

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

SAIC An Employee-Owned Company
Science Applications International Corporation
PO Box 2501, 151 Lafayette Dr., Tennessee 37830 (423) 481-4600

CHAIN OF CUSTODY RECORD

COC NO.: HLTM46

PROJECT NAME: HAAF Long Term Monitoring, D.O. 44

PROJECT NUMBER: 01-1055-04-8991-200

PROJECT MANAGER: ~~Patty Stoll~~ Sharon Stoller

Sampler (Signature): P A Stoll (Printed Name): PATRICIA A. STOLL

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX	VOC	PAH	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
BF2552	7/16/04	1456	water			2	2		
BF0452	"	1225	"			2	2		
BF2652	"	1410	"			2	2		
BFE252	"	1400	"			2	2		
BFE652	"	1125	"			2	2		
BF3552	7/17/04	931	"			2	2		

REQUESTED PARAMETERS

P A Stoll 7/19/04

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
P A Stoll	7/19/04 1140	D Chandler	7/19/04 1430
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RECEIVED BY: P Chandler	Date/Time 7/19/04 1140	RELINQUISHED BY:	Date/Time
COMPANY NAME: GEL		COMPANY NAME:	
RELINQUISHED BY: P Chandler	Date/Time 7/19/04 1430	RECEIVED BY:	Date/Time
COMPANY NAME: GEL		COMPANY NAME:	

TOTAL NUMBER OF CONTAINERS: 12

Cooler ID: 303

Cooler Temperature: 4°C

FEDEX NUMBER: N/A

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Science Applications International Corporation
PO Box 2501, 151 Lafayette Dr., Tennessee 37830 (423) 481-4600

CHAIN OF CUSTODY RECORD

COC NO.: HLTM 41

PROJECT NAME: HAAF Long Term Monitoring, D.O. 44

PROJECT NUMBER: 01-1055-04-8991-200

PROJECT MANAGER: ~~Patty Stoll~~ Sharon Stoller

Sampler (Signature) P Stoll (Printed Name) PATRICIA A. STOLL

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX	VOC	PAH	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
BFE254	7/16/04	1400	water			2	2		
BFE352	7/16/04	1310				2	2		
BF3752	7/17/04	1000				2	2		
BFE552	7/16/04	1540				2	2		
BFE452	7/16/04	1215				2	2		
BFE152	7/16/04	1500				2	2		

REQUESTED PARAMETERS

P Stoll 7/19/04

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 12	Cooler Temperature: 4°C
P Stoll	7/19/04 1140		7/19/04 1430	Cooler ID: 22	FEDEX NUMBER: N/A
COMPANY NAME: SAIC		COMPANY NAME: GEL			
RECEIVED BY:	Date/Time	RELINQUISHED BY:	Date/Time		
COMPANY NAME: GEL	7/19/04 1140	COMPANY NAME:			
RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time		
COMPANY NAME: GEL	7/19/04 1430	COMPANY NAME:			

117167, 117169

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Science Applications International Corporation
PO Box 2501, 151 Lafayette Dr., Tennessee 37830 (423) 481-4600

CHAIN OF CUSTODY RECORD

COC NO.: HLTM42

PROJECT NAME: HAAF Long Term Monitoring, D.O. 44

PROJECT NUMBER: 01-1055-04-8991-200

PROJECT MANAGER: ~~Patty Stoll~~ Sharon Stolla

Sampler (Signature) Patricia A Stoll **(Printed Name)** PATRICIA A. STOLL

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843) 556-8171

REQUESTED PARAMETERS

	Sample ID	Date Collected	Time Collected	Matrix	BTEX	VOC	PAH	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
001	BF3652	7/17/04	1030	water	2		2	4		
002	BF2752	7/16/04	1005		2		2	4		
003	BF2656	7/16/04	1336		2		2	4		
004	BF3752	7/17/04	1000		2			2		
005	BFE452	7/16/04	1215		2			2		
006	BFE552	7/16/04	1540		2			2		
007	BFE352	7/16/04	1310		2			2		
008	BFE652	7/16/04	1125		2			2		
009	BFE254	7/16/04	1400		2			2		
010	BFE252	7/16/04	1400		2			2		
011	BFE152	7/16/04	1500		2			2		
012	BF2652	7/16/04	1410		2			2		
013	BF2552	7/16/04	1456		2			2		

RELINQUISHED BY: Patricia A Stoll	Date/Time 7/19/04 1140	RECEIVED BY: D. Randall	Date/Time 7/19/04 1430	TOTAL NUMBER OF CONTAINERS: 50	Cooler Temperature: 4°c
COMPANY NAME: SAIC		COMPANY NAME: GEL		Cooler ID: 3	FEDEX NUMBER: N/A
RECEIVED BY: [illegible]	Date/Time 7/19/04 1140	RELINQUISHED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			
RELINQUISHED BY: [illegible]	Date/Time 7/19/04 1430	RECEIVED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			

SAIC An Employee-Owned Company
Science Applications International Corporation
PO Box 2501, 151 Lafayette Dr., Tennessee 37830 (423) 481-4600

CHAIN OF CUSTODY RECORD

COC NO.: HLTM42

PROJECT NAME: HAAF Long Term Monitoring, D.O. 44

PROJECT NUMBER: 01-1055-04-8991-200

PROJECT MANAGER: ~~Patty Stoll~~ Sharon Stoller

Sampler (Signature) Patricia A Stoll (Printed Name) PATRICIA A STOLL

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843) 556-8171

	Sample ID	Date Collected	Time Collected	Matrix	REQUESTED PARAMETERS: BTEX	VOC	PAH	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
014	BF0452	7/16/04	1225	Water	2			2		
015	BF3552	7/17/04	931		2			2		
001	TH0401	7/16/04	0745		2			2		117169
002	AN1864	7/17/04	1353		2			2		
003	AN0262	7/17/04	1515		2			2		
004	AN2362	7/17/04	1435		2			2		
005	AN2262	7/17/04	1400		2			2		
006	AK0562	7/17/04	1330		2			2		
007	AK0662	7/17/04	1225		2			2		
008	AN1862	7/17/04	1350		2			2		
009	AN0162	7/17/04	1457		2			2		
010	AN1962	7/17/04	1310		2			2		
011	TH0402	7/17/04	0745		2			2		

RELINQUISHED BY: Patricia A Stoll	Date/Time 7/19/04 1140	RECEIVED BY:	Date/Time 7/19/04 1430	TOTAL NUMBER OF CONTAINERS: 50	Cooler Temperature: 4 °C
COMPANY NAME: SAIC		COMPANY NAME: GEL		Cooler ID: 3	FEDEX NUMBER: N/A
RECEIVED BY:	Date/Time 7/19/04 1140	RELINQUISHED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			
RELINQUISHED BY:	Date/Time 7-19-04 1430	RECEIVED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			

GENERAL ENGINEERING LABORATORIES, LLC
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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF0462
Sample ID: 129001011
Matrix: Water
Collect Date: 12-JAN-05 15:55
Receive Date: 17-JAN-05
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid										
2-Chloronaphthalene		ND	0.400	1.00	ug/L	1	RMB 01/20/05	1803	395114	1
2-Methylnaphthalene		ND	0.500	1.00	ug/L	1				
Acenaphthene		ND	0.500	1.00	ug/L	1				
Acenaphthylene		ND	0.500	1.00	ug/L	1				
Anthracene		ND	0.500	1.00	ug/L	1				
Benzo(a)anthracene		ND	0.500	1.00	ug/L	1				
Benzo(a)pyrene		ND	0.500	1.00	ug/L	1				
Benzo(b)fluoranthene		ND	0.500	1.00	ug/L	1				
Benzo(ghi)perylene		ND	0.500	1.00	ug/L	1				
Benzo(k)fluoranthene		ND	0.500	1.00	ug/L	1				
Dibenzo(a,h)anthracene		ND	0.500	1.00	ug/L	1				
Fluoranthene		ND	0.500	1.00	ug/L	1				
Fluorene		ND	0.500	1.00	ug/L	1				
Indeno(1,2,3-cd)pyrene		ND	0.500	1.00	ug/L	1				
Naphthalene		ND	0.110	1.00	ug/L	1				
Phenanthrene		ND	0.500	1.00	ug/L	1				
Pyrene		ND	0.500	1.00	ug/L	1				
Volatile Organics Federal										
5035/8260B BTEX in Liquid Federal										
Benzene	U	ND	0.330	1.00	ug/L	1	GRB2 01/25/05	0512	396607	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Toluene	U	ND	0.390	1.00	ug/L	1				
Xylenes (total)	U	ND	0.250	1.00	ug/L	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	RXM1	01/19/05	1609	395113

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	74	(37%-97%)

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF0462
Sample ID: 129001011

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Nitrobenzene-d5		3510/8270 PAH Extend list Liquid			71		(43%-101%)			
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			99		(49%-126%)			
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			107		(76%-115%)			
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			96		(72%-136%)			
Toluene-d8		5035/8260B BTEX in Liquid Federal			111		(80%-116%)			

Notes:
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E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
R Sample results are rejected due to sample preservation with HCl.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF2562
Sample ID: 129001012
Matrix: Water
Collect Date: 12-JAN-05 16:45
Receive Date: 17-JAN-05
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid										
2-Chloronaphthalene		ND	0.400	1.00	ug/L	1	RMB 01/20/05	1822	395114	1
2-Methylnaphthalene		ND	0.500	1.00	ug/L	1				
Acenaphthene		ND	0.500	1.00	ug/L	1				
Acenaphthylene		ND	0.500	1.00	ug/L	1				
Anthracene		ND	0.500	1.00	ug/L	1				
Benzo(a)anthracene		ND	0.500	1.00	ug/L	1				
Benzo(a)pyrene		ND	0.500	1.00	ug/L	1				
Benzo(b)fluoranthene		ND	0.500	1.00	ug/L	1				
Benzo(ghi)perylene		ND	0.500	1.00	ug/L	1				
Benzo(k)fluoranthene		ND	0.500	1.00	ug/L	1				
Dibenzo(a,h)anthracene		ND	0.500	1.00	ug/L	1				
Fluoranthene		ND	0.500	1.00	ug/L	1				
Fluorene		ND	0.500	1.00	ug/L	1				
Indeno(1,2,3-cd)pyrene		ND	0.500	1.00	ug/L	1				
Naphthalene		ND	0.110	1.00	ug/L	1				
Phenanthrene		ND	0.500	1.00	ug/L	1				
Pyrene		ND	0.500	1.00	ug/L	1				
Volatile Organics Federal										
5035/8260B BTEX in Liquid Federal										
Benzene	U	ND	0.330	1.00	ug/L	1	GRB2 01/25/05	0540	396607	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Toluene	U	ND	0.390	1.00	ug/L	1				
Xylenes (total)	U	ND	0.250	1.00	ug/L	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	RXM1	01/19/05	1609	395113

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	61	(37%-97%)

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF2562
Sample ID: 129001012

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Nitrobenzene-d5		3510/8270 PAH Extend list Liquid			64		(43%-101%)			
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			76		(49%-126%)			
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			107		(76%-115%)			
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			96		(72%-136%)			
Toluene-d8		5035/8260B BTEX in Liquid Federal			109		(80%-116%)			

Notes:
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E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
R Sample results are rejected due to sample preservation with HCl.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF2662
Sample ID: 129001003
Matrix: Water
Collect Date: 13-JAN-05 09:55
Receive Date: 17-JAN-05
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid										
2-Chloronaphthalene		ND	0.402	1.01	ug/L	1	RMB 01/20/05	1525	395114	1
2-Methylnaphthalene		ND	0.503	1.01	ug/L	1				
Acenaphthene		ND	0.503	1.01	ug/L	1				
Acenaphthylene		ND	0.503	1.01	ug/L	1				
Anthracene		ND	0.503	1.01	ug/L	1				
Benzo(a)anthracene		ND	0.503	1.01	ug/L	1				
Benzo(a)pyrene		ND	0.503	1.01	ug/L	1				
Benzo(b)fluoranthene		ND	0.503	1.01	ug/L	1				
Benzo(ghi)perylene		ND	0.503	1.01	ug/L	1				
Benzo(k)fluoranthene		ND	0.503	1.01	ug/L	1				
Dibenzo(a,h)anthracene		ND	0.503	1.01	ug/L	1				
Fluoranthene		ND	0.503	1.01	ug/L	1				
Fluorene		ND	0.503	1.01	ug/L	1				
Indeno(1,2,3-cd)pyrene		ND	0.503	1.01	ug/L	1				
Naphthalene		ND	0.111	1.01	ug/L	1				
Phenanthrene		ND	0.503	1.01	ug/L	1				
Pyrene		ND	0.503	1.01	ug/L	1				
Volatile Organics Federal										
5035/8260B BTEX in Liquid Federal										
Benzene	U	ND	0.330	1.00	ug/L	1	GRB2 01/25/05	0131	396607	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Toluene	U	ND	0.390	1.00	ug/L	1				
Xylenes (total)	U	ND	0.250	1.00	ug/L	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	RXM1	01/19/05	1609	395113

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	73	(37%-97%)

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF2662
Sample ID: 129001003

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nitrobenzene-d5		3510/8270 PAH Extend list Liquid			69		(43%-101%)				
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			73		(49%-126%)				
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			107		(76%-115%)				
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			99		(72%-136%)				
Toluene-d8		5035/8260B BTEX in Liquid Federal			110		(80%-116%)				

Notes:
The Qualifiers in this report are defined as follows :

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R Sample results are rejected due to sample preservation with HCl.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF2666
Sample ID: 129001001
Matrix: Water
Collect Date: 13-JAN-05 09:55
Receive Date: 17-JAN-05
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid										
2-Chloronaphthalene		ND	0.404	1.01	ug/L	1	RMB 01/20/05	1445	395114	1
2-Methylnaphthalene		ND	0.505	1.01	ug/L	1				
Acenaphthene		ND	0.505	1.01	ug/L	1				
Acenaphthylene		ND	0.505	1.01	ug/L	1				
Anthracene		ND	0.505	1.01	ug/L	1				
Benzo(a)anthracene		ND	0.505	1.01	ug/L	1				
Benzo(a)pyrene		ND	0.505	1.01	ug/L	1				
Benzo(b)fluoranthene		ND	0.505	1.01	ug/L	1				
Benzo(ghi)perylene		ND	0.505	1.01	ug/L	1				
Benzo(k)fluoranthene		ND	0.505	1.01	ug/L	1				
Dibenzo(a,h)anthracene		ND	0.505	1.01	ug/L	1				
Fluoranthene		ND	0.505	1.01	ug/L	1				
Fluorene		ND	0.505	1.01	ug/L	1				
Indeno(1,2,3-cd)pyrene		ND	0.505	1.01	ug/L	1				
Naphthalene		ND	0.111	1.01	ug/L	1				
Phenanthrene		ND	0.505	1.01	ug/L	1				
Pyrene		ND	0.505	1.01	ug/L	1				
Volatile Organics Federal										
5035/8260B BTEX in Liquid Federal										
Benzene	U	ND	0.330	1.00	ug/L	1	GRB2 01/25/05	0036	396607	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Toluene	U	ND	0.390	1.00	ug/L	1				
Xylenes (total)	U	ND	0.250	1.00	ug/L	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	RXM1	01/19/05	1609	395113

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	72	(37%-97%)

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF2666
Sample ID: 129001001

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Nitrobenzene-d5		3510/8270 PAH Extend list Liquid			65		(43%-101%)			
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			103		(49%-126%)			
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			106		(76%-115%)			
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			100		(72%-136%)			
Toluene-d8		5035/8260B BTEX in Liquid Federal			113		(80%-116%)			

Notes:
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H Analytical holding time exceeded.
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P The response between the confirmation column and the primary column is >40%D.
R Sample results are rejected due to sample preservation with HCl.
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X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

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Valerie Davis
Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF2762
Sample ID: 129001015
Matrix: Water
Collect Date: 13-JAN-05 11:40
Receive Date: 17-JAN-05
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid										
2-Chloronaphthalene		ND	0.400	1.00	ug/L	1	RMB 01/20/05	1922	395114	1
2-Methylnaphthalene		ND	0.500	1.00	ug/L	1				
Acenaphthene		ND	0.500	1.00	ug/L	1				
Acenaphthylene		ND	0.500	1.00	ug/L	1				
Anthracene		ND	0.500	1.00	ug/L	1				
Benzo(a)anthracene		ND	0.500	1.00	ug/L	1				
Benzo(a)pyrene		ND	0.500	1.00	ug/L	1				
Benzo(b)fluoranthene		ND	0.500	1.00	ug/L	1				
Benzo(ghi)perylene		ND	0.500	1.00	ug/L	1				
Benzo(k)fluoranthene		ND	0.500	1.00	ug/L	1				
Dibenzo(a,h)anthracene		ND	0.500	1.00	ug/L	1				
Fluoranthene		ND	0.500	1.00	ug/L	1				
Fluorene		ND	0.500	1.00	ug/L	1				
Indeno(1,2,3-cd)pyrene		ND	0.500	1.00	ug/L	1				
Naphthalene		ND	0.110	1.00	ug/L	1				
Phenanthrene		ND	0.500	1.00	ug/L	1				
Pyrene		ND	0.500	1.00	ug/L	1				
Volatile Organics Federal										
5035/8260B BTEX in Liquid Federal										
Benzene	U	ND	0.330	1.00	ug/L	1	GRB2 01/25/05	0702	396607	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Toluene	U	ND	0.390	1.00	ug/L	1				
Xylenes (total)	U	ND	0.250	1.00	ug/L	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	RXM1	01/19/05	1609	395113

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	73	(37%-97%)

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF2762
Sample ID: 129001015

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Nitrobenzene-d5		3510/8270 PAH Extend list Liquid			69		(43%-101%)			
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			85		(49%-126%)			
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			107		(76%-115%)			
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			95		(72%-136%)			
Toluene-d8		5035/8260B BTEX in Liquid Federal			108		(80%-116%)			

Notes:
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E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
R Sample results are rejected due to sample preservation with HCl.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

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Valerie Davis

Reviewed by

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF3562
Sample ID: 129001007
Matrix: Water
Collect Date: 14-JAN-05 10:20
Receive Date: 17-JAN-05
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid										
2-Chloronaphthalene		ND	0.400	1.00	ug/L	1	RMB 01/20/05	1643	395114	1
2-Methylnaphthalene		ND	0.500	1.00	ug/L	1				
Acenaphthene		ND	0.500	1.00	ug/L	1				
Acenaphthylene		ND	0.500	1.00	ug/L	1				
Anthracene		ND	0.500	1.00	ug/L	1				
Benzo(a)anthracene		ND	0.500	1.00	ug/L	1				
Benzo(a)pyrene		ND	0.500	1.00	ug/L	1				
Benzo(b)fluoranthene		ND	0.500	1.00	ug/L	1				
Benzo(ghi)perylene		ND	0.500	1.00	ug/L	1				
Benzo(k)fluoranthene		ND	0.500	1.00	ug/L	1				
Dibenzo(a,h)anthracene		ND	0.500	1.00	ug/L	1				
Fluoranthene		ND	0.500	1.00	ug/L	1				
Fluorene		ND	0.500	1.00	ug/L	1				
Indeno(1,2,3-cd)pyrene		ND	0.500	1.00	ug/L	1				
Naphthalene		ND	0.110	1.00	ug/L	1				
Phenanthrene		ND	0.500	1.00	ug/L	1				
Pyrene		ND	0.500	1.00	ug/L	1				
Volatile Organics Federal										
5035/8260B BTEX in Liquid Federal										
Benzene	U	ND	0.330	1.00	ug/L	1	GRB2 01/25/05	0321	396607	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Toluene	U	ND	0.390	1.00	ug/L	1				
Xylenes (total)	U	ND	0.250	1.00	ug/L	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	RXM1	01/19/05	1609	395113

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	70	(37%-97%)

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Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF3562
Sample ID: 129001007

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid				62		(43%-101%)			
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid				89		(49%-126%)			
Bromofluorobenzene	5035/8260B BTEX in Liquid Federal				109		(76%-115%)			
Dibromofluoromethane	5035/8260B BTEX in Liquid Federal				101		(72%-136%)			
Toluene-d8	5035/8260B BTEX in Liquid Federal				109		(80%-116%)			

Notes:
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H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
R Sample results are rejected due to sample preservation with HCl.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

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Valerie Davis
Reviewed by

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF3662
Sample ID: 129001006
Matrix: Water
Collect Date: 14-JAN-05 11:20
Receive Date: 17-JAN-05
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid											
2-Chloronaphthalene		ND	0.404	1.01	ug/L	1	RMB	01/20/05	1624	395114	1
2-Methylnaphthalene		ND	0.505	1.01	ug/L	1					
Acenaphthene		ND	0.505	1.01	ug/L	1					
Acenaphthylene		ND	0.505	1.01	ug/L	1					
Anthracene		ND	0.505	1.01	ug/L	1					
Benzo(a)anthracene		ND	0.505	1.01	ug/L	1					
Benzo(a)pyrene		ND	0.505	1.01	ug/L	1					
Benzo(b)fluoranthene		ND	0.505	1.01	ug/L	1					
Benzo(ghi)perylene		ND	0.505	1.01	ug/L	1					
Benzo(k)fluoranthene		ND	0.505	1.01	ug/L	1					
Dibenzo(a,h)anthracene		ND	0.505	1.01	ug/L	1					
Fluoranthene		ND	0.505	1.01	ug/L	1					
Fluorene		ND	0.505	1.01	ug/L	1					
Indeno(1,2,3-cd)pyrene		ND	0.505	1.01	ug/L	1					
Naphthalene		ND	0.111	1.01	ug/L	1					
Phenanthrene		ND	0.505	1.01	ug/L	1					
Pyrene		ND	0.505	1.01	ug/L	1					
2-Chloronaphthalene	Uh	ND	0.404	1.01	ug/L	1	RMB	01/25/05	1115	396095	2
2-Methylnaphthalene	Uh	ND	0.505	1.01	ug/L	1					
Acenaphthene	Uh	ND	0.505	1.01	ug/L	1					
Acenaphthylene	Uh	ND	0.505	1.01	ug/L	1					
Anthracene	Uh	ND	0.505	1.01	ug/L	1					
Benzo(a)anthracene	Uh	ND	0.505	1.01	ug/L	1					
Benzo(a)pyrene	Uh	ND	0.505	1.01	ug/L	1					
Benzo(b)fluoranthene	Uh	ND	0.505	1.01	ug/L	1					
Benzo(ghi)perylene	Uh	ND	0.505	1.01	ug/L	1					
Benzo(k)fluoranthene	Uh	ND	0.505	1.01	ug/L	1					
Dibenzo(a,h)anthracene	Uh	ND	0.505	1.01	ug/L	1					
Fluoranthene	Uh	ND	0.505	1.01	ug/L	1					
Fluorene	Uh	ND	0.505	1.01	ug/L	1					
Indeno(1,2,3-cd)pyrene	Uh	ND	0.505	1.01	ug/L	1					
Naphthalene	Uh	ND	0.111	1.01	ug/L	1					
Phenanthrene	Uh	ND	0.505	1.01	ug/L	1					
Pyrene	Uh	ND	0.505	1.01	ug/L	1					
Volatile Organics Federal											
5035/8260B BTEX in Liquid Federal											
Benzene	U	ND	0.330	1.00	ug/L	1	GRB2	01/25/05	0253	396607	3
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					

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Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF3662
Sample ID: 129001006

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
5035/8260B BTEX in Liquid Federal										
Toluene	U	ND	0.390	1.00	ug/L	1				
Xylenes (total)	U	ND	0.250	1.00	ug/L	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	NSM	01/24/05	1000	396094
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	RXM1	01/19/05	1609	395113

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	43	(37%-97%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid	37 *	(43%-101%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid	57	(49%-126%)
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	78	(37%-97%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid	77	(43%-101%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid	64	(49%-126%)
Bromofluorobenzene	5035/8260B BTEX in Liquid Federal	108	(76%-115%)
Dibromofluoromethane	5035/8260B BTEX in Liquid Federal	101	(72%-136%)
Toluene-d8	5035/8260B BTEX in Liquid Federal	111	(80%-116%)

Notes:
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E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
R Sample results are rejected due to sample preservation with HCl.
U Indicates the target analyte was analyzed for but not detected above the detection limit.

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Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF3662
Sample ID: 129001006

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF3762
Sample ID: 129001008
Matrix: Water
Collect Date: 14-JAN-05 11:00
Receive Date: 17-JAN-05
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid										
2-Chloronaphthalene		ND	0.404	1.01	ug/L	1	RMB 01/20/05	1703	395114	1
2-Methylnaphthalene		ND	0.505	1.01	ug/L	1				
Acenaphthene		ND	0.505	1.01	ug/L	1				
Acenaphthylene		ND	0.505	1.01	ug/L	1				
Anthracene		ND	0.505	1.01	ug/L	1				
Benzo(a)anthracene		ND	0.505	1.01	ug/L	1				
Benzo(a)pyrene		ND	0.505	1.01	ug/L	1				
Benzo(b)fluoranthene		ND	0.505	1.01	ug/L	1				
Benzo(ghi)perylene		ND	0.505	1.01	ug/L	1				
Benzo(k)fluoranthene		ND	0.505	1.01	ug/L	1				
Dibenzo(a,h)anthracene		ND	0.505	1.01	ug/L	1				
Fluoranthene		ND	0.505	1.01	ug/L	1				
Fluorene		ND	0.505	1.01	ug/L	1				
Indeno(1,2,3-cd)pyrene		ND	0.505	1.01	ug/L	1				
Naphthalene		ND	0.111	1.01	ug/L	1				
Phenanthrene		ND	0.505	1.01	ug/L	1				
Pyrene		ND	0.505	1.01	ug/L	1				
Volatile Organics Federal										
5035/8260B BTEX in Liquid Federal										
Benzene	U	ND	0.330	1.00	ug/L	1	GRB2 01/25/05	0349	396607	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Toluene	U	ND	0.390	1.00	ug/L	1				
Xylenes (total)	U	ND	0.250	1.00	ug/L	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	RXM1	01/19/05	1609	395113

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	77	(37%-97%)

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Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BF3762
Sample ID: 129001008

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Nitrobenzene-d5		3510/8270 PAH Extend list Liquid			68		(43%-101%)			
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			90		(49%-126%)			
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			107		(76%-115%)			
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			100		(72%-136%)			
Toluene-d8		5035/8260B BTEX in Liquid Federal			110		(80%-116%)			

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P The response between the confirmation column and the primary column is >40%D.
R Sample results are rejected due to sample preservation with HCl.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

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Valerie Davis
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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE162
Sample ID: 129001009
Matrix: Water
Collect Date: 13-JAN-05 14:20
Receive Date: 17-JAN-05
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid										
2-Chloronaphthalene		ND	0.400	1.00	ug/L	1	RMB 01/20/05	1723	395114	1
2-Methylnaphthalene		ND	0.500	1.00	ug/L	1				
Acenaphthene		1.63	0.500	1.00	ug/L	1				
Acenaphthylene		ND	0.500	1.00	ug/L	1				
Anthracene		ND	0.500	1.00	ug/L	1				
Benzo(a)anthracene		ND	0.500	1.00	ug/L	1				
Benzo(a)pyrene		ND	0.500	1.00	ug/L	1				
Benzo(b)fluoranthene		ND	0.500	1.00	ug/L	1				
Benzo(ghi)perylene		ND	0.500	1.00	ug/L	1				
Benzo(k)fluoranthene		ND	0.500	1.00	ug/L	1				
Dibenzo(a,h)anthracene		ND	0.500	1.00	ug/L	1				
Fluoranthene		ND	0.500	1.00	ug/L	1				
Fluorene		3.14	0.500	1.00	ug/L	1				
Indeno(1,2,3-cd)pyrene		ND	0.500	1.00	ug/L	1				
Naphthalene		ND	0.110	1.00	ug/L	1				
Phenanthrene		1.24	0.500	1.00	ug/L	1				
Pyrene		ND	0.500	1.00	ug/L	1				
Volatile Organics Federal										
5035/8260B BTEX in Liquid Federal										
Benzene	U	ND	0.330	1.00	ug/L	1	GRB2 01/25/05	0417	396607	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Toluene	U	ND	0.390	1.00	ug/L	1				
Xylenes (total)	U	ND	0.250	1.00	ug/L	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	RXM1	01/19/05	1609	395113

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	82	(37%-97%)

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Company : SAIC
Address : 151 Lafayette Drive
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Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE162
Sample ID: 129001009

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Nitrobenzene-d5		3510/8270 PAH Extend list Liquid			76		(43%-101%)			
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			82		(49%-126%)			
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			106		(76%-115%)			
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			99		(72%-136%)			
Toluene-d8		5035/8260B BTEX in Liquid Federal			112		(80%-116%)			

Notes:
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E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
R Sample results are rejected due to sample preservation with HCl.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

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Valerie Davis
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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE262
Sample ID: 129001002
Matrix: Water
Collect Date: 13-JAN-05 15:05
Receive Date: 17-JAN-05
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid										
2-Chloronaphthalene		ND	0.396	0.990	ug/L	1	RMB 01/20/05	1505	395114	1
2-Methylnaphthalene		ND	0.495	0.990	ug/L	1				
Acenaphthene		ND	0.495	0.990	ug/L	1				
Acenaphthylene		ND	0.495	0.990	ug/L	1				
Anthracene		ND	0.495	0.990	ug/L	1				
Benzo(a)anthracene		ND	0.495	0.990	ug/L	1				
Benzo(a)pyrene		ND	0.495	0.990	ug/L	1				
Benzo(b)fluoranthene		ND	0.495	0.990	ug/L	1				
Benzo(ghi)perylene		ND	0.495	0.990	ug/L	1				
Benzo(k)fluoranthene		ND	0.495	0.990	ug/L	1				
Dibenzo(a,h)anthracene		ND	0.495	0.990	ug/L	1				
Fluoranthene		ND	0.495	0.990	ug/L	1				
Fluorene		ND	0.495	0.990	ug/L	1				
Indeno(1,2,3-cd)pyrene		ND	0.495	0.990	ug/L	1				
Naphthalene		ND	0.109	0.990	ug/L	1				
Phenanthrene		ND	0.495	0.990	ug/L	1				
Pyrene		ND	0.495	0.990	ug/L	1				
Volatile Organics Federal										
5035/8260B BTEX in Liquid Federal										
Benzene	U	ND	0.330	1.00	ug/L	1	GRB2 01/25/05	0103	396607	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Toluene	U	ND	0.390	1.00	ug/L	1				
Xylenes (total)	U	ND	0.250	1.00	ug/L	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	RXM1	01/19/05	1609	395113

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	76	(37%-97%)

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE262
Sample ID: 129001002

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Nitrobenzene-d5		3510/8270 PAH Extend list Liquid			69		(43%-101%)			
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			83		(49%-126%)			
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			107		(76%-115%)			
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			98		(72%-136%)			
Toluene-d8		5035/8260B BTEX in Liquid Federal			111		(80%-116%)			

Notes:
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** Indicates the analyte is a surrogate compound.
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E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
R Sample results are rejected due to sample preservation with HCl.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

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Valerie Davis
Reviewed by

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE264
Sample ID: 129001004
Matrix: Water
Collect Date: 13-JAN-05 15:05
Receive Date: 17-JAN-05
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid										
2-Chloronaphthalene		ND	0.400	1.00	ug/L	1	RMB 01/20/05	1544	395114	1
2-Methylnaphthalene		ND	0.500	1.00	ug/L	1				
Acenaphthene		ND	0.500	1.00	ug/L	1				
Acenaphthylene		ND	0.500	1.00	ug/L	1				
Anthracene		ND	0.500	1.00	ug/L	1				
Benzo(a)anthracene		ND	0.500	1.00	ug/L	1				
Benzo(a)pyrene		ND	0.500	1.00	ug/L	1				
Benzo(b)fluoranthene		ND	0.500	1.00	ug/L	1				
Benzo(ghi)perylene		ND	0.500	1.00	ug/L	1				
Benzo(k)fluoranthene		ND	0.500	1.00	ug/L	1				
Dibenzo(a,h)anthracene		ND	0.500	1.00	ug/L	1				
Fluoranthene		ND	0.500	1.00	ug/L	1				
Fluorene		ND	0.500	1.00	ug/L	1				
Indeno(1,2,3-cd)pyrene		ND	0.500	1.00	ug/L	1				
Naphthalene		ND	0.110	1.00	ug/L	1				
Phenanthrene		ND	0.500	1.00	ug/L	1				
Pyrene		ND	0.500	1.00	ug/L	1				
Volatile Organics Federal										
5035/8260B BTEX in Liquid Federal										
Benzene	U	ND	0.330	1.00	ug/L	1	GRB2 01/25/05	0158	396607	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Toluene	U	ND	0.390	1.00	ug/L	1				
Xylenes (total)	U	ND	0.250	1.00	ug/L	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	RXM1	01/19/05	1609	395113

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	78	(37%-97%)

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Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE264
Sample ID: 129001004

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Nitrobenzene-d5		3510/8270 PAH Extend list Liquid			69		(43%-101%)			
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			92		(49%-126%)			
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			105		(76%-115%)			
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			97		(72%-136%)			
Toluene-d8		5035/8260B BTEX in Liquid Federal			111		(80%-116%)			

Notes:
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B Target analyte was detected in the sample as well as the associated blank.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
R Sample results are rejected due to sample preservation with HCl.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

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Valerie Davis
Reviewed by

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE362
Sample ID: 129001005
Matrix: Water
Collect Date: 13-JAN-05 15:50
Receive Date: 17-JAN-05
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid										
2-Chloronaphthalene		ND	0.400	1.00	ug/L	1	RMB 01/20/05	1604	395114	1
2-Methylnaphthalene		1.38	0.500	1.00	ug/L	1				
Acenaphthene		ND	0.500	1.00	ug/L	1				
Acenaphthylene		ND	0.500	1.00	ug/L	1				
Anthracene		ND	0.500	1.00	ug/L	1				
Benzo(a)anthracene		ND	0.500	1.00	ug/L	1				
Benzo(a)pyrene		ND	0.500	1.00	ug/L	1				
Benzo(b)fluoranthene		ND	0.500	1.00	ug/L	1				
Benzo(ghi)perylene		ND	0.500	1.00	ug/L	1				
Benzo(k)fluoranthene		ND	0.500	1.00	ug/L	1				
Dibenzo(a,h)anthracene		ND	0.500	1.00	ug/L	1				
Fluoranthene		ND	0.500	1.00	ug/L	1				
Fluorene		ND	0.500	1.00	ug/L	1				
Indeno(1,2,3-cd)pyrene		ND	0.500	1.00	ug/L	1				
Naphthalene		0.313	0.110	1.00	ug/L	1				
Phenanthrene		ND	0.500	1.00	ug/L	1				
Pyrene		ND	0.500	1.00	ug/L	1				
Volatile Organics Federal										
5035/8260B BTEX in Liquid Federal										
Benzene	U	ND	0.330	1.00	ug/L	1	GRB2 01/25/05	0226	396607	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Toluene	U	ND	0.390	1.00	ug/L	1				
Xylenes (total)	U	ND	0.250	1.00	ug/L	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	RXM1	01/19/05	1609	395113

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	57	(37%-97%)

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Company : SAIC
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Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE362
Sample ID: 129001005

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nitrobenzene-d5		3510/8270 PAH Extend list Liquid			56		(43%-101%)				
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			61		(49%-126%)				
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			106		(76%-115%)				
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			97		(72%-136%)				
Toluene-d8		5035/8260B BTEX in Liquid Federal			114		(80%-116%)				

Notes:
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** Indicates the analyte is a surrogate compound.
B Target analyte was detected in the sample as well as the associated blank.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
R Sample results are rejected due to sample preservation with HCl.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

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Reviewed by

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE462
Sample ID: 129001014
Matrix: Water
Collect Date: 13-JAN-05 16:25
Receive Date: 17-JAN-05
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid										
2-Chloronaphthalene		ND	0.404	1.01	ug/L	1	RMB 01/20/05	1902	395114	1
2-Methylnaphthalene		1.47	0.505	1.01	ug/L	1				
Acenaphthene		ND	0.505	1.01	ug/L	1				
Acenaphthylene		ND	0.505	1.01	ug/L	1				
Anthracene		ND	0.505	1.01	ug/L	1				
Benzo(a)anthracene		ND	0.505	1.01	ug/L	1				
Benzo(a)pyrene		ND	0.505	1.01	ug/L	1				
Benzo(b)fluoranthene		ND	0.505	1.01	ug/L	1				
Benzo(ghi)perylene		ND	0.505	1.01	ug/L	1				
Benzo(k)fluoranthene		ND	0.505	1.01	ug/L	1				
Dibenzo(a,h)anthracene		ND	0.505	1.01	ug/L	1				
Fluoranthene		ND	0.505	1.01	ug/L	1				
Fluorene		ND	0.505	1.01	ug/L	1				
Indeno(1,2,3-cd)pyrene		ND	0.505	1.01	ug/L	1				
Naphthalene		0.607	0.111	1.01	ug/L	1				
Phenanthrene		ND	0.505	1.01	ug/L	1				
Pyrene		ND	0.505	1.01	ug/L	1				
2-Chloronaphthalene	Uh	ND	0.404	1.01	ug/L	1	RMB 01/25/05	1135	396095	2
2-Methylnaphthalene	h	4.85	0.505	1.01	ug/L	1				
Acenaphthene	Uh	ND	0.505	1.01	ug/L	1				
Acenaphthylene	Uh	ND	0.505	1.01	ug/L	1				
Anthracene	Uh	ND	0.505	1.01	ug/L	1				
Benzo(a)anthracene	Uh	ND	0.505	1.01	ug/L	1				
Benzo(a)pyrene	Uh	ND	0.505	1.01	ug/L	1				
Benzo(b)fluoranthene	Uh	ND	0.505	1.01	ug/L	1				
Benzo(ghi)perylene	Uh	ND	0.505	1.01	ug/L	1				
Benzo(k)fluoranthene	Uh	ND	0.505	1.01	ug/L	1				
Dibenzo(a,h)anthracene	Uh	ND	0.505	1.01	ug/L	1				
Fluoranthene	Uh	ND	0.505	1.01	ug/L	1				
Fluorene	Jh	0.669	0.505	1.01	ug/L	1				
Indeno(1,2,3-cd)pyrene	Uh	ND	0.505	1.01	ug/L	1				
Naphthalene	h	1.99	0.111	1.01	ug/L	1				
Phenanthrene	Jh	0.825	0.505	1.01	ug/L	1				
Pyrene	Uh	ND	0.505	1.01	ug/L	1				
Volatile Organics Federal										
5035/8260B BTEX in Liquid Federal										
Benzene	U	ND	0.330	1.00	ug/L	1	GRB2 01/25/05	0635	396607	3
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE462
Sample ID: 129001014

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
5035/8260B BTEX in Liquid Federal										
Toluene	U	ND	0.390	1.00	ug/L	1				
Xylenes (total)	J	0.897	0.250	1.00	ug/L	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	NSM	01/24/05	1000	396094
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	RXM1	01/19/05	1609	395113

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	26 *	(37%-97%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid	44	(43%-101%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid	28 *	(49%-126%)
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	77	(37%-97%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid	75	(43%-101%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid	68	(49%-126%)
Bromofluorobenzene	5035/8260B BTEX in Liquid Federal	104	(76%-115%)
Dibromofluoromethane	5035/8260B BTEX in Liquid Federal	95	(72%-136%)
Toluene-d8	5035/8260B BTEX in Liquid Federal	112	(80%-116%)

Notes:
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E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
R Sample results are rejected due to sample preservation with HCl.
U Indicates the target analyte was analyzed for but not detected above the detection limit.

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Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE462
Sample ID: 129001014

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

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Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE562
Sample ID: 129001010
Matrix: Water
Collect Date: 13-JAN-05 16:55
Receive Date: 17-JAN-05
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid										
2-Chloronaphthalene		ND	0.404	1.01	ug/L	1	RMB 01/20/05	1743	395114	1
2-Methylnaphthalene		43.2	0.505	1.01	ug/L	1				
Acenaphthene		5.42	0.505	1.01	ug/L	1				
Acenaphthylene		ND	0.505	1.01	ug/L	1				
Anthracene		ND	0.505	1.01	ug/L	1				
Benzo(a)anthracene		ND	0.505	1.01	ug/L	1				
Benzo(a)pyrene		ND	0.505	1.01	ug/L	1				
Benzo(b)fluoranthene		ND	0.505	1.01	ug/L	1				
Benzo(ghi)perylene		ND	0.505	1.01	ug/L	1				
Benzo(k)fluoranthene		ND	0.505	1.01	ug/L	1				
Dibenzo(a,h)anthracene		ND	0.505	1.01	ug/L	1				
Fluoranthene		ND	0.505	1.01	ug/L	1				
Fluorene		10.3	0.505	1.01	ug/L	1				
Indeno(1,2,3-cd)pyrene		ND	0.505	1.01	ug/L	1				
Naphthalene		32.9	0.111	1.01	ug/L	1				
Phenanthrene		10.7	0.505	1.01	ug/L	1				
Pyrene		2.37	0.505	1.01	ug/L	1				
Volatile Organics Federal										
5035/8260B BTEX in Liquid Federal										
Benzene	U	ND	0.330	1.00	ug/L	1	GRB2 01/25/05	0444	396607	2
Ethylbenzene		10.4	0.210	1.00	ug/L	1				
Toluene	J	0.429	0.390	1.00	ug/L	1				
Xylenes (total)		34.9	0.250	1.00	ug/L	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	RXM1	01/19/05	1609	395113

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	84	(37%-97%)

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Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE562
Sample ID: 129001010

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Nitrobenzene-d5		3510/8270 PAH Extend list Liquid			75		(43%-101%)			
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			95		(49%-126%)			
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			103		(76%-115%)			
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			96		(72%-136%)			
Toluene-d8		5035/8260B BTEX in Liquid Federal			109		(80%-116%)			

Notes:
The Qualifiers in this report are defined as follows :

* Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
** Indicates the analyte is a surrogate compound.
B Target analyte was detected in the sample as well as the associated blank.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
R Sample results are rejected due to sample preservation with HCl.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE662
Sample ID: 129001013
Matrix: Water
Collect Date: 13-JAN-05 17:35
Receive Date: 17-JAN-05
Collector: Client

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid										
2-Chloronaphthalene		ND	0.400	1.00	ug/L	1	RMB 01/20/05	1842	395114	1
2-Methylnaphthalene		ND	0.500	1.00	ug/L	1				
Acenaphthene		ND	0.500	1.00	ug/L	1				
Acenaphthylene		ND	0.500	1.00	ug/L	1				
Anthracene		ND	0.500	1.00	ug/L	1				
Benzo(a)anthracene		ND	0.500	1.00	ug/L	1				
Benzo(a)pyrene		ND	0.500	1.00	ug/L	1				
Benzo(b)fluoranthene		ND	0.500	1.00	ug/L	1				
Benzo(ghi)perylene		ND	0.500	1.00	ug/L	1				
Benzo(k)fluoranthene		ND	0.500	1.00	ug/L	1				
Dibenzo(a,h)anthracene		ND	0.500	1.00	ug/L	1				
Fluoranthene		ND	0.500	1.00	ug/L	1				
Fluorene		ND	0.500	1.00	ug/L	1				
Indeno(1,2,3-cd)pyrene		ND	0.500	1.00	ug/L	1				
Naphthalene		ND	0.110	1.00	ug/L	1				
Phenanthrene		ND	0.500	1.00	ug/L	1				
Pyrene		ND	0.500	1.00	ug/L	1				
Volatile Organics Federal										
5035/8260B BTEX in Liquid Federal										
Benzene	U	ND	0.330	1.00	ug/L	1	GRB2 01/25/05	0607	396607	2
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Toluene	J	0.470	0.390	1.00	ug/L	1				
Xylenes (total)	U	ND	0.250	1.00	ug/L	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	3510C BNA Liq. Prep-8270C Analysis Fed	RXM1	01/19/05	1609	395113

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid	61	(37%-97%)

GENERAL ENGINEERING LABORATORIES, LLC
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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: March 8, 2005

Contact: Ms. Leslie Barbour
Project: **Hunter Army Airfield LTM**

Client Sample ID: BFE662
Sample ID: 129001013

Project: SAIC05900
Client ID: SAIC059

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Nitrobenzene-d5		3510/8270 PAH Extend list Liquid			63		(43%-101%)			
p-Terphenyl-d14		3510/8270 PAH Extend list Liquid			73		(49%-126%)			
Bromofluorobenzene		5035/8260B BTEX in Liquid Federal			106		(76%-115%)			
Dibromofluoromethane		5035/8260B BTEX in Liquid Federal			99		(72%-136%)			
Toluene-d8		5035/8260B BTEX in Liquid Federal			107		(80%-116%)			

Notes:
The Qualifiers in this report are defined as follows :

* Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
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J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
R Sample results are rejected due to sample preservation with HCl.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

SAIC An Employee-Owned Company
Science Applications International Corporation
PO Box 2501, 151 Lafayette Dr., Tennessee 37830 (423) 481-4600

CHAIN OF CUSTODY RECORD

COC NO.: HLTMS1

PROJECT NAME: HAAF Long Term Monitoring, D.O. 44

PROJECT NUMBER: 01-1055-04-8991-200

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Patricia P Stoll (Printed Name): PATRICIA A. STOLL

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843) 556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX	VOC	PAH	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
BF2666	1/13/05	0955	water	2		2	2		129001 001
BFE262	↓	1505	↓	2		2	2		002
BF2662	↓	0955	↓	2		2	2		003
BFE264	↓	1505	↓	2		2	2		004
BFE362	↓	1550	↓	2		2	2		005
BF3662	1/14/05	1120	↓	2		2	2		006
BF3562	↓	1020	↓	2		2	2		007
BF3762	↓	1100	↓	2		2	2		008
BFE162	1/13/05	1420	↓	2		2	2		009
BFE562	↓	1655	↓	2		2	2		010
BFØ462	1/12/05	1555	↓	2		2	2		011
BF2562	↓	1645	↓	2		2	2		012
BFE662	1/13/05	1735	↓	2		2	2		013

RELINQUISHED BY: Patricia A Stoll	Date/Time 1/17/05 1150	RECEIVED BY: T. [illegible]	Date/Time 1.17.5 1455	TOTAL NUMBER OF CONTAINERS: ~~5~~ ~~40~~ 112	Cooler Temperature: 4°C
COMPANY NAME: SAIC		COMPANY NAME: GEL		Cooler ID: 176	FEDEX NUMBER: N/A
RECEIVED BY: Ben Watkins	Date/Time 1/17/05 1150	RELINQUISHED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			
RELINQUISHED BY: Ben Watkins	Date/Time 1/17/05 1455	RECEIVED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			

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CHAIN OF CUSTODY RECORD

COC NO.: HLTM51

PROJECT NAME: HAAF Long Term Monitoring, D.O. 44

PROJECT NUMBER: 01-1055-04-8991-200

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Patty Stoll (Printed Name): PATRICIA A. STOLL

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX	VOC	PAH	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
BFE462	4/13/05	1625	water	2		2	2		12906l014
TH0407	4/12/05	0800		2			2		12900300l
TH0408	4/14/05	0800		2			2		129003002
TH0416	4/16/05	0815			2		2		129005012
TH0409	4/15/05	0830		2			2		129003003
AF02C6	4/13/05	1500		2			2		004
AF02C2	↓	1520		2			2		005
AF05C2		1445		2			2		006
AF12C2		1325		2			2		007
AF07C2	↓	1415		2			2		008
AN2272	4/14/05	1545		2			2		009
AK0572	↓	1440		2			2		010
AK0574	↓	1440	↓	2			2		011

REQUESTED PARAMETERS

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
Patty Stoll	1/17/05		
COMPANY NAME: SAIC	1150	COMPANY NAME: GEL	1455
RECEIVED BY: Ben Wattman	Date/Time 1/17/05	RELINQUISHED BY:	Date/Time
COMPANY NAME: GEL	1150	COMPANY NAME:	
RELINQUISHED BY: Ben Wattman	Date/Time 1/17/05	RECEIVED BY:	Date/Time
COMPANY NAME: GEL	1455	COMPANY NAME:	

TOTAL NUMBER OF CONTAINERS: ~~40~~ 112

Cooler Temperature: 4°C

Cooler ID: 176

FEDEX NUMBER: N/A

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CHAIN OF CUSTODY RECORD

COC NO.: HLTM51

PROJECT NAME: HAAF Long Term Monitoring, D.O. 44

PROJECT NUMBER: 01-1055-04-8991-200

PROJECT MANAGER: Patty Stoll

Sampler (Signature) Patricia A. Stoll (Printed Name) PATRICIA A. STOLL

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843) 556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX	VOC	PAH	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
AS0422	1/16/05	1100	water		2		2		
AS0822	↓	1210	↓		2		2		
AS1422	↓	1020	↓		2		2		
BF2762	1/13/05	1140	water	2		2	2		1290LAS

Patricia A. Stoll 1/16/05

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time	TOTAL NUMBER OF CONTAINERS: 13/40/112	Cooler Temperature: 4°
Patricia A. Stoll	1/17/05 1150	[illegible]	1.17.5 1455	Cooler ID: 176	FEDEX NUMBER: N/A
COMPANY NAME: SAIC		COMPANY NAME: GEL			
RECEIVED BY: Ben Watkins	Date/Time 1/17/05 1150	RELINQUISHED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			
RELINQUISHED BY: Ben Watkins	Date/Time 1/17/05 1455	RECEIVED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			

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CHAIN OF CUSTODY RECORD

COC NO.: HLTM52

PROJECT NAME: HAAF Long Term Monitoring, D.O. 44

PROJECT NUMBER: 01-1055-04-8991-200

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Patricia Q Stoll (Printed Name): PATRICIA A. STOLL

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX	VOC	SVOC PAH	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
BF2666	1/13/05	0955	water			2	2		
BF3662	1/14/05	1120				2	2		
BFE362	1/13/05	1550				2	2		
BF3762	1/14/05	1100				2	2		
BF3562	1/14/05	1020				2	2		
BFE264	1/13/05	1505	↓			2	2		

Patricia Q Stoll 1/17/05

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
Patricia Q Stoll	1/17/05 1450	T. Shaw	1.17.5 1455
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RECEIVED BY: Ben Watkins	Date/Time 1/17/05 1150	RELINQUISHED BY:	Date/Time
COMPANY NAME: GEL		COMPANY NAME:	
RELINQUISHED BY: Ben Watkins	Date/Time 1/17/05 1455	RECEIVED BY:	Date/Time
COMPANY NAME: GEL		COMPANY NAME:	

TOTAL NUMBER OF CONTAINERS: 12

Cooler ID: 109

Cooler Temperature: 4°C

FEDEX NUMBER: N/A

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CHAIN OF CUSTODY RECORD

COC NO.: HLTM53

PROJECT NAME: HAAF Long Term Monitoring, D.O. 44

PROJECT NUMBER: 01-1055-04-8991-200

PROJECT MANAGER: Patty Stoll

Sampler (Signature): P Stoll **(Printed Name):** PATRICIA A. STOLL

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	REQUESTED PARAMETERS: BTEX	VOC	PAH	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
BF2562	1/12/05	1645	water			2	2		
BFE562	1/13/05	1655				2	2		
BFE462	1/13/05	1625				2	2		
BFE262	1/13/05	1505				2	2		
BFE162	1/13/05	1420				2	2		
BF2662	1/13/05	0955				2	2		

P Stoll 1/17/05

RELINQUISHED BY: P Stoll	Date/Time 1/17/05 1150	RECEIVED BY:	Date/Time 1.17.5 1455	TOTAL NUMBER OF CONTAINERS: 12	Cooler Temperature: 4°C
COMPANY NAME: SAIC		COMPANY NAME: GEL		Cooler ID: 103	FEDEX NUMBER: N/A
RECEIVED BY: Ben Watkins	Date/Time 1/17/05 1150	RELINQUISHED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			
RELINQUISHED BY: Ben Watkins	Date/Time 1/17/05 1455	RECEIVED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			

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CHAIN OF CUSTODY RECORD

COC NO.: HLTM54

PROJECT NAME: HAAF Long Term Monitoring, D.O. 44

PROJECT NUMBER: 01-1055-04-8991-200

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Patricia A Stoll (Printed Name): PATRICIA A. STOLL

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX	VOC	PAH	Oil + Grease	Phenols	pH	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
BF0462	1/12/05	1555	water			2				2		
BFE662	1/13/05	1735				2				2		
IDW068	1/17/05	1045			2		2	2	1	7		129006
BF2762	1/13/05	1140	water			2				2		

P Stoll 1/17/05

REQUESTED PARAMETERS

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 13	Cooler Temperature: 4°C
Patricia A Stoll	1/17/05 1150		1.17.05 1455	Cooler ID: 793	FEDEX NUMBER: N/A
COMPANY NAME: SAIC		COMPANY NAME: GEL			
RECEIVED BY: Ben Watkins	Date/Time 1/17/05 1150	RELINQUISHED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			
RELINQUISHED BY: Ben Watkins	Date/Time 1/17/05 1405	RECEIVED BY:	Date/Time		
COMPANY NAME: GEL		COMPANY NAME:			

ATTACHMENT D

WELL CONSTRUCTION DIAGRAMS

1.0

MONITORING WELL

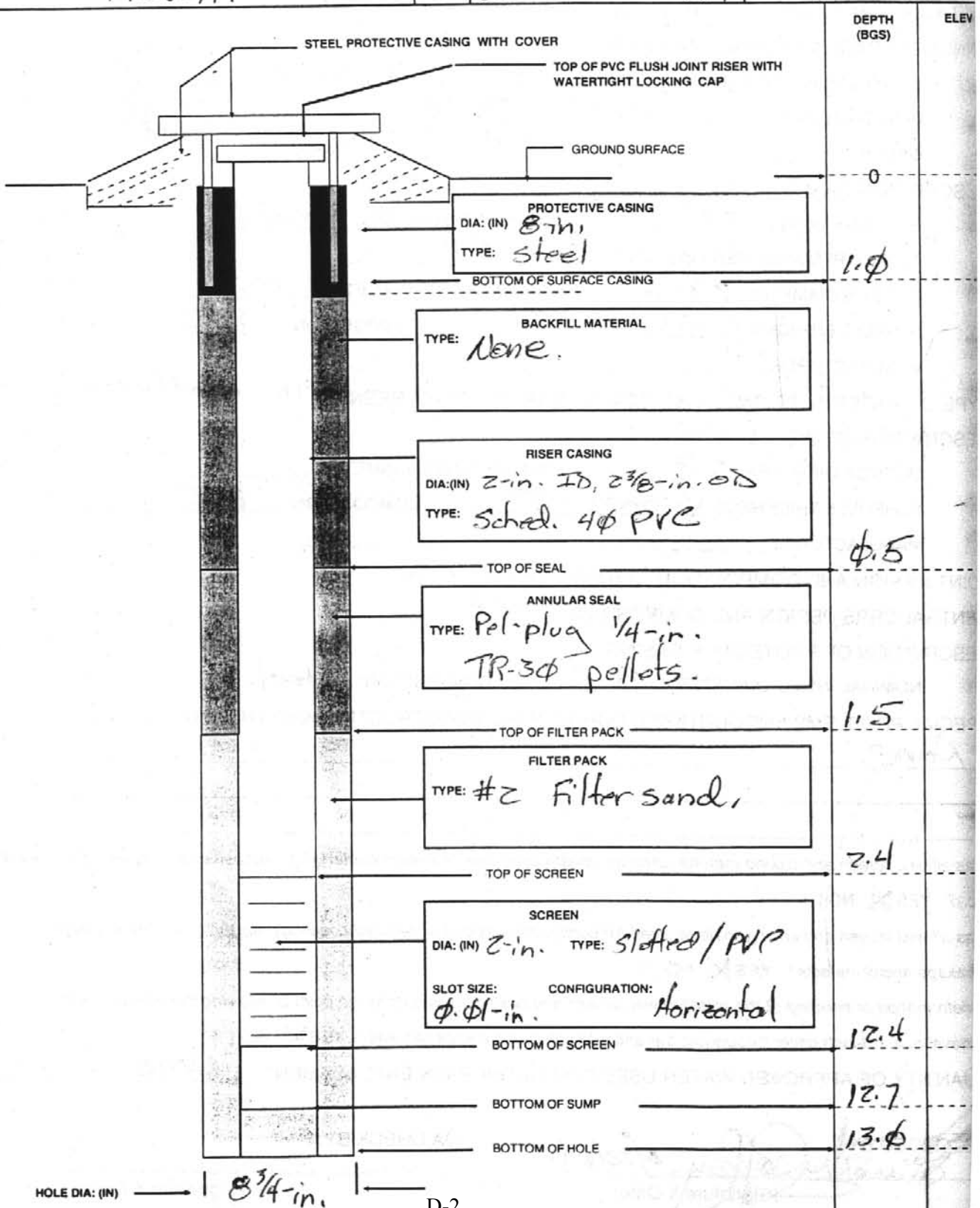
PROJECT: Bulk Fuel Facility
DELIVERY ORDER NO: 0044

WELL NUMBER: BF-MW-35
BEGIN: 6/22/04
END: 6/22/04

COORDINATES: N: 739834.57
E: 973604.28

DATUM/UNITS: NAD83/FT

REFERENCE POINT: TOC
ELEVATION: 14.94
DATUM/UNITS: NAVD88/FT



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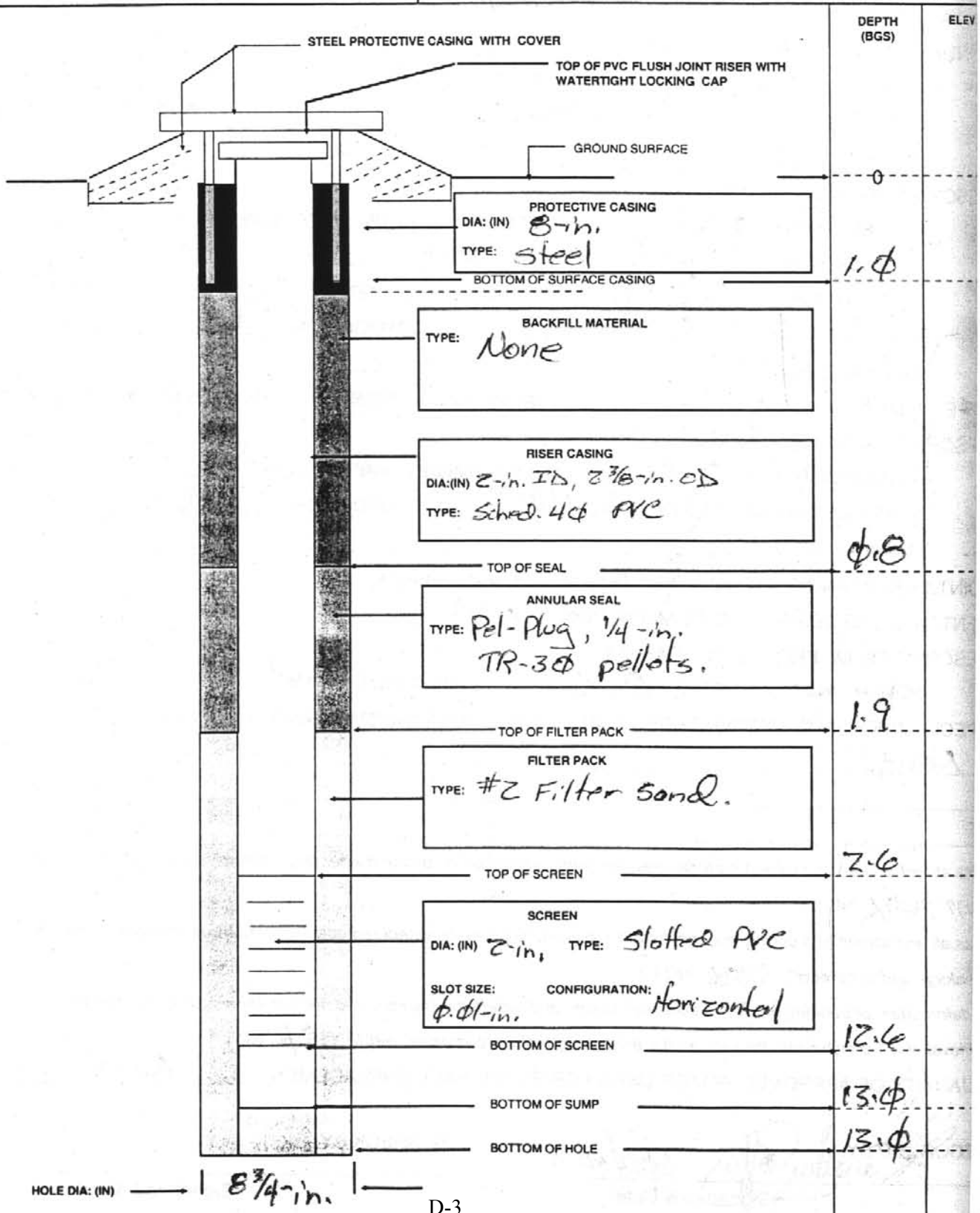
MONITORING WELL

PROJECT: Bulk Fuel Facility
DELIVERY ORDER NO: 0044

WELL NUMBER: BF-MW-36	**BEGIN:** 6/23/04	**END:** 6/23/04
COORDINATES: N: 739725.51 E: 973679.39	**REFERENCE POINT:** TOC	**ELEVATION:** 15.16
DATUM/UNITS: NAD83/FT		**DATUM/UNITS:** NAVD88/FT



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MONITORING WELL

PROJECT: Bulk Fuel Facility
DELIVERY ORDER NO: 0044

WELL NUMBER: BF-MW-37	**BEGIN:** 6/23/04	**END:** 6/23/04
COORDINATES: N: 739657.72 E: 973622.11	**REFERENCE POINT:** TOC	**ELEVATION:** 16.07
DATUM/UNITS: NAD 83/Ft		**DATUM/UNITS:** NAVD88/Ft