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Revised Corrective Action Plan – Part B With 2008 Annual Monitoring Report

Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter Army Airfield
Savannah, GA
Facility ID No. 9-025085*1

June 9, 2009

ARCADIS

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Senior Project Manager

Revised Corrective Action Plan – Part B with 2008 Annual Monitoring Report

Former Pumphouse #1 (Release #1)
Former Building 8060
Facility ID No. 9-025085*1
Hunter Army Air Field

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U.S. Army Environmental Command

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GP08HAFS.H13A

Date:
June 9, 2009

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Acronyms

ACL	Alternate Concentration Limit
ATL	Alternate Threshold Level
BGS	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
CAP	Corrective Action Plan
cm/s	centimeters per second
COPC	Chemical of Potential Concern
CPT	Cone Penetrometer Technology
DAACG	Departure/Arrival Air Control Group
DAF	Dilution Attenuation Factor
DO	Dissolved Oxygen
DOC	Dissolved Organic Carbon
DPT	Direct Push Technology
EFR	Enhanced Fluid Recovery
ft	Feet
ft/min	feet per minute
F&T	Fate and Transport
GA EPD	Georgia Environmental Protection Division
GUST	Georgia Underground Storage Tank
gpm	gallons per minute
HAAF	Hunter Army Airfield
HSRA	Hazardous Site Response Act
IWQS	In-Stream Water Quality Standard
MCL	maximum contaminant level
MNA	Monitored Natural Attenuation
mg/kg	milligrams per kilogram
µg/L	micrograms per liter
NAPL	Non-aqueous phase liquid
NTU	Nephelometric Turbidity Unit
ORP	Oxidation Reduction Potential
PAH	Polyaromatic Hydrocarbon
PID	Photo Ionization Detector
QAPP	Quality Assurance Project Plan

List of Acronyms (continued)

RRS	Risk Reduction Standard
SAIC	Science Applications International Corporation
STL	Soil Threshold Level
TEA	Terminal Electron Acceptor
TPH	Total Petroleum Hydrocarbon
UIC	Underground Injection Control
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
UST	Underground Storage tank
USTMP	Underground Storage Tank Management Program
VOC	Volatile Organic Compound
VE	Vacuum Extraction

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CORRECTIVE ACTION PLAN-PART B

Facility Name:	Former Pumphouse #1 Site (Release #1)			Street Address:	Former Building 8060, near Taxiway 3
Facility ID:	9-025085*1	City:	Hunter Army Airfield	County:	Chatham	Zip Code: 31409
Latitude:	32°00'54"	Longitude:	81°08'26"		

Submitted by UST Owner/Operator:		Prepared by Consultant/Contractor:	
Name:	Tressa Rutland/ Environmental Branch	Name:	Charles Bertz
Company:	U. S. Army/HQ 3d, Inf. Div. (Mech)	Company:	ARCADIS
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Zip Code:	31314-4927	Zip Code:	27607
Telephone:	(912) 767-2010	Telephone:	(919) 854-1282

I. PLAN CERTIFICATION:

A. UST OWNER/OPERATOR

I hereby certify that the information contained in this plan and in all the attachments is true, accurate, and the plan satisfies all criteria and requirements of rule 391-3-15-09 of the Georgia Rules for Underground Storage tank Management.

Name: Tressa Rutland

Signature:_____ Date:_____

B. 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: Scott Bostian, PE

Signature: Scott Bostian

Date: 6/9/09

GEORGIA REGISTERED PROFESSIONAL ENGINEER CURTIS SCOTT BOSTIAN

Georgia Stamp or Seal

Check all boxes that apply. Attach supporting documentation, i.e. narrative, figures, tables, maps, boring/well logs, etc., for all items checked. Supporting documentation should be three-hole punched and prepared in conformity with the guidance document "Underground Storage Tank (UST) Release: Corrective Action Plan-Part B (CAP-B) Content", GUST 7B.

[X] **Not Applicable** **The extent of contamination, and the local & site hydrogeology requirements have been fulfilled under the CAP Part A, therefore additional SIR reporting is not necessary.**

[ ] **Extent of Contamination:**

[ ] Soil [ ] Groundwater [ ] Free Product [ ] Surface water

[ ] **Local and Site Hydrogeology:**

[ ] Documentation of Local Groundwater Conditions

[ ] Stratigraphic Boring Logs

[ ] Stratigraphic Cross Sections

[ ] Referenced or Documented Calculations of Relevant Aquifer Parameters

[ ] Direction of Groundwater Flow

[ ] Table of Monitoring Well Data

[ ] Potentiometric Map

[ ] Flow Net Superimposed on a Base Map

III. REMEDIAL ACTION PLAN

A. Corrective Action Completed or In-Progress:

[ ] Not Applicable

[X] Recovery/Removal of Free Product (Non-Aqueous Phase Hydrocarbons)

[ ] Remediation/Treatment of Contaminated Soils

[ ] Other (specify)

_____

_____

B. Objectives of Corrective Action:

[ ] No Further Action

[X] Remove Free Product That Exceeds One-Eighth Inch

[ ] Remediate Groundwater Contamination That Exceeds:

[ ] Maximum Contaminant Levels (MCLs)

OR

[ ] In-stream Water Quality Standards

B. Objectives of Corrective Action (CONTINUED):

[ ] Remediate Soil Contamination That Exceeds:

[ ] Threshold Values Listed In Table A

OR

☐ Threshold Values Listed In Table B

OR

☐ Alternate Threshold Levels (ATLs) (Reference CAP A App. I)

☒ Provide Risk-Based Corrective Action (Reference CAP B App. I):

☒ Remediate Soil and/or Groundwater Contamination That Exceeds Alternate Concentration Limits (ACLs) and Monitor Residual Contaminants

OR

☐ Monitor Soil and/or Groundwater Contamination That Exceeds Levels In Rule – 391-3-15-.09(3).

C. Design and Operation of Corrective Action Systems:

☒Soil ☒Groundwater ☒Free Product ☐Surface water ☐Not Applicable

D. Implementation (MUST INCLUDE THE FOLLOWING):

NOTE: If No Further Action is proposed and none of the following apply, a brief explanation must be provided with the signed Certificate of Completion.

- Milestone schedule for proposed site activities

- Inspection and preventive maintenance schedule for all specialized remediation equipment

AND / OR

Monitoring/sampling and reporting plan for measuring interim progress and project completion

- Plan to decommission equipment/wells and close site

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IV. PUBLIC NOTICE:

- [ ] Not Applicable **The Corrective Action Objectives submitted and approved under the CAP-Part A have not changed.**
- [ ] Certified Letters to Adjacent, Potentially Affected Property Owners and Local Officials
- [x] Legal Notice in Newspaper, as approved by EPD
- [ ] Other EPD-approved Method (specify) _____

V. CLAIM FOR REIMBURSEMENT (For GUST Trust Fund sites only)

- [x] Not Applicable (specify) _____

- [ ] GUST Trust Fund Application - (attach if applicable)

- [ ] Cost Proposal:
  - [ ] A Total of All Costs Incurred To Date (MUST INCLUDE THE FOLLOWING):
    - ▶ Invoices and Proofs-of-Payment For All Costs Incurred To Date
    - ▶ Invoices itemized on the GUST-4D
    - ▶ All Non-Eligible Costs Clearly Identified as such
    - ▶ Incurred Costs Itemized per GUST-92 form or EPD provided form/specifications
  - [ ] A Total of Estimated Costs To Complete Corrective Action
    - ▶ Estimated Costs Itemized per GUST-92 form or EPD provided form or specifications
  - [ ] Total Project Costs

- [ ] Proposed Schedule For Reimbursement
  - [ ] Lump Sum Payment Upon Completion Of Corrective Action

    OR
  - [ ] Interim Payments With Final Payment Upon Completion

    OR
  - [ ] EPD Established Payment Schedule

2. Site Investigation Report

Former Pumphouse #1 was an aviation-gas fuel island located along the east-west taxiway of Hunter Army Airfield (HAAF) (Figure 2-1) that was used from about 1953 until the early 1970s. It consisted of ten 25,000-gallon underground storage tanks (USTs) and a 50,000-gallon underground defueling tank. Former USTs 30 through 39 and 50 at former Pumphouse #1, Facility ID #9-025085 were located near former Building 8060 at HAAF (Figure 2-1). The pumphouse was inactive from the 1970s to 1995. Eight of the 25,000-gal USTs were removed in 1995. The 50,000-gallon defueling tank and two of the 25,000-gallon tanks remained in-place, partially under the pumphouse structure. In 1998, the pumphouse structure was removed, along with the two remaining 25,000-gallon USTs, and the 50,000-gallon defueling tank was closed in-place. The piping from the boundary of the pumphouse facility to the bulk fuel farm was also drained, pigged, and grouted in-place.

Various closure activities and Corrective Action Plan (CAP)–Part A and CAP–Part B investigations were performed at the former Pumphouse #1 site between 1995 and 2000 (Figure 2-2). The former Pumphouse #1 investigations covered an area south of the active taxiway. CAP–Part A and CAP–Part B investigations were conducted at the Departure/Arrival Air Control Group (DAACG) facility in 1995 and 1996, respectively. These investigations covered the active tarmac north of the active taxiway. Review of the analytical data from all of the investigations indicated that it was necessary to combine the DAACG facility data and the former Pumphouse #1 data to document the nature and extent of contamination. As a result, the former Pumphouse #1 CAP–Part B Report (Science Applications International Corporation [SAIC] 2000) combined the results of all the investigations into a single report, which was submitted to the Georgia Environmental Protection Division (GA EPD) in August 2000 and subsequently approved.

As indicated in the former Pumphouse #1 CAP–Part B Report, two distinct and separate plumes are located within the vicinity of the former Pumphouse #1 site. Release #1 is an area of soil and groundwater contamination located near the DAACG facility that is in the vicinity of former Fuel Pits 1A and 1B, located approximately 900 feet (ft) west of former Building 8060 (i.e., Pumphouse #1). Release #2 is an area of soil and groundwater contamination located near the former Pumphouse #1 facility and former Fuel Pits 1C and 1D, located approximately 200 ft north of the former Tank Pits. The Release 1 and Release 2 areas are presented in Figure 2-2. The corrective actions at Release #1 and Release #2 are being addressed separately.

For the former Fuel Pit 1A/DAACG area (Release #1), the CAP–Part B Report recommended additional investigation activities to further delineate the extent of free product. In May 2000, an interim action to remove the free product through the use of

absorbent socks was implemented. Upon completion of the additional investigation, a CAP–Part B Addendum #1 Report (SAIC 2002) was prepared and subsequently approved by GA EPD that recommended groundwater extraction and free product removal in a manner to cause minimal impact to the active flight operations.

The use of absorbent socks for free product removal at Release #1 was continued until July 2003. An additional investigation was conducted in 2003 to further delineate the horizontal and vertical extent of the free product in the subsurface at Release #1 and Release #2 using cone-penetrometer-technology (CPT) equipment with fluorescence detection. The results of the investigation were presented in the *Data Summary Report for the 2003 Free Product CPT Investigation at Former Pumphouse #1* (SAIC 2004) and were also included as an appendix in the *Third Annual Monitoring Only Report for Former Pumphouse #1* (SAIC 2005).

Due to funding limitations, the corrective action described in the CAP–Part B Addendum #1 was not implemented. However, in an effort to address the free product, the interim action to remove free product through the use of absorbent socks was implemented again in 2004. In 2005, the free product removal method was changed to bi-monthly vacuum extraction (VE) from numerous wells located throughout Release #1. In 2006, a CAP-Part B Addendum #2 was prepared and subsequently approved by GA EPD that recommended quarterly VE of free product at four wells for at least 8 hours and annual monitoring of 30 wells. In 2007, enhanced fluid recovery (EFR) of free product was performed on a quarterly basis. Free product recovery was not performed in 2008. Annual sampling was conducted in December 2007 and December 2008. Additional soil and groundwater samples were collected in January 2008. The results of the 2008 investigation and monitoring activities are included within this report.

This Revised CAP–Part B Report is being submitted to the GA EPD Underground Storage Tank Management Program (USTMP) to present the 2008 investigation and sampling results and to change the remedial approach for the former Fuel Pit 1A/DAACG area (Release #1).

2.1 Regional, Local, and Site Hydrogeology

A discussion of the regional, local, and site hydrogeology was presented in previous CAP–Part B Reports and is summarized below.

2.1.1 Groundwater Usage

According to the *Groundwater Pollution Susceptibility Map of Georgia* (GA EPD 1992), the former Pumphouse #1 site, Facility ID #9-025085 is located within an average or higher groundwater pollution susceptibility area. Nine water supply wells are located within the confines of the HAAF area. These wells are installed in the

deeper Floridan limestone aquifer and have the potential to provide up to 3,890 gallons per minute (gpm) of water to occupants of the HAAF installation (SAIC 2006a). Impacts at Pumphouse #1 are confined to the shallow surficial aquifer, which is separated from the Floridan by a thick regional aquitard, the Hawthorne Group.

2.1.2 Aquifer Description

The hydrogeology in the vicinity of HAAF is mostly influenced by two aquifer systems, 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 to 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, the Ocala Group, and the Suwannee Limestone. Groundwater from the Floridan is used primarily for drinking water (Arora 1984).

The confining layer for the Floridan Aquifer is the phosphatic clay of the Hawthorn Group. 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. This aquifer is primarily used for domestic lawn and agricultural irrigation. The top of the water table ranges from approximately 2 to 10 ft below ground surface (bgs) (Miller 1990). Groundwater in the surficial aquifer system is under unconfined, or water table, conditions. Locally, however, thin clay beds create confined or semi-confined conditions. Groundwater encountered at HAAF Pumphouse #1 UST investigation sites is part of the surficial aquifer system.

2.1.3 Surface Water

The water resources survey conducted during the CAP–Part B site investigation was presented in the CAP– Part B Report (SAIC 2000) and CAP–Part B Addendum #1 Report (SAIC 2002). Surface water bodies at HAAF include Hallstrom Lake, Lamar Canal, Buckhalter Canal, Springfield Canal, Pond 29 located northwest of Buildings 336 and 232, and an unnamed pond located along the southeastern boundary of the HAAF installation. Several unnamed drainage canals and ditches exist throughout HAAF. Most of these canals drain southwest into the Little Ogeechee River, which is part of the Lower Ogeechee watershed. The remaining drainage canals located on the eastern side of the HAAF installation flow east and eventually drain into the Vernon River, which is located southeast of the HAAF installation. Surface water bodies at HAAF and adjacent areas are not used as public water supplies. The ponds and lakes, as well as Lamar Canal, are perennial, whereas most of the drainage canals and ditches are intermittent. Most of the drainage canals are at least partially enclosed in culverts (SAIC 2006a).

2.1.4 Site Stratigraphy

The lithology encountered at the site is predominantly a white, pale brown, or light gray, very fine to medium-grained sand, with variable silt and clay content. Generally, the samples with higher silt and clay content were within a few feet of the surface. Less silt and clay content was noted with depth. The boring log of deep well P1-MW40 indicates increasing clay content from approximately 26 to 30 ft bgs, becoming a clayey, coarse-grained sand/gravel at 30 ft bgs.

2.1.5 Referenced or Documented Calculations

The following referenced or documented calculations were performed to support the CAP-Part B Site Investigation and were included in the CAP-Part B (SAIC 2000).

Disturbed soil samples were collected from eight monitor wells for grain-size analysis. In addition, undisturbed soil samples were collected from four monitor wells and a soil boring to determine selected engineering properties of the unsaturated zone at the site. The engineering properties measured included moisture content, porosity, specific gravity, bulk density and permeability.

Slug tests were conducted on two shallow and one deep well. The slug test data were evaluated using AQTESOLVE software. The calculated hydraulic conductivity values were 1.31×10^{-2} feet per minute (ft/min) (6.7×10^{-3} centimeters per second (cm/s) and 1.76×10^{-2} ft/min (8.9×10^{-3} cm/s in the shallow wells and 4.6×10^{-3} ft/min (2.3×10^{-3} cm/s) in the deep well. The average hydraulic conductivity based on slug test data is 1.17×10^{-2} ft/min (6.0×10^{-3} cm/s).

Aquifer testing (8-hour step test) was performed to determine the optimum pumping rate for the well. Pumping data yielded a transmissivity of 0.4035 ft^2/min assuming a saturated aquifer thickness of 60 ft (K = 0.0067 ft/min). The recovery data produced a transmissitvity of 0.089 ft^2/min assuming a saturated thickness of 60 ft.

2.1.6 Direction of Groundwater Flow

Historical water level measurements (Table 2-1) were taken during monitoring events to evaluate the directional flow in groundwater. Groundwater in the vicinity of the former Fuel Pit 1A/DAACG area was determined to flow generally to the northwest. Groundwater potentiometric surface measurements taken in December 2006, December 2007, and December 2008 are presented on Figures 2-3, 2-4 and 2-5, respectively. These annual water level measurements have consistently confirmed groundwater flow to the northwest.

2.2 Horizontal and Vertical Extent of Contamination

The horizontal and vertical extent of petroleum-related contamination in soil and groundwater was delineated by activities performed during the previous investigations at the former Pumphouse #1 site and the DAACG facility, which were documented in the CAP–Part B Report (SAIC 2000), the CAP–Part B Addendum #1 Report (SAIC 2002), and the CAP–Part B Addendum #2 Report (SAIC 2006a). Since the CAP-Part B Addendum #2, additional data have been obtained through annual sampling of monitor wells and a supplemental investigation using direct-push technology (DPT) conducted in January 2008. A summary of the results from these investigations is presented below.

2.2.1 Delineation of Soil Contamination

In the vicinity of the former Fuel Pit 1A/DAACG area (Release #1), the horizontal extent of petroleum-related contamination in soil was determined during the CAP-Part B site investigation and was discussed in detail in the CAP–Part B Report (SAIC 2000). Concentrations of benzene, toluene, ethylbenzene, benzo(*a*)pyrene, benzo(*b*)fluoranthene, chrysene, and indeno(1,2,3-*cd*)pyrene exceeded the applicable Georgia Underground Storage Tank (GUST) Soil Threshold Levels (STLs) (i.e., Table B, Column 1), and concentrations of benzene, benzo(*a*)pyrene, chrysene, and indeno(1,2,3-*cd*)pyrene exceeded their respective Alternate Threshold Levels (ATLs). Benzene was the only constituent in soil to exceed its ATL of 9.3 milligrams per kilogram (mg/kg) in six boring locations. Benzo(*a*)pyrene, chrysene, and indeno(1,2,3-*cd*)pyrene concentrations in one soil sample exceeded the ATLs of 1.4, 2.1, and 0.66 mg/kg, respectively. The referenced report included the conclusion that the soil samples with these concentrations exceeding the ATLs were collected from the capillary fringe above the soil/water interface in the area of free product, and the presence of free product may have contributed to the high concentrations. The report authors also noted that the soil contamination exceeding ATLs was determined to follow the area of free product and groundwater contamination.

In January 2008, 45 soil borings were advanced to the groundwater table using DPT within the area of soil contamination that was previously identified in the CAP–Part B Report (SAIC 2000). Borehole installation and boring logs are provided in Appendix A. One soil sample was collected from each boring at the depth interval with the highest photoionization detector (PID) field screening reading. The soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) using the U.S. Environmental Protection Agency (USEPA) Method 8021B/8260B, polynuclear aromatic hydrocarbons (PAHs) using USEPA Method 8270C, and lead using USEPA Method 6010B. The analytical results from the soil sampling are summarized in Tables 2-2 and 2-3 and Figures 2-6 and 2-7. The January 2008 supplemental soil investigation data did not include any detections of BTEX or PAHs that exceeded the

approved ATL.

Lead was detected in all 45 soil borings. Since there is no STL value under the GUST regulations, the data were compared against the Hazardous Site Response Act (HSRA) Type 1 and Type 3 Risk Reduction Standards (RRS) concentrations of 75 and 400 mg/kg, respectively. Results from two locations (DB-35 and DB-41) exceeded the Type 1 RRS for residential use scenarios at concentrations of 104 mg/kg and 127 mg/kg, respectively (SAIC, 2008a). However, no concentrations exceeded the Type 3 RRS for non-residential use.

The analytical results of the January 2008 supplemental investigation are summarized below (SAIC 2008a).

- Benzene was detected in 4 of 45 samples at concentrations ranging from 0.000609J to 0.259J mg/kg. There were seven samples with elevated detection limits greater than 0.1 mg/kg. The concentrations did not exceed the approved ATL of 9.3 mg/kg.

- Toluene was detected in 31 of 45 samples at concentrations ranging from 0.000454J to 52 mg/kg. The concentrations did not exceed the approved ATL of 479 mg/kg.

- Ethylbenzene was detected in 35 of 45 samples at concentrations ranging from 0.000313J to 16.2 mg/kg. The concentrations did not exceed the approved ATL of 187 mg/kg.

- Xylenes (total) were detected in 45 of 45 samples at concentrations ranging from 0.000302J to 74 mg/kg. The concentrations did not exceed the approved ATL of 893 mg/kg.

- 2-Methylnaphthalene was detected in 24 of 45 samples at concentrations ranging from 0.00796J to 0.273 mg/kg. There is no STL value for this constituent.

- Acenaphthene was detected in 6 of 45 samples at concentrations ranging from 0.0175J to 0.046 mg/kg. There is no STL for this constituent.

- Acenaphthylene was detected in 1 of 45 samples at a concentration of 0.201 mg/kg. Acenaphthylene is not listed in Table B, Column 1 of Chapter 391-3-15-.09; however, using acenaphthene as a surrogate chemical, there would be no STL.

- Anthracene was detected in 9 of 45 samples at concentrations ranging from 0.00718J to 0.0709 mg/kg. There is no STL for this constituent.

- Benzo(*a*)anthracene was detected in 7 of 45 samples at concentrations ranging from 0.0115J to 0.914 mg/kg. One of the concentrations exceeded the STL of 0.66 mg/kg. An ATL was not calculated for this constituent as part of the CAP–Part B Report. The same methodology used for the other constituents would give an ATL of 4.7 mg/kg (i.e., ATL = Koc × fcs ×Cstd × DAFw = 125,719 mL/g × 0.0117 × 4.9E-05 mg/L × 65.8 = 4.7 mg/kg). None of the concentrations exceeded this potential ATL.

- Benzo(*a*)pyrene was detected in 3 of 45 samples at concentrations ranging from 0.013J to 0.656 mg/kg. None of the concentrations exceeded the STL of 0.66 mg/kg or the approved ATL of 1.4 mg/kg.

- Benzo(*b*)fluoranthene was detected in 7 of 45 samples at concentrations ranging from 0.0129J to 0.965 mg/kg. One of the concentrations exceeded the STL of 0.66 mg/kg, but did not exceed the approved ATL of 5.8 mg/kg.

- Benzo(*g,h,i*)perylene was detected in 1 of 45 samples at a concentration of 0.0125J mg/kg. The concentration did not exceed the STL of 0.66 mg/kg.

- Benzo(*k*)fluoranthene was detected in 1 of 45 samples at a concentration of 0.431 mg/kg. The concentration did not exceed the STL of 0.66 mg/kg.

- Chrysene was detected in 6 of 45 samples at concentrations ranging from 0.0122J to 1.03 mg/kg. One of the concentrations exceeded the STL of 0.66 mg/kg, but did not exceed the approved ATL of 2.1 mg/kg.

- Dibenz(*a,h*)anthracene was detected in 1 of 45 samples at a concentration of 0.175 mg/kg. The concentration did not exceed the STL of 0.66 mg/kg.

- Fluoranthene was detected in 19 of 45 samples at concentrations ranging from 0.0152J to 0.946 mg/kg. There is no STL for this constituent.

- Fluorene was detected in 18 of 45 samples at concentrations ranging from 0.0108J to 0.115 mg/kg. There is no STL for this constituent.

- Indeno(1,2,3-*cd*)pyrene was detected in 1 of 45 samples at a concentration of 0.351 mg/kg. The concentration did not exceed the STL of 0.66 mg/kg or the approved ATL of 0.66 mg/kg.

- Naphthalene was detected in 9 of 45 samples at concentrations ranging from 0.0245J to 0.142 mg/kg. There is no STL for this constituent.

- Phenanthrene was detected in 20 of 45 samples at concentrations ranging from 0.0118J to 0.332 mg/kg. There is no STL for this constituent.

- Pyrene was detected in 16 of 45 samples at concentrations ranging from

0.0129J to 1.83 mg/kg. There is no STL for this constituent.

- Lead was detected in 45 of 45 samples at concentrations ranging from 0.987J to 127 mg/kg. Lead is not listed in Table B, Column 1 of Chapter 391-3-15-.09. The Type 1 or Type 3 RRS from Chapter 391-3-19-.07 HSRA were utilized as applicable regulatory concentrations due to the known historical presence of lead in aviation fuel. The concentrations in two samples exceed the Type 1 RRS (Table 2, Chapter 391-3-19, Appendix III) of 75 mg/kg. None of the concentrations exceeded the Type 3 RRS [Chapter 391-3-19-.07(8)(d)(iii)] of 400 mg/kg.

2.2.2 Delineation of Groundwater Contamination

In the vicinity of the former Fuel Pit 1A/DAACG area (Release #1), the horizontal and vertical extent of petroleum-related contamination in groundwater was determined during the site investigations and was discussed in detail in the CAP–Part B Report (SAIC 2000) and CAP–Part B Addendum #1 Report (SAIC 2002). Benzene, ethylbenzene, toluene, benzo(*a*)pyrene, chrysene, and naphthalene were identified as chemicals of potential concern (COPCs) for groundwater. Based on the results of fate and transport (F&T) modeling, alternate concentration limits (ACLs) were calculated for these constituents. Benzene was the only constituent at the former Fuel Pit 1A/DAACG area (Release #1) to exceed its In-Stream Water Quality Standard (IWQS) and ACL during the site investigations. An ACL of 285 micrograms per liter (µg/L) was proposed for benzene in groundwater and subsequently approved by GA EPD.

During the first annual sampling event in December 2006, benzene was detected in 18 of 30 groundwater samples at concentrations ranging from 1.42 to 399 µg/L. The benzene concentrations for nine samples exceeded the IWQS of 51 µg/L. The concentration in the sample from well D-MW02 exceeded the ACL of 285 µg/L. None of the other constituents exceeded their respective IWQSs or ACLs (SAIC 2007). The groundwater concentration data from December 2006 are presented on Figure 2-8.

During the second annual sampling event in December 2007, 30 monitor wells were sampled for analysis of BTEX using U.SEPA Method 8021B/8260B, PAHs using USEPA Method 8270C and lead using USEPA Method 6010B. Benzene was detected in 19 of 30 groundwater samples at concentrations ranging from 1.02 to 935 µg/L. The benzene concentrations for ten samples (D-MW02, D-MW08, D-MW11, D-MW17, D-MW19, D-MW33, D-MW34, D-MW35, D-MW36, and D-MW37) exceeded the IWQS of 51 µg/L. The benzene concentrations in wells D-MW34 and D-MW35 exceeded the ACL of 285 µg/L in (Figure 2-9). Lead exceeded the IWQS of 30 µg/L

in three samples (D-MW34, D-MW35, and D-MW38) (Figure 2-10). Toluene in D-MW17 was the only other constituent that exceeded the respective IWQSs or ACLs.

During the January 2008 supplemental investigation, the 45 soil borings that were discussed above for soil sampling were advanced with DPT to the groundwater table within the area of groundwater contamination that was identified in the CAP–Part B Report (SAIC 2000). One groundwater sample was collected from each boring from a 4-ft interval just below the soil/water interface. The groundwater samples were analyzed for BTEX using USEPA Method 8021B/8260B, PAHs using USEPA Method 8270C, and lead using USEPA Method 6010B (Appendix C). The analytical results from the soil sampling are summarized in Tables 2-4 and 2-5 and illustrated on Figure 2-11. Benzene was detected in groundwater from 12 borings at concentrations that exceeded the IWQS of 51 ug/L (Table 2-4). Benzene was detected in groundwater from eight soil borings at concentrations that exceeded the ACL of 285 ug/L. One sample (D-DB-45) had detected concentrations of benzo(a)anthracene and chrysene that exceeded their respective IWQSs (Table 2-5). Lead concentrations in groundwater exceeded the IWQS of 30 ug/L in samples from 15 of the 45 borings.

The analytical results of the January 2008 supplemental investigation are summarized as follows.

- Benzene was detected in 33 of 45 samples at concentrations ranging from 0.399J to 1,360 µg/L. The concentrations in 19 samples exceeded the IWQS of 51 µg/L, and the concentrations in 8 samples exceeded the ACL of 285 µg/L.

- Toluene was detected in 40 of 45 samples at concentrations ranging from 0.27J to 10,100 µg/L. Four of the concentrations exceeded the IWQS of 5,980 µg/L.

- Ethylbenzene was detected in 40 of 45 samples at concentrations ranging from 0.252J to 1,500 µg/L. None of the concentrations exceeded the IWQS of 2,100 µg/L.

- Total xylenes were detected in 41 of 45 samples at concentrations ranging from 0.264J to 5,670 µg/L. There is no ACL or IWQS for total xylenes. The concentrations did not exceed the maximum contaminant level (MCL) of 10,000 µg/L.

- 2-Methylnaphthalene was detected in 23 of 44 samples at concentrations ranging from 0.385J to 3.41 µg/L. There is no IWQS or ACL for 2-methylnaphthalene.

- Benzo(*a*)anthracene was detected in 1 of 44 samples at a concentration of 0.528J µg/L. The concentration exceeded the IWQS of 0.018 µg/L, but did not

exceed the ACL of 1.2 µg/L.

- Benzo(*b*)fluoranthene was detected in 1 of 44 samples at a concentration of 0.294J µg/L. There is no IWQS for benzo(*b*)fluoranthene. The concentration did not exceed the ACL of 3.6 µg/L.

- Chrysene was detected in 1 of 44 samples at a concentration of 0.386J µg/L. The concentration exceeded the IWQS of 0.018 µg/L, but did not exceed the ACL of 1.2 µg/L.

- Fluorene was detected in 1 of 44 samples at a concentration of 0.349J µg/L. The concentration did not exceed the IWQS of 5,300 µg/L.

- Naphthalene was detected in 28 of 44 samples at concentrations ranging from 0.441J to 14.2 µg/L. There is no IWQS for naphthalene. The concentrations did not exceed the ACL of 260 µg/L.

- Phenanthrene was detected in 2 of 44 samples at concentrations of 0.328J and 0.528J µg/L. There is no IWQS or ACL for phenanthrene.

- Pyrene was detected in 1 of 44 samples at a concentration of 0.668J µg/L. The concentration did not exceed the IWQS of 4,000 µg/L.

- Lead was detected in 43 of 44 samples at concentrations ranging from 0.27J to 204 µg/L. The concentrations in 15 samples exceeded the IWQS of 30 µg/L.

During the third annual sampling event in December 2008, 25 monitor wells were sampled for analysis of BTEX using U.SEPA Method 8260B and lead using USEPA Method 6010B. All groundwater and surface water samples collected were analyzed by a certified laboratory as listed in the Site-Wide Quality Assurance Project Plan (QAPP) (ARCADIS 2008). Field laboratory data included quality control samples, and all data were reviewed by the project chemistry team. All data reported by Shealy Laboratory were evaluated in accordance with the Level II validation protocols set forth in the Site-Wide QAPP (ARCADIS 2008). Field parameters from each well that were sampled are provided in Table 2-6. The analytical results are provided in Table 2-7a and Appendix D and illustrated in Figures 2-10 and 2-12. Historical groundwater analytical results are provided in Table 2-7b and Table 2-7c.

Analytical results from the sampling event are summarized below.

- Benzene was detected in 18 of 25 groundwater samples at concentrations ranging from 2.7 to 490J µg/L. The concentrations in eight samples exceeded the IWQS of 51 µg/L and in two samples exceeded the ACL of 285 µg/L.

- Toluene was detected in 18 of 25 groundwater samples at concentrations ranging from 1.7 to 4,900J µg/L. The concentrations did not exceed the IWQS or ACL.

- Ethylbenzene was detected in 21 of 25 groundwater samples at concentrations ranging from 1.4 to 2,500 µg/L. The concentrations did not exceed the IWQS or ACL.

- Total xylenes were detected in 20 of 25 groundwater samples at concentrations ranging from 1.9 to 2,700 µg/L. There is no ACL or IWQS for total xylenes.

- Lead was detected in 5 of 25 groundwater samples at concentrations ranging from 10 to 130 µg/L. The concentrations in two samples exceeded the IWQS of 30 µg/L.

2.2.3 Delineation of Free Product

Free product was identified at the former Fuel Pit 1A/DAACG area (Release #1) in February 2000. The free product was observed in wells D-MW1, D-MW2, D-MW8, D-MW11, D-MW13, and D-MW17 at thicknesses ranging from sheen to 0.88 ft. The horizontal extent of the free product was bounded by existing wells at the site.

In February 2001, 11 4-inch monitor wells (D-MW33 through D-MW43) were installed to supplement CAP–Part B investigation activities at this site. In March and July 2001, field bailout tests were conducted in wells D-MW2, D-MW34, and D-MW35 using the field bailout test method (Gruszczenski 1987). The results of the field bailout tests were presented in the CAP–Part B Addendum #1 Report (SAIC 2002). The thickest and most recoverable portion of the free product plume was located in the vicinity of wells D-MW2, D-MW34, and D-MW35.

In September/October 2003, additional activities were performed with CPT equipment with fluorescence detection to delineate the horizontal and vertical extent of the free product at both Release #1 and Release #2. The investigation concluded that the likely zones of nonaqueous-phase liquid (NAPL) contamination tend to occur between 6 and 13 ft bgs, which is in the vicinity of the water table and smear zone, and at a thickness ranging from 1 to 5 ft.

Absorbent socks were used in numerous wells associated with Release #1 between February 2000 and March 2005. Beginning in June 2005, bi-monthly VE activities were initiated on wells located throughout Release #1 area. The quantity of the water/product mixture varied from well to well. Subsequent report authors concluded

that the amount of free product removed from each well was very small (i.e., less than 0.5 gallon). In 2006, the free product removal method was changed to quarterly vacuum extraction at four wells for at least 8 hours. A summary of the free product thickness measured during the absorbent sock replacement or VE activities from June 2004 to January 2006 is provided in Table 2-8. In 2004, 2005 and 2006, the thickness ranged from sheen to 0.10 ft. In 2007, enhanced fluid recovery techniques were employed for free product removal on a quarterly basis in four wells across the site. The thickness ranged from sheen to 0.75 ft. The results of those activities are summarized in Table 2-9. Free product was not present in monitor wells measured in December 2007 or December 2008.

2.2.4 Delineation of Surface Water and Sediment Contamination

Results from the surface water and sediment samples collected during the CAP–Part B investigation were discussed in the CAP–Part B Report (SAIC 2000). BTEX constituents were collected in February 1999 from locations downgradient of the Release #1 area. The locations were approved in advance by GA EPD in January 1999. Some BTEX constituents were detected in the surface water samples but concentrations were below the IWQS. No PAH constituents were detected in the surface water samples. Low concentrations of total petroleum hydrocarbons and PAHs were detected in some of the sediment samples taken in December 1996. Additional sediment samples were not required by GA EPD.

3. Remedial Action Plan

3.1 Corrective Action Completed or in Progress

3.1.1 Recovery/Removal of Free Product

During sampling activities in February 2000, free product was measured in six wells at thicknesses from 0.01 to 0.74 ft. Absorbent socks were placed in each well following these measurements on February 24, 2000. As an interim action, the absorbent socks were removed and replaced in wells with free product on a bi-monthly basis from May 2000 through June 2003 and September 2004 through May 2005.

Beginning in June 2005, bi-monthly VE activities were initiated on approximately 50 wells located throughout the Release #1 and Release #2 areas. Reports on the VE events stated that the quantity of free product removed from each well was very small (i.e., less than 0.5 gallon). The results of these free product removal activities were presented in the CAP–Part B Addendum #1 Report (SAIC 2002) and the 2004-2005 Free Product Removal Report (SAIC 2006b).

In 2006, the free product removal method was changed to quarterly VE at four wells for a minimum of 8 hours. In 2007, EFR techniques were used for free product removal on a quarterly basis in the four wells with the greatest amount of free product (Table 2-9). The quantity of free product recovered continued to be small with most mass recovered in the vapor phase.

3.1.2 Remediation/Treatment of Contaminated Backfill Material and Native Soil

No contaminated backfill material or native soil associated with the former Fuel Pit 1A/DAACG area (Release #1) has been excavated, remediated, or treated.

3.2 Objectives of Corrective Action

3.2.1 Remove Free Product That Exceeds One-Eighth Inch at the Former Fuel Pit 1A/DAACG Area (Release #1)

The previously approved CAPs included the primary goal of removing free product in exceeding 1/8 inch thickness. Free product in excess of 1/8 inch has not been detected in monitor wells from June 2004 through December 2008. From June 2004

through 2006, free product was detected sporadically in CPT wells and all thickness measurements were less than 0.1 ft. During the quarterly measurements prior to VE events in 2007, four free product measurements (three in April and one in July) were reported above 0.01 ft. Recovery results indicated very little mobile (recoverable) mass. Liquid levels will be measured during future monitoring events to confirm the absence of free product at a thickness greater than 1/8 inch. EFR utilizing a vacuum truck will be invoked as the corrective action if free product is detected in recoverable quantities.

3.2.2 Remediate Groundwater Contamination at the Former Fuel Pit 1A/DAACG Area (Release #1)

As discussed in the CAP–Part B Report (SAIC 2000), previous investigations documented benzene contamination in groundwater at the former Fuel Pit 1A/DAACG area (Release #1) at concentrations that exceeded the IWQS of 51 µg/L and the ACL of 285 µg/L. The objectives of the corrective action for groundwater are to reduce the concentrations of the contaminants of concern to below ACLs approved in the CAP-Part B (SAIC 2000).

Three samples from monitor wells sampled in December 2007 contained lead concentrations above the IWQS of 30 µg/L. A total of four groundwater samples, including two sets of primary and duplicate samples collected from monitor wells in December 2008 contained lead concentrations above the IWQS. During the supplemental DPT investigation conducted in January 2008, lead was detected in 43 of 44 groundwater samples at concentrations ranging from 0.27J to 204 µg/L. The concentrations in 15 samples exceeded the IWQS of 30 µg/L. It should be noted that the samples from monitor wells were obtained utilizing low-flow purging techniques and all turbidity readings were less than 5 Nephelometric Turbidity Units (NTU). The samples obtained during the supplemental investigation were obtained with DPT and sample turbidity is not known. The samples taken with DPT were likely affected by higher turbidity and the monitor well samples are likely more indicative of the groundwater impacted by lead.

3.2.3 Remediate Soil Contamination at the Former Fuel Pit 1A/DAACG Area (Release #1)

The objective of the corrective action is to reduce concentrations of soil contaminants exceeding ATLs approved in the CAP-Part B (SAIC 2000). Data from the DPT soil sampling conducted in January 2008 demonstrated that concentrations of BTEX and PAHs are below their respective ATLs across the Release #1 area.

In data from DPT soil sampling conducted in January 2008, lead exceeded the Type 1 RRS of 75 mg/kg in two locations (D-DB-35 and D-DB-41), which are in the areas

impacted by petroleum hydrocarbons. There were not any soil lead concentrations that exceeded the Type 3 RRS of 400 mg/kg. Since the area is an active air field, the Type 3 RRS (Industrial) are likely to be most applicable.

3.2.4 Provide Risk-Based Corrective Action

A risk-based approach was used in the CAP–Part B Report (SAIC 2000) to identify COPCs for soil and groundwater and to develop ATLs and ACLs for various constituents. The results of the risk screening for Release #1 were presented in the CAP–Part B Report (SAIC 2000) and the results are summarized below.

Benzene, ethylbenzene, toluene, xylenes, benzo(*a*)pyrene, benzo(*b*)fluoranthene, chrysene, and indeno(1,2,3-*cd*)pyrene were identified as COPCs for soil. ATLs of 9.3 mg/kg for benzene, 187 mg/kg for ethylbenzene, 479 mg/kg for toluene, 893 mg/kg for xylenes, 1.4 mg/kg for benzo(*a*)pyrene, 5.8 mg/kg for benzo(*b*)fluoranthene, 2.1 mg/kg chrysene, and 0.66 mg/kg for indeno(1,2,3-*cd*)pyrene were proposed in the CAP–Part B Report (SAIC 2000).

Benzene, ethylbenzene, toluene, benzo(*a*)pyrene, chrysene, and naphthalene were identified as COPCs for groundwater. ACLs of 285 µg/L for benzene; 114,800 µg/L for ethylbenzene; 800,000 µg/L for toluene; 1.2 µg/L for benzo(*a*)pyrene; 1.2 µg/L for chrysene; and 260 µg/L for naphthalene were proposed in the CAP–Part B Report (SAIC 2000). The ATLs and ACLs were approved by GA EPD in correspondence dated December 18, 2000 (Logan 2000).

F&T modeling results were provided in the CAP–Part B Report (SAIC 2000). A storm drain located 230 ft northeast (downgradient) of the center of the plume was identified as the nearest possible location at which a receptor might encounter migrating groundwater contamination. Due to the proximity of Releases #1 and #2, the most conservative F&T modeling results were used for developing one set of ACLs and ATLs for both areas of contamination (SAIC 2000).

The CAP-Part B site investigation did not include analyses of soil or groundwater samples for lead. Lead was not identified as a COPC and risk based standards were not developed for lead in soil or groundwater. The proposed applicable standards for lead are the IWQS for groundwater and the HSRA Type III RRS for soil.

3.2.5 Conclusions and Recommendation

The following conclusions are based on the results discussed above:

- Recent thickness measurements indicate that very little mobile free product remains.
- Soil petroleum hydrocarbon concentrations are below ATLs.
- Groundwater petroleum hydrocarbon concentrations indicate that the groundwater impacted above ACLs is located in the area previously identified in the CAP-Part B as having the largest free product quantities.
- Lead concentrations in soil exceed the HSRA Type I RRS but not the Type III RRS.
- Lead concentrations in groundwater exceeded the IWQS in samples from three monitor wells. Lead concentrations detected in DPT groundwater samples were likely affected by turbidity and may not be representative.

3.3 Design and Operation of Corrective Action

3.3.1 Basis for Selection

The corrective action for the groundwater plume at the former Fuel Pit 1A/DAACG area should consist of alternatives that are protective of the environment, but can be implemented in a manner that causes minimal disruption of the active military flight operations. In previous CAPs, monitored natural attenuation (MNA) was selected as the most viable alternative once the free product had been removed because (1) the free product was continuing to act as a source for the groundwater contamination, and (2) the maximum benzene concentrations during the CAP–Part B and supplemental investigations were less than three times the ACL. The strategy was that MNA would provide for monitoring of the groundwater plume without impacting the military flight operations. The recommended corrective action for groundwater consisted of free product removal in conjunction with MNA of the groundwater plume until the free product was removed. At that point, the corrective action would be re-evaluated. After free product was reduced to less than 1/8 inch or agreed upon limits of recoverable mass, soil sampling of hot spots would be conducted to confirm soil contaminant concentrations were below ATLs.

Based on recent free product measurements, free product is no longer present at recoverable quantities and is less than 1/8 inch in thickness in monitor wells.

Soil sampling confirmed that all contaminants of concern previously identified in the CAP site investigation are below ATLs. Therefore, remediation of soil for petroleum hydrocarbon related contaminants is not necessary.

The groundwater areas identified as impacted with benzene concentrations above the ACL through data from monitor wells and the January 2008 DPT samples are similar and match the area noted in the CAP-Part B (MW-2, 34, 35) as containing the most free product (SAIC 2002) (Figure 3-1). This remedial target area for hydrocarbon remediation and the existing wells in the area are presented in Figure 3-2.

The lead concentrations in soil are below the HSRA Type III RRS and active remediation is not recommended. The groundwater areas impacted by lead above IWQS based on the monitor well sample data from December 2007 and December 2008 (MW34 and 35 and 38 [2007 only]) matches target area for benzene remediation. The DPT sampling results indicated that lead was present in groundwater samples at levels exceeding IWQS across a larger area. However, the elevated concentration of lead is likely attributable to turbid groundwater samples. Low-flow groundwater sampling conducted at the site before (December 2007) and after (December 2008) supported this hypothesis. The remedy for benzene will be selected with the goal of mitigating the lead concentration in groundwater.

In selecting the corrective action for the former Fuel Pit 1A/DAACG area, the following items were taken into consideration:

(1) A separate phase immobile residual is likely acting as a continuing source for groundwater contamination, and the fluctuations in concentrations are at least partially attributable to groundwater elevation changes. The variation of groundwater elevations with time is presented on Figure 3-3.

(2) For most monitor wells, the benzene concentrations in groundwater increased in December 2007 and decreased slightly in December 2008. Overall, benzene concentrations have decreased since the initial CAP site investigation. The variation of benzene concentrations with time is presented on Figure 3-4.

(3) There are active military flight operations in the area.

(4) Wells in the impacted area are oxygen depleted and biodegradation may be limited by terminal electron acceptor (TEA) availability.

(5) The remedy for dissolved benzene should be beneficial to mitigation of the dissolved lead.

The first phase of the corrective action strategy, consisting of removing the recoverable (mobile) free product, has been substantially completed, and no further free product recovery activities are recommended at this time. Free product has been detected periodically in some wells and appears to correlate with fluctuations in groundwater elevation. Free product thickness versus groundwater elevation is

presented for two wells most frequently manifesting free product in Figure 3-5 and Figure 3-6. Continued monitoring of CPT and monitor wells for free product should continue. Soil COPC concentrations were below ATLs and soil remediation is not necessary. The final phase of the corrective action is remediation of groundwater to below ACLs. Due to the oxygen limited conditions in groundwater, remediation through MNA may result in an extended timeframe. Therefore, an active corrective action addressing the remaining smear zone and groundwater contamination is recommended.

The primary focus of the alternative evaluation was to find a cost-effective method of remediating the site with minimal impact to the military flight operations. Therefore, more intrusive technologies such as six phase heating, pump and treat and air sparging with soil vapor extraction were eliminated from consideration. Mass transfer enhancements such as surfactant washing will be considered at a later date if concentration data indicate that a significant residual NAPL will result in an extended remediation timeframe. Because of the relatively low dissolved mass and contamination being located under the air field, aggressive chemical oxidation was not considered.

Therefore, enhanced bioremediation remedial alternatives were the focus of consideration. The first step in implementation of bioremediation is determination of biogeochemical characteristics of the aquifer. The proposed analyses are listed in Section 3.3.3. After these data are obtained, the bioremediation approach will be optimized. Either oxygen or sulfate will be selected as the most appropriate electron acceptor. Data indicate that oxygen is depleted in the plume area, but data are not available on other electron acceptors or sources of oxygen demand. There are no data on sulfate concentrations at the site but if sulfate depletion in the plume is determined, sulfate addition can be an effective remedy. If sulfate is determined to be the optimal TEA, a sulfate solution created by adding sulfate salts to potable water could be injected through existing or newly installed wells. If oxygen is selected as the optimal electron acceptor, a number of methods would be evaluated. An oxygen releasing substrate (calcium peroxide or other) could be slurried and injected with DPT into the target interval. Another alternative is injection of oxygenated groundwater through CPT points previously used for free product monitoring and recovery. Any gaps in coverage determined during the initial injection would be remedied by installation of additional injection wells. The groundwater could be oxygenated through gas diffusion technology, inline gas/liquid contactor or low concentrations of hydrogen peroxide. Nutrients would be added to the groundwater prior to injection if in-situ nutrient limits are determined to exist.

3.3.2 Theory and Feasibility

Dissolved-phase hydrocarbons above ACLs exist in the groundwater beneath the site. Water table elevation changes result in fluctuations in dissolved concentrations as the groundwater contacts residual source mass that is located in the smear zone. The dissolved BTEX compounds are potentially both aerobically and anaerobically biodegradable by bacteria, which already exist in the subsurface. The dissolved oxygen concentration in groundwater is less than 1 mg/L in impacted areas. Data are not available for other electron acceptors, but electron acceptor availability is likely a factor limiting biodegradation. Other encumbrances to bacterial metabolism, such as low nutrient concentrations, may also be minor factors limiting biodegradation. Therefore, as a first step, a data set will be collected to evaluate biogeochemical conditions within the affected shallow aquifer. Based on these data, an optimal electron acceptor will be selected for addition to the shallow groundwater with the goal of increasing the rate of biodegradation of benzene. Nutrients will be added to the water if determined to be beneficial. The electron acceptor will be added at a frequency determined from baseline biogeochemical data and subsequently from monitoring of the initial injection. The application can be through existing CPT wells formerly used to monitor and recover free product, through DPT points or through newly installed injection wells. The monitor wells currently used to monitor the plume will be utilized to obtain samples to evaluate remediation progress. The injection rate and total TEA mass will be determined based on the calculated TEA demand and the optimal injection rates determined during first injection activity.

3.3.3 Remediation System

The first task will be sampling of selected monitor wells for analysis of biogeochemical parameters. Samples will be taken from monitor wells D-MW1, D-MW2, D-MW11, D-MW34, D-MW35, D-MW37, D-MW19, D-MW41 and D-MW42. Samples from D-MW41 and D-MW42 will be used to establish background conditions. Samples will be analyzed for the following:

- Dissolved Organic Carbon (DOC)
- Alkalinity
- Total Phosphorus (two monitor wells)
- Total (Kjedahl) Nitrogen (two monitor wells)
- Nitrogen as Nitrate
- Total/Dissolved Fe
- Sulfate
- Sulfide

- Oxidation Reduction Potential (ORP)
- pH
- Dissolved Oxygen (DO)
- Methane
- Volatile Organic Compounds (VOCs)
- Total Petroleum Hydrocarbons (TPH)
- Total/dissolved lead
- Lead speciation (organic and inorganic forms in two monitor wells)

If sulfate is determined to be a significant TEA at the site based on the results of these analyses, Biotrap® samplers will be installed in two wells to confirm the presence of sulfate-reducing bacteria. These are passive sampling devices that can be installed in standard monitor wells to permit representative sampling of the bacterial community in the aquifer. The samplers would be left in place for approximately 45 days to collect time integrated bacterial samples. A Performance Report will be generated utilizing these data and submitted to GA EPD. The Performance Report will summarize the biogeochemical data and will describe the rationale for selection of the optimal electron acceptor (oxygen or sulfate). Initial estimates of TEA requirements and nutrient requirements will also be made.

The first injection of the TEA solution or slurry will be conducted in accordance with injection rates estimated from existing site hydrogeological data. Addition rates and distribution area and aquifer chemistry will be evaluated and subsequent injection strategy will be adjusted. For injection through existing wells, a tracer may be added and surrounding wells sampled for analysis of tracer concentration. The effects of the first bioremediation injection will be monitored for a time period appropriate to the selected technology (likely 4 to 6 months). After sufficient post-injection monitoring data are collected, a second Performance Report will be submitted for GA EPD review. The report will present the data set and recommended optimizations for the bioremediation approach.

The subsequent remediation approach will consist of periodic addition of TEA and possibly nutrients to enhance biodegradation. The specific frequency and volumes will be determined and explained in the report. In addition to the annual sampling described below, monitoring of each injection event will be conducted quarterly. GA EPD will be notified if a change to the frequency of monitoring activities is proposed. After evaluation of baseline biogeochemical data and determination of the strategy for the first injection, GA EPD Underground Injection Control (UIC) will be notified of the proposed injection in accordance with Procedure EPD-UIC-003. A UIC permit

application will be submitted after initial results are evaluated and injection design is complete.

The post-injection monitoring will consist of sampling of up to 20 wells. These wells may include, but are not limited to, D-MW1, D-MW2, D-MW11, D-MW18, D-MW34, D-MW35, D-MW37, D-MW19, D-MW33, D-MW38, D-MW43, and P1-MW42. CPT wells or newly installed wells may also be sampled. Wells sampled will include sufficient downgradient wells to evaluate contaminant migration. Any changes to the remediation strategy proposed in this document will be submitted to GA EPD.

3.4 Implementation

3.4.1 Milestone Schedule

A project schedule for the proposed corrective action has been prepared. A Gantt chart showing milestone activities and anticipated duration is provided in Figure 3-7. Fort Stewart will notify GA EPD of any significant changes to the schedule and will provide GA EPD with an updated Gantt chart, as necessary. The schedule will be updated after injection strategy and frequency are finalized.

3.4.2 Progress Reporting

Performance Reports will be submitted to GA EPD that will summarize the sampling, injection and/or monitoring activities. The period will be based on optimal monitoring or injection frequency. At a minimum, the Performance Report will consist of a table summarizing the TEA addition activities and biogeochemistry data and a proposal for subsequent activities. In addition, annual reports summarizing all remediation and monitoring activities for the preceding year will be submitted to GA EPD.

Petition for permanent closure (i.e., completion report) will be submitted upon approval of the final progress report when Release #1 reaches GA EPD-approved closure criteria. GA EPD will provide final approval for decommissioning the monitor wells. Decommissioning of the monitor wells will be completed in accordance with the United States Army Corps of Engineers (USACE) design manual for monitor wells. Decommissioning will comply with all applicable state and federal standards. The following certification will be submitted to GA EPD within 30 days of submittal of the final progress report:

I hereby certify that the Corrective Action Plan–Part B, dated , 20 , for Hunter Army Airfield, Former Pumphouse #1 site (Release #1), Facility ID 9-025085*1, including any and all certified amendments/addenda thereto, has been implemented in accordance with the schedules, specifications, sampling programs, and conditions

contained therein and that the plan's stated objectives have been met.

_____

Signature (Owner/Operator)

3.4.3 Inspection Schedule and Preventative Maintenance Program

There will not be a permanent system installed at HAAF; thus, on-site inspection and preventative maintenance will not be required.

3.4.4 Periodic Monitoring

Groundwater samples will be collected annually from up to 26 wells (D-MW1, D-MW2, D-MW8, D-MW11, D-MW12, D-MW13, D-MW17, D-MW18, D-MW19, D-MW22, D-MW33, D-MW34, D-MW35, D-MW36, D-MW37, D-MW38, D-MW39, D-MW40, D-MW41, D-MW42, D-MW43, P1-MW11, P1-MW12, P1-MW13, P1-MW42) and analyzed for BTEX and lead. The wells in the monitoring program may be adjusted based on the results of analytical data. PAH compounds observed during the CAP–Part A and Part B investigations and subsequent sampling were detected at concentrations below their respective ACLs. Therefore, it is recommended that PAH analysis not be performed during the annual sampling. Remedial action will continue at the site until the ACLs are achieved as agreed upon by GA EPD and HAAF. If required by GA EPD, one additional groundwater sampling event will be conducted for analysis of PAHs once ACLs have been achieved. The monitoring only portion of the corrective action will continue until the benzene concentrations in groundwater are below the ACL of 285 µg/L for two sampling events and lead concentrations in soil and groundwater meet appropriate standards as agreed upon by HAAF and GA EPD. Wells may be added or removed from the monitoring plan as the boundaries of the plume change. These changes will be documented in the monitoring only reports.

During each sampling event, water levels will be measured in all monitor wells. Specific conductivity, pH, and temperature analyses will be measured on each sample from the monitor wells from which analytical samples are collected. The samples will be shipped to a GA EPD certified laboratory for BTEX analysis in accordance with USEPA Methods 8021B/8260B and 6010B.

3.4.5 Effectiveness of Corrective Action

The corrective action (i.e., enhanced bioremediation followed by MNA) will be discontinued once the objectives of the monitoring only plan have been achieved. Two of the three goals approved in previous CAP have been achieved and will be

considered complete upon concurrence of GA EPD and HAAF.

The two goals completed are:

- The quantity of free product in monitor wells has reached reduction goals and recovery efforts will be terminated if agreed upon by GA EPD and HAAF. Continued monitoring for free product is warranted, however.
- The benzene, benzo(*a*)pyrene, chrysene, and indeno(1,2,3-*cd*)pyrene concentrations in soil are reduced to below their ATLs of 9.3 , 1.4, 2.1, and 0.66 mg/kg, respectively.

The remaining goal is reduction of the benzene concentrations in groundwater to below the ACL of 285 µg/L. In addition, the lead concentration in groundwater will be reduced below the IWQS (30 µg/L) or other appropriate standard.

3.4.6 Confirmatory Soil Sampling Program

No excavation of soil is planned. Therefore, confirmatory sampling associated with excavation of soil will not be performed. Confirmatory samples of soil contamination that previously exceeded the benzene ATL of 9.3 mg/kg, the benzo(*a*)pyrene ATL of 1.4 mg/kg, the chrysene ATL of 2.1 mg/kg, and the indeno(1,2,3-*cd*)pyrene ATL of 0.66 has been completed and all concentrations were below ATLs.

3.4.7 Stockpiled Bulk Soil Sampling

For the former Fuel Pit 1A/DAACG area (Release #1), no stockpiled soil will be generated by this corrective action. Therefore, no soil sampling will be conducted.

3.4.8 Monitoring Only Termination Conditions

As previously stated in the CAP Addendum 2, the following conditions are required prior to termination of monitoring only program:

- Concentrations of benzene in groundwater must be at or below the ACL.
- Concentrations of benzene, benzo(*a*)pyrene, chrysene, and indeno(1,2,3-*cd*)pyrene in soil must be at or below their respective ATLs prior to termination of the monitoring only program.
- Product removal activities must have reached a quantifiable goal agreed to by GA EPD and HAAF.

Once these conditions are met, the remedial system and monitoring may be terminated regardless of the site ranking score.

An additional goal is reduction of lead concentrations to below IWQS or other appropriate risk based standard.

3.4.9 Post-Completion Site Restoration Activities

As the remediation is currently planned, no modifications will be made to the Release #1 area because no permanent equipment or systems will be located at the site.

4. Public Notification

The former Pumphouse #1 site is located entirely within the confines of HAAF, which is part of the Fort Stewart Military Reservation, a federal facility. The U. S. Government owns all of the property contiguous to the site. The Fort Stewart DPW has complied with the public notice requirements defined by GA EPD guidance by publishing an announcement in the *Savannah Morning News* on April 1 and 8, 2001. When GA EPD and HAAF agree that the free product removal part of the corrective action has been completed, an updated public notice will be made.

5. Claim for Reimbursement

HAAF is a federally owned facility and has funded the investigation for the former Pumphouse #1 site (Release #1), Facility ID #9-025085*1 using U. S. Department of Defense Environmental Restoration Funds. Application for GUST Trust Fund reimbursement is not being pursued at this time.

6. References

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ARCADIS

Tables

Table 2-1
Historical Groundwater Elevations
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter Army Airfield, Georgia

Well ID	Date	TOC Elevation	Screened Interval (ft BGS)	Depth to Product (ft BGS)	Depth to Water (ft BGS)	Thickness	Elevation
January-05							
D-MW02	1/17/2005	36.9	7.6 – 17.6	sheen	10.05	sheen	26.85
D-MW08	1/17/2005	36.58	7.0 – 17.0	—	9.6	0	26.98
D-MW11	1/17/2005	34.1	6.0 – 16.0	sheen	9.76	sheen	24.34
D-MW12	1/17/2005	35.87	5.6 – 15.6	—	9.57	0	26.30
D-MW13	1/17/2005	36.17	5.0 – 15.0	—	9.53	0	26.64
D-MW17	1/17/2005	35.35	6.5 – 16.5	—	9.42	0	25.93
D-MW34	1/17/2005	35.55	7.0 – 17.0	sheen	10.26	sheen	25.29
D-MW35	1/17/2005	36.46	7.0 – 17.0	—	10	0	26.46
D-MW36	1/17/2005	36.24	7.0 – 17.0	—	8.31	0	27.93
D-MW37	1/17/2005	36.83	7.0 – 17.0	—	9.8	0	27.03
D-MW38	1/17/2005	34.89	7.0 – 17.0	—	9.21	0	25.68
D-MW39	1/17/2005	33.73	7.0 – 17.0	—	8.55	0	25.18
D-MW40	1/17/2005	33.43	8.0 – 18.0	—	10.88	0	22.55
D-MW41	1/17/2005	36.12	7.0 – 17.0	—	9.74	0	26.38
D-MW42	1/17/2005	35.87	7.0 – 17.0	—	8.75	0	27.12
D-MW43	1/17/2005	36.42	7.0 – 17.0	—	10.23	0	26.19
*December-06**							
D-MW01	12/16/2006	36.28	7.0 – 17.0	—	12.95	0	23.33
D-MW02	12/16/2006	36.9	7.6 – 17.6	sheen	12.68	sheen	24.22
D-MW03	12/16/2006	36.97	6.0 – 16.0	—	11.49	0	25.48
D-MW04	12/16/2006	37.31	7.0 – 17.0	—	11.49	0	25.82
D-MW08	12/16/2006	36.58	7.0 – 17.0	sheen	11.94	sheen	24.64
D-MW09	12/16/2006	36.21	6.0 – 16.0	—	10.68	0	25.53
D-MW10	12/16/2006	34.59	6.0 – 16.0	—	10.75	0	23.84
D-MW11	12/16/2006	34.1	6.0 – 16.0	sheen	11.3	sheen	22.80
D-MW12	12/16/2006	35.87	5.6 – 15.6	—	11.51	0	24.36
D-MW13	12/16/2006	36.17	5.0 – 15.0	11.13	11.14	0.01	25.03
D-MW14	12/16/2006	35.03	5.0 – 15.0	—	9.58	0	25.45
D-MW15	12/16/2006	35.18	4.7 – 14.7	—	9.27	0	25.91
D-MW16	12/16/2006	35.48	4.9 – 14.9	—	9.48	0	26.00
D-MW17	12/16/2006	35.35	6.5 – 16.5	sheen	11.92	sheen	23.43
D-MW18	12/16/2006	34.82	6.6 – 16.6	—	12.14	0	22.68
D-MW19	12/16/2006	34.94	6.0 – 16.0	—	10.58	0	24.36
D-MW20	12/16/2006	36.25	7.0 – 17.0	—	11.14	0	25.11
D-MW22	12/16/2006	34.88	6.0 – 16.0	—	10.22	0	24.66
D-MW33	12/16/2006	33.48	9.0 – 19.0	—	11.79	0	21.69
D-MW34	12/16/2006	35.55	7.0 – 17.0	sheen	12.23	sheen	23.32
D-MW35	12/16/2006	36.46	7.0 – 17.0	—	12.4	0	24.06
D-MW36	12/16/2006	36.24	7.0 – 17.0	—	11.69	0	24.55
D-MW37	12/16/2006	36.83	7.0 – 17.0	—	12.35	0	24.48
D-MW38	12/16/2006	34.89	7.0 – 17.0	—	11.05	0	23.84
D-MW39	12/16/2006	33.73	7.0 – 17.0	—	10.15	0	23.58

*Source: 2007 Free Product Monitoring and Removal Only Report Former Pumphouse #1, Release #1 (SAIC, 2008)

Table 2-1
Historical Groundwater Elevations
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter Army Airfield, Georgia

Well ID	Date	TOC Elevation	Screened Interval (ft BGS)	Depth to Product (ft BGS)	Depth to Water (ft BGS)	Thickness	Elevation
*December-06 (cont.)**							
D-MW40	12/16/2006	33.43	8.0 – 18.0	—	11.7	0	21.73
D-MW41	12/16/2006	36.12	7.0 – 17.0	—	11.03	0	25.09
D-MW42	12/16/2006	35.87	7.0 – 17.0	—	10.84	0	25.03
D-MW43	12/16/2006	36.42	7.0 – 17.0	—	12.63	0	23.79
P1-MW11	12/16/2006	36.42	7.0 – 17.0	—	11.54	0	24.88
P1-MW12	12/16/2006	35.14	6.5 – 16.5	—	10.8	0	24.34
P1-MW13	12/16/2006	35.85	7.0 – 17.0	sheen	11.86	sheen	23.99
P1-MW14	12/16/2006	34.78	7.0 – 17.0	—	10.71	0	24.07
P1-MW15	12/16/2006	35.24	6.0 – 16.0	—	10.14	0	25.10
P1-MW16	12/16/2006	34.77	6.0 – 16.0	—	9.45	0	25.32
P1-MW42	12/16/2006	34.29	5.6 – 15.6	—	12.26	0	22.03
December-07							
D-MW01	12/5/2007	36.28	7.0 – 17.0	—	11.76	0	24.52
D-MW02	12/5/2007	36.9	7.6 – 17.6	—	11.35	0	25.55
D-MW03	12/5/2007	36.97	6.0 – 16.0	—	10.18	0	26.79
D-MW04	12/5/2007	37.31	7.0 – 17.0	—	10.24	0	27.07
D-MW08	12/5/2007	36.58	7.0 – 17.0	—	10.78	0	25.80
D-MW09	12/5/2007	36.21	6.0 – 16.0	—	9.6	0	26.61
D-MW10	12/5/2007	34.59	6.0 – 16.0	—	9.72	0	24.87
D-MW11	12/5/2007	34.1	6.0 – 16.0	—	10.51	0	23.59
D-MW12	12/5/2007	35.87	5.6 – 15.6	—	10.5	0	25.37
D-MW13	12/5/2007	36.17	5.0 – 15.0	—	10.22	0	25.95
D-MW14	12/5/2007	35.03	5.0 – 15.0	—	8.74	0	26.29
D-MW15	12/5/2007	35.18	4.7 – 14.7	—	8.38	0	26.80
D-MW16	12/5/2007	35.48	4.9 – 14.9	—	8.62	0	26.86
D-MW17	12/5/2007	35.35	6.5 – 16.5	—	10.09	0	25.26
D-MW18	12/5/2007	34.82	6.6 – 16.6	—	11.3	0	23.52
D-MW19	12/5/2007	34.94	6.0 – 16.0	—	9.82	0	25.12
D-MW20	12/5/2007	36.25	7.0 – 17.0	—	10.45	0	25.80
D-MW22	12/5/2007	34.88	6.0 – 16.0	—	9.52	0	25.36
D-MW33	12/5/2007	33.48	9.0 – 19.0	—	11.2	0	22.28
D-MW34	12/5/2007	35.55	7.0 – 17.0	—	11.16	0	24.39
D-MW35	12/5/2007	36.46	7.0 – 17.0	—	11.12	0	25.34
D-MW36	12/5/2007	36.24	7.0 – 17.0	—	10.24	0	26.00
D-MW37	12/5/2007	36.83	7.0 – 17.0	—	11.15	0	25.68
D-MW38	12/5/2007	34.89	7.0 – 17.0	—	10.13	0	24.76
D-MW39	12/5/2007	33.73	7.0 – 17.0	—	9.35	0	24.38
D-MW40	12/5/2007	33.43	8.0 – 18.0	—	11.11	0	22.32
D-MW41	12/5/2007	36.12	7.0 – 17.0	—	10.25	0	25.87
D-MW42	12/5/2007	35.87	7.0 – 17.0	—	9.76	0	26.11
D-MW43	12/5/2007	36.42	7.0 – 17.0	—	11.43	0	24.99
D-MW44	12/5/2007	33.01	7.3 – 17.3	—	11.25	0	21.76
P1-MW11	12/5/2007	36.42	7.0 – 17.0	—	10.03	0	26.39
P1-MW12	12/5/2007	35.14	6.5 – 16.5	—	9.24	0	25.90
P1-MW13	12/5/2007	35.85	7.0 – 17.0	—	10.44	0	25.41
P1-MW14	12/5/2007	34.78	7.0 – 17.0	—	9.07	0	25.71
P1-MW15	12/5/2007	35.24	6.0 – 16.0	—	8.44	0	26.80
P1-MW16	12/5/2007	34.77	6.0 – 16.0	—	7.75	0	27.02
P1-MW42	12/5/2007	34.29	5.6 – 15.6	—	11.54	0	22.75

*Source: 2007 Free Product Monitoring and Removal Only Report Former Pumphouse #1, Release #1 (SAIC, 2008)

Table 2-1
Historical Groundwater Elevations
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter Army Airfield, Georgia

Well ID	Date	TOC Elevation	Screened Interval (ft BGS)	Depth to Product (ft BGS)	Depth to Water (ft BGS)	Thickness	Elevation
December-08							
D-MW01	12/16/2008	36.28	7.0 – 17.0	—	11.39	0	24.89
D-MW02	12/16/2008	36.9	7.6 – 17.6	—	10.97	0	25.93
D-MW03	12/15/2008	36.97	6.0 – 16.0	—	9.67	0	27.30
D-MW04	12/15/2008	37.31	7.0 – 17.0	—	9.78	0	27.53
D-MW08	12/16/2008	36.58	7.0 – 17.0	—	10.42	0	26.16
D-MW09	12/16/2008	36.21	6.0 – 16.0	—	9.35	0	26.86
D-MW10	12/15/2008	34.59	6.0 – 16.0	—	9.51	0	25.08
D-MW11	12/16/2008	34.1	6.0 – 16.0	—	10.22	0	23.88
D-MW12	12/16/2008	35.87	5.6 – 15.6	—	10.17	0	25.70
D-MW13	12/15/2008	36.17	5.0 – 15.0	—	10.02	0	26.15
D-MW14	12/16/2008	35.03	5.0 – 15.0	—	8.59	0	26.44
D-MW15	12/15/2008	35.18	4.7 – 14.7	—	8.15	0	27.03
D-MW16	12/15/2008	35.48	4.9 – 14.9	—	8.39	0	27.09
D-MW17	12/16/2008	35.35	6.5 – 16.5	—	9.8	0	25.55
D-MW18	12/16/2008	34.82	6.6 – 16.6	—	11.98	0	22.84
D-MW19	12/16/2008	34.94	6.0 – 16.0	—	9.57	0	25.37
D-MW20	12/16/2008	36.25	7.0 – 17.0	—	10.02	0	26.23
D-MW22	12/16/2008	34.88	6.0 – 16.0	—	9.26	0	25.62
D-MW33	12/16/2008	33.48	9.0 – 19.0	—	10.9	0	22.58
D-MW34	12/15/2008	35.55	7.0 – 17.0	—	9.81	0	25.74
D-MW35	12/16/2008	36.46	7.0 – 17.0	—	10.77	0	25.69
D-MW36	12/15/2008	36.24	7.0 – 17.0	—	9.75	0	26.49
D-MW37	12/16/2008	36.83	7.0 – 17.0	—	10.77	0	26.06
D-MW38	12/16/2008	34.89	7.0 – 17.0	—	9.8	0	25.09
D-MW39	12/16/2008	33.73	7.0 – 17.0	—	8.86	0	24.87
D-MW40	12/16/2008	33.43	8.0 – 18.0	—	10.94	0	22.49
D-MW41	12/16/2008	36.12	7.0 – 17.0	—	10.01	0	26.11
D-MW42	12/16/2008	35.87	7.0 – 17.0	—	9.44	0	26.43
D-MW43	12/16/2008	36.42	7.0 – 17.0	—	11.01	0	25.41
D-MW44	12/16/2008	33.01	7.3 – 17.3	—	11.01	0	22.00
P1-MW11	12/15/2008	36.42	7.0 – 17.0	—	9.55	0	26.87
P1-MW12	12/16/2008	35.14	6.5 – 16.5	—	8.74	0	26.40
P1-MW13	12/16/2008	35.85	7.0 – 17.0	—	9.75	0	26.10
P1-MW14	12/16/2008	34.78	7.0 – 17.0	—	8.57	0	26.21
P1-MW15	NM	35.24	6.0 – 16.0	—	NM	0	NM
P1-MW16	12/15/2008	34.77	6.0 – 16.0	—	7.03	0	27.74
P1-MW42	12/16/2008	34.29	5.6 – 15.6	—	10.64	0	23.65

Notes:
NM - Not measured

Table 2-2
BTEX Concentrations in Soil DPT Samples- January 2008
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter Army Airfield, Georgia

Location ID	Sample ID	Sample Date	Depth Interval (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (total) (mg/kg)
D-DB-01	AK0119(011508)	1/15/2008	8 - 9.4	0.0011 U	0.0011 U	0.0011 U	0.000566 J
D-DB-02	AK0219(011508)	1/15/2008	1.2 - 3.6	0.00119 U	0.00119 U	0.000938 J	0.000865 J
D-DB-03	AK0319(011508)	1/15/2008	4 - 5.5	0.00121 U	0.000528 J	0.000323 J	0.00145 =
D-DB-04	AK0419(011508)	1/15/2008	8 - 9.6	0.00106 U	0.00106 U	0.00217 =	0.000302 J
D-DB-05	AK0519(011608)	1/16/2008	8 - 9.2	0.205 U	0.973 J	9.69 J	24 J
D-DB-06	AK0619(011608)	1/16/2008	8 - 9.6	0.123 UJ	0.589 J	0.412 J	10.86 J
D-DB-07	AK0719(011608)	1/16/2008	8 - 10	0.00105 U	0.00105 U	0.00105 U	0.000348 J
D-DB-08	AK0819(012308)	1/23/2008	5.5 - 7	0.101 U	0.0659 J	1.36 =	1.81 =
D-DB-09	AK0919(012308)	1/23/2008	8 - 9	0.00107 U	0.00282 J	1.95 =	2.37 =
D-DB-10	AK1019(012408)	1/24/2008	8 - 9	0.00112 UJ	0.00262 J	0.215 J	1.03 J
D-DB-11	AK1119(012408)	1/24/2008	8 - 10.5	**0.259 J**	52 J	16.2 J	74 J
D-DB-12	AK1219(012408)	1/24/2008	8 - 9.8	0.00117 UJ	0.00117 UJ	0.000313 J	0.00136 J
D-DB-13	AK1319(012408)	1/24/2008	1.3 - 3.5	0.00113 UJ	0.00054 JJ	0.000342 J	0.00176 J
D-DB-14	AK1419(012308)	1/23/2008	5.5 - 7	0.00107 U	0.00107 U	0.0268 =	0.0593 =
D-DB-15	AK1519(012308)	1/23/2008	5.7 - 7.5	0.00112 U	0.827 J	0.615 J	0.076 J
D-DB-16	AK1619(012408)	1/24/2008	8 - 9.8	0.00125 UJ	0.00438 J	0.0489 J	0.245 J
D-DB-17	AK1719(012408)	1/24/2008	8 - 9.7	0.00105 UJ	0.0236 J	0.0307 J	0.17 J
D-DB-18	AK1819(012408)	1/24/2008	8 - 9.9	0.00126 UJ	0.0326 J	0.142 J	0.433 J
D-DB-19	AK1919(012508)	1/25/2008	4 - 6.7	0.00125 U	0.000547 J	0.000348 J	0.00176 J
D-DB-20	AK2019(012308)	1/23/2008	1.4 - 3.7	0.00107 U	0.00107 U	0.00107 U	0.000443 J
D-DB-21	AK2119(012308)	1/23/2008	8 - 9.9	0.00114 U	0.513 =	1.91 =	12.2 =
D-DB-22	AK2219(012508)	1/25/2008	8 - 9.7	0.00118 U	0.00118 U	0.00118 U	0.00174 =
D-DB-23	AK2319(012508)	1/25/2008	8 - 9.6	0.00126 U	0.00126 U	0.0641 =	0.141 =
Soil Threshold Levels (Chapter 391-3-15-.09, Table B, Column 1)				0.017	115	18	700
Alternate Threshold Levels (approved)				9.3	479	187	893

Source:2008 Supplemental Site Investigation Data Package Former Pumphouse #1, Release #1 (SAIC, 2008)

Notes:

Bold values are detected concentrations that exceed soil threshold levels

Italics values are detected concentrations that exceed alternate threshold limits

mg/kg - milligram per kilogram

BGS - Below Ground Surface

BTEX - Benzene, toulene, ethylbenzene, and xylenes

NRC - No regulatory Criteria

DPT - Direct Push Tecnology

Laboratory Qualifiers:

U - Indicates the compound was not detected at the concentration reported

J - Indicates the value of the compound is an estimated value

= - Indicates the compound was detected at the concentration reported

Table 2-2
BTEX Concentrations in Soil DPT Samples- January 2008
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter Army Airfield, Georgia

Location ID	Sample ID	Sample Date	Depth Interval (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (total) (mg/kg)
D-DB-24	AK2419(012508)	1/25/2008	8 - 9.5	0.00108 U	0.00105 J	0.0966 =	0.401 =
D-DB-25	AK2519(012508)	1/25/2008	1.4 - 3.8	0.00104 U	0.00104 U	0.00104 U	0.000662 J
D-DB-26	AK2619(012508)	1/25/2008	8 - 10.3	0.000609 J	0.000857 J	0.000781 J	0.00341 =
D-DB-27	AK2719(012608)	1/26/2008	8 - 10.3	0.0013 =	0.0445 =	0.0722 =	0.348 =
D-DB-28	AK2819(012608)	1/26/2008	8 - 10.7	0.00115 U	0.00695 =	0.00961 =	0.0686 =
D-DB-29	AK2919(012608)	1/26/2008	8 - 10	0.00119 U	0.0413 J	0.0256 J	0.194 =
D-DB-30	AK3019(012608)	1/26/2008	8 - 9.4	0.00124 U	0.00759 J	1.69 =	5.57 =
D-DB-31	AK3119(012608)	1/26/2008	8 - 8.8	0.00124 U	0.00124 U	0.00124 U	0.000931 J
D-DB-32	AK3219(012708)	1/27/2008	8 - 10.2	0.000939 U	1.11 =	2.39 =	8.81 =
D-DB-33	AK3319(012708)	1/27/2008	5.4 - 6.8	0.00109 U	0.0386 =	0.0438 =	0.141 =
D-DB-34	AK3419(012708)	1/27/2008	5.5 - 7.1	0.111 U	21.2 =	4.24 =	19.6 =
D-DB-35	AK3519(012708)	1/27/2008	5.5 - 7	0.12 U	1.38 =	2.46 =	5.35 =
D-DB-36	AK3619(012608)	1/26/2008	5.5 - 7.1	0.00107 U	0.00956 J	0.608 =	2.6 =
D-DB-37	AK3719(012608)	1/26/2008	5.7 - 7.4	0.00104 U	0.00104 U	0.00104 U	0.000511 J
D-DB-38	AK3819(011608)	1/16/2008	8 - 9	0.00116 U	0.00208 =	0.0133 =	0.0371 =
D-DB-39	AK3919(011608)	1/16/2008	8 - 9.5	0.496 U	22.5 =	11.9 =	55.6 =
D-DB-40	AK4019(012308)	1/23/2008	8 - 9.1	0.00655 =	0.0236 =	0.567 =	3.22 =
D-DB-41	AK4119(012708)	1/27/2008	4 - 6.2	0.1 U	0.119 =	11 =	67.8 =
D-DB-42	AK4219(012708)	1/27/2008	4 - 6.4	0.00107 U	0.000474 J	0.0159 =	0.127 =
D-DB-43	AK4319(012808)	1/28/2008	5.5 - 7	0.00109 U	0.00109 U	0.00109 U	0.000613 J
D-DB-44	AK4419(012808)	1/28/2008	4 - 6.3	0.0011 U	0.0011 U	0.0011 U	0.000724 J
D-DB-45	AK4519(012808)	1/28/2008	8 - 8.8	0.00107 U	0.000454 J	0.00107 U	0.000854 J
Soil Threshold Levels (Chapter 391-3-15-.09, Table B, Column 1)				0.017	115	18	700
Alternate Threshold Levels (approved)				9.3	479	187	893

Source:2008 Supplemental Site Investigation Data Package Former Pumphouse #1, Release #1 (SAIC, 2008)

Notes:
Bold values exceed soil threshold levels
Italics values exceed alternate threshold limits
mg/kg - milligram per kilogram
BGS - Below Ground Surface
BTEX - Benzene, toulene, ethylbenzene, and xylenes
NRC - No regulatory Criteria
DPT - Direct Push Tecnology

Laboratory Qualifiers:
U - Indicates the compound was not detected at the concentration reported
J - Indicates the value of the compound is an estimated value
= - Indicates the compound was detected at the concentration reported

Table 2-3
PAHs and Lead Concentrations in Soil DPT Samples - January 2008
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter Army Airfield, Georgia

				Detected Concentrations (mg/kg)																	
Location ID	Sample ID	Sample Date	Depth Interval	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(ghi)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Lead
D-DB-01	AK0119(011508)	1/15/2008	8 - 9.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.09 J
D-DB-02	AK0219(011508)	1/15/2008	1.2 - 3.6	--	--	--	--	--	0.013 J	0.0129 J	--	--	--	--	--	--	--	--	--	--	0.987 J
D-DB-03	AK0319(011508)	1/15/2008	4 - 5.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.74 =
D-DB-04	AK0419(011508)	1/15/2008	8 - 9.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.62 =
D-DB-05	AK0519(011608)	1/16/2008	8 - 9.2	0.0134 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	28.5 =
D-DB-06	AK0619(011608)	1/16/2008	8 - 9.6	0.0211 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25.4 =
D-DB-07	AK0719(011608)	1/16/2008	8 - 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.37 =
D-DB-08	AK0819(012308)	1/23/2008	5.5 - 7	0.0634 =	--	--	--	--	--	--	--	--	--	--	0.028 J	0.0116 J	--	--	0.0294 J	0.0129 J	5.4 =
D-DB-09	AK0919(012308)	1/23/2008	8 - 9	0.134 =	--	--	0.01 J	--	--	--	--	--	--	--	0.0152 J	0.0555 =	--	--	0.047 =	--	11 =
D-DB-10	AK1019(012408)	1/24/2008	8 - 9	0.133 =	--	--	--	--	--	--	--	--	--	--	--	0.0374 =	--	--	0.0118 J	--	24.8 =
D-DB-11	AK1119(012408)	1/24/2008	8 - 10.5	0.273 =	--	--	0.0203 J	--	--	0.0152 J	--	--	--	--	0.106 =	0.0432 =	--	0.0376 J	0.101 =	0.062 =	26.7 =
D-DB-12	AK1219(012408)	1/24/2008	8 - 9.8		--	--	--	--	--	--	--	--	--	--	0.0482 =	--	--	--	0.0381 =	0.026 J	5.1 =
D-DB-13	AK1319(012408)	1/24/2008	1.3 - 3.5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.2 =
D-DB-14	AK1419(012308)	1/23/2008	5.5 - 7		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14.8 =
D-DB-15	AK1519(012308)	1/23/2008	5.7 - 7.5		--	--	--	--	--	--	--	--	--	--	0.0188 J	--	--	--	--	--	27 =
D-DB-16	AK1619(012408)	1/24/2008	8 - 9.8		--	--	--	--	--	--	--	--	--	--	--	0.0225 J	--	--	--	--	42.3 =
D-DB-17	AK1719(012408)	1/24/2008	8 - 9.7		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	33.6 =
D-DB-18	AK1819(012408)	1/24/2008	8 - 9.9	0.165 =	0.0175 J	--	0.0237 J	--	--	0.0217 J	--	--	--	--	0.125 =	0.0319 J	--	--	0.136 =	0.0693 =	46.2 =
D-DB-19	AK1919(012508)	1/25/2008	4 - 6.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.5 =
D-DB-20	AK2019(012308)	1/23/2008	1.4 - 3.7	0.245 =	0.0296 J	--	--	--	--	--	--	--	--	--	--	0.0137 J	--	--	--	--	5.9 =
D-DB-21	AK2119(012308)	1/23/2008	8 - 9.9		--	--	--	0.0115 J	--	--	--	--	--	--	0.0247 J	0.0108 J	--	--	0.0274 J	0.015 J	11 =
D-DB-22	AK2219(012508)	1/25/2008	8 - 9.7	0.164 =	--	--	--	--	--	--	--	--	--	--	--	0.0903 =	--	0.142 =	0.0192 J	--	35.2 =
D-DB-22	AK2213(012508)	1/25/2008	8 - 9.7	0.0698 =	--	--	--	--	--	--	--	--	--	--	--	0.0402 =	--	0.0485 =	--	--	31.6 =
D-DB-23	AK2319(012508)	1/25/2008	8 - 9.6	0.0762 =	--	--	--	--	--	--	--	--	--	--	0.0152 J	0.0334 J	--	0.0457 =	0.0188 J	--	18.8 =
D-DB-24	AK2419(012508)	1/25/2008	8 - 9.5	0.0427 =	--	--	0.00718 J	0.0174 J	--	--	--	--	--	--	0.0391 =	--	--	0.0245 J	0.0476 =	0.0282 J	25.8 =
D-DB-25	AK2519(012508)	1/25/2008	1.4 - 3.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.5 =
D-DB-26	AK2619(012508)	1/25/2008	8 - 10.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.5 =
D-DB-27	AK2719(012608)	1/26/2008	8 - 10.3	0.00796 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.3 J
D-DB-28	AK2819(012608)	1/26/2008	8 - 10.7	0.0523 =	--	--	--	--	--	--	--	--	--	--	--	0.0303 J	--	0.0366 =	--	--	7.7 J
D-DB-29	AK2919(012608)	1/26/2008	8 - 10	0.0835 =	--	--	--	0.0134 J	--	--	--	--	--	--	0.0245 J	0.0318 J	--	0.0675 =	0.0275 J	0.0147 J	12.2 J
D-DB-30	AK3019(012608)	1/26/2008	8 - 9.4	0.12 =	0.0289 J	--	0.0374 J	0.0539 =	--	0.0388 =	--	--	0.0282 J	--	0.172 =	0.0342 J	--	0.1 =	0.175 =	0.0951 =	17.1 J
D-DB-31	AK3119(012608)	1/26/2008	8 - 8.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.2 J
D-DB-32	AK3219(012708)	1/27/2008	8 - 10.2	0.00924 J	--	--	--	--	--	--	--	--	0.0162 J	--	0.0483 =	--	--	--	0.0341 J	0.0288 J	14.3 J
D-DB-33	AK3319(012708)	1/27/2008	5.4 - 6.8	0.0261 J	--	--	--	--	--	--	--	--	--	--	0.0286 J	--	--	--	0.0273 J	0.0181 J	26.6 J
D-DB-34	AK3419(012708)	1/27/2008	5.5 - 7.1	0.0596 =	--	--	--	--	--	--	--	--	--	--	0.0188 J	0.0293 J	--	--	0.024 J	--	32.7 J
D-DB-35	AK3519(012708)	1/27/2008	5.5 - 7	0.158 =	--	--	0.0153 J	--	--	--	--	--	0.0122 J	--	0.0354 J	0.115 =	--	--	0.0508 =	0.0217 J	104 J
D-DB-36	AK3619(012608)	1/26/2008	5.5 - 7.1	0.101 =	0.046 =	--	0.0709 =	0.0584 =	--	0.0311 J	--	0.0125 J	0.0309 J	--	0.204 =	0.0525 =	--	0.0717 =	0.332 =	0.123 =	12.4 J
D-DB-37	AK3713(012608)	1/26/2008	5.7 - 7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.4 J
D-DB-37	AK3719(012608)	1/26/2008	5.7 - 7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.6 J
D-DB-38	AK3819(011608)	1/16/2008	8 - 9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.19 =
D-DB-39	AK3919(011608)	1/16/2008	8 - 9.5	0.0192 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0235 J	0.0185 J	10.7 =
D-DB-40	AK4019(012308)	1/23/2008	8 - 9.1	0.198 =	0.0243 J	--	0.0209 J	--	--	--	--	--	--	--	0.109 =	0.0308 J	--	--	0.121 =	0.0815 =	37.3 =
D-DB-41	AK4119(012708)	1/27/2008	4 - 6.2	0.241 =	0.0407 =	--	0.0548 =	0.0529 =	0.0169 J	0.0284 J	--	--	0.0392 =	--	0.21 =	0.0491 =	--	0.117 =	0.237 =	0.143 =	127 J
D-DB-42	AK4219(012708)	1/27/2008	4 - 6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.3 J
D-DB-43	AK4319(012808)	1/28/2008	5.5 - 7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.4 J
D-DB-44	AK4419(012808)	1/28/2008	4 - 6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.2 J
D-DB-45	AK4519(012808)	1/28/2008	8 - 8.8	0.011 J	--	0.201 =	--	0.914 =	0.656 =	0.965 =	0.431 =	--	1.03 =	0.175 =	0.946 =	--	0.351 =	--	--	1.83 =	6.9 J
Soil Threshold Levels (Chapter 391-3-15-.09, Table B, Column 1)				--	NRC	--	NRC	0.66	0.66	0.66	0.66	0.66	0.66	0.66	NRC	NRC	0.66	NRC	NRC	NRC	--
Alternate Threshold Levels (approved)				--	--	--	--	--	1.4	5.8	--	--	2.1	--	--	--	0.66	--	--	--	--

Source:2008 Supplemental Site Investigation Data Package Former Pumphouse #1, Release #1 (SAIC, 2008)

Notes:
Bold values are detected concentrations that exceed soil threshold levels
Italics values are detected concentrations that exceed alternate threshold limits
mg/kg - milligram per kilogram
BGS - Below Ground Surface
PAHs - Poly Aromatic Hydrocarbons
NRC - No regulatory Criteria
DPT - Direct Push Tecnology

Laboratory Qualifiers:
J - Indicates the value of the compound is an estimated value
= - Indicates the compound was detected at the concentration reported

Table 2-4
BTEX Concentrations in Groundwater DPT Samples - January 2008
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter Army Airfield, Georgia

Location ID	Sample ID	Sample Date	Depth Interval	Benzene ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylenes (total) ug/L
D-DB-01	AK0118(011508)	1/15/2008	10 - 14	1 U	1.63 =	0.754 J	3.35 =
D-DB-02	AK0214(011508)	1/15/2008	9 - 13	0.999 J	122 =	150 =	496 =
D-DB-02	AK0218(011508)	1/15/2008	9 - 13	0.959 J	141 =	159 =	535 =
D-DB-03	AK0318(011508)	1/15/2008	11 - 15	1 U	0.276 J	0.257 J	0.904 J
D-DB-04	AK0418(011508)	1/15/2008	9 - 13	**216** =	2360 =	1010 =	3890 =
D-DB-05	AK0518(011608)	1/16/2008	8 - 12	**137** =	3730 =	542 =	1890 =
D-DB-06	AK0618(011608)	1/16/2008	11 - 15	**106** =	**10100** =	1030 =	3900 =
D-DB-07	AK0714(011608)	1/16/2008	10 - 14	1 U	0.553 J	0.357 J	1.65 =
D-DB-07	AK0718(011608)	1/16/2008	10 - 14	1 U	0.622 J	0.367 J	1.56 =
D-DB-08	AK0818(012308)	1/23/2008	11 - 15	**131** =	917 =	827 =	3740 =
D-DB-09	AK0918(012308)	1/23/2008	9 - 13	0.815 J	7.36 =	641 =	2080 =
D-DB-10	AK1018(012408)	1/24/2008	10 - 14	**171** =	5830 =	577 =	3610 =
D-DB-11	AK1118(012408)	1/24/2008	10 - 14	**133** =	6680 =	1070 =	5670 =
D-DB-12	AK1218(012408)	1/24/2008	10 - 14	1 U	4.46 =	83.9 =	192 =
D-DB-12	AK1214(012408)	1/24/2008	10 - 14	1 U	4.12 =	80.1 =	183 =
D-DB-13	AK1318(012408)	1/24/2008	9 - 13	0.538 J	0.476 J	1 U	1 U
D-DB-14	AK1418(012308)	1/23/2008	10 - 14	***738*** =	6130 =	808 =	3680 =
D-DB-15	AK1518(012308)	1/23/2008	10 - 14	**156** =	1140 =	384 =	1800 =
D-DB-16	AK1618(012408)	1/24/2008	10 - 14	35.5 =	333 =	810 =	3570 =
D-DB-17	AK1714(012408)	1/24/2008	10 - 14	6.51 =	2250 =	415 =	1910 =
D-DB-17	AK1718(012408)	1/24/2008	10 - 14	5.97 =	2350 =	440 =	2070 =
D-DB-18	AK1818(012408)	1/24/2008	10 - 14	1.56 =	246 =	1500 =	5190 =
D-DB-19	AK1918(012508)	1/25/2008	8.5 - 12.5	1 U	0.329 J	0.266 J	1 U
D-DB-20	AK2018(012308)	1/23/2008	10 - 14	***448*** =	1370 =	653 =	3280 =
D-DB-21	AK2118(012308)	1/23/2008	10 - 14	***599*** =	5460 =	786 =	3570 =
D-DB-22	AK2218(012508)	1/25/2008	9 - 13	***497*** =	250 =	548 =	2160 =
D-DB-23	AK2318(012508)	1/25/2008	9 - 13	**93.4** =	21.4 =	871 =	2550 =
D-DB-24	AK2418(012508)	1/25/2008	10 - 14	0.399 J	6.55 =	50.3 =	143 =
D-DB-25	AK2518(012508)	1/25/2008	8.5 - 12.5	1 U	1 U	0.252 J	1U
D-DB-26	AK2618(012508)	1/25/2008	10 - 14	***382*** =	3280 =	620 =	2580 =
D-DB-27	AK2714(012608)	1/26/2008	0 - 0	**208** =	5210 =	543 =	2160 =
D-DB-27	AK2718(012608)	1/26/2008	10 - 14	**271** =	6570 =	680 =	2720 =
D-DB-28	AK2818(012608)	1/26/2008	10 - 14	***1,360*** =	555 =	715 =	2650 =
D-DB-29	AK2918(012608)	1/26/2008	10 - 14	***709*** =	292 =	919 =	3490 =
D-DB-30	AK3018(012608)	1/26/2008	9 - 13	10.4 =	2.04 J	70.3 =	330 =
D-DB-31	AK3118(012608)	1/26/2008	9 - 13	1 U	0.27 J	0.579 J	1.74 =
D-DB-32	AK3218(012708)	1/27/2008	10 - 14	37 =	2300 =	472 =	1810 =
D-DB-32	AK3214(012708)	1/27/2008	0 - 0	32.5 =	2240 =	439 =	1620 =
D-DB-33	AK3318(012708)	1/27/2008	10 - 14	**153** =	3700 =	424 =	1790 =
D-DB-34	AK3418(012708)	1/27/2008	10 - 14	***434*** =	4030 =	673 =	1380 =
D-DB-35	AK3518(012708)	1/27/2008	9 - 13	**157** =	276 =	952 =	4490 =
D-DB-36	AK3618(012608)	1/26/2008	9 - 13	9.47 =	8.85 =	447 =	1720 =
D-DB-37	AK3718(012608)	1/26/2008	8.5 - 12.5	1 U	1 U	1 U	0.301 J
D-DB-38	AK3818(011608)	1/16/2008	9 - 13	1.28 =	385 =	338 =	1220 =
D-DB-39	AK3918(011608)	1/16/2008	9 - 13	2.04 =	555 =	120 =	475 =
D-DB-40	AK4018(012308)	1/23/2008	9 - 13	1.97 =	1.62 =	12.9 =	67.3 =
D-DB-41	AK4118(012708)	1/27/2008	8.5 - 12.5	12.4 =	119 =	302 =	1180 =
D-DB-42	AK4218(012708)	1/27/2008	6.5 - 10.5	1 U	59.9 =	480 =	3080 =
D-DB-43	AK4318(012808)	1/28/2008	8.5 - 12.5	1 U	1 U	1 U	0.728 J
D-DB-44	AK4418(012808)	1/28/2008	6.5 - 10.5	1 U	1 U	1 U	0.264 J
D-DB-45	AK4518(012808)	1/28/2008	9 - 13	1 U	1 U	1 U	1 U
Instream Water Quality Standard (IWQS)				51	5,980	2,100	NRC
Alternate Concentration Limit				285	800,000	114,800	--

Source:2008 Supplemental Site Investigation Data Package Former Pumphouse #1, Release #1 (SAIC, 2008)

Notes:
Bold values exceed IWQS
Italics values exceed alternate threshold limits
ug/L - microgram per Liter
BTEX - Benzene, toulene, ethylbenzene, and xylenes
NRC - No regulatory Criteria
DPT - Direct Push Tecnology

Laboratory Qualifiers:
U - Indicates the compound was not detected at the concentration reported
J - Indicates the value of the compound is an estimated value
= - Indicates the compound was detected at the concentration reported

Table 2-5
PAH and Lead Concentrations in Groundwater DPT Samples- January 2008
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter Army Airfield, Georgia

			Detected Constituents (ug/L)								
Location ID	Sample ID	Sample Date	2-Methylnaphthalene	Benz(a)anthracene	Benzo(b)fluoranthene	Chrysene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Lead
D-DB-01	AK0118(011508)	1/15/2008	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	2.4 =
D-DB-02	AK0214(011508)	1/15/2008	1.02 J	1.05 U	1.05 U	1.05 U	1.05 U	3.46 =	1.05 U	1.05 U	**40.7 =**
D-DB-02	AK0218(011508)	1/15/2008	0.882 J	1.02 U	1.02 U	1.02 U	1.02 U	2.76 =	1.02 U	1.02 U	**39.7 =**
D-DB-03	AK0318(011508)	1/15/2008	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	2.2 =
D-DB-04	AK0418(011508)	1/15/2008	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	2.6 =	1.08 U	1.08 U	**165 =**
D-DB-06	AK0618(011608)	1/16/2008	1.48 =	1 U	1 U	1 U	1 U	5.06 =	1 U	1 U	**67.7 =**
D-DB-07	AK0714(011608)	1/16/2008	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.33 J
D-DB-07	AK0718(011608)	1/16/2008	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 J
D-DB-08	AK0818(012308)	1/23/2008	3.88 UJ	3.88 UJ	3.88 UJ	3.88 UJ	3.88 UJ	2.53 J	3.88 UJ	3.88 UJ	**65.6 =**
D-DB-09	AK0918(012308)	1/23/2008	2.86 J	4.04 U	4.04 U	4.04 U	4.04 U	10.1 =	4.04 U	4.04 U	**34 =**
D-DB-10	AK1018(012408)	1/24/2008	0.973 J	1 U	1 U	1 U	1 U	4.69 =	1 U	1 U	16.2 =
D-DB-11	AK1118(012408)	1/24/2008	1.36 =	1.02 U	1.02 U	1.02 U	1.02 U	6.72 =	1.02 U	1.02 U	**36.4 =**
D-DB-12	AK1214(012408)	1/24/2008	3.47 =	1.03 U	1.03 U	1.03 U	1.03 U	6.96 =	0.532 J	1.03 U	12.1 =
D-DB-12	AK1218(012408)	1/24/2008	3.41 =	1.02 U	1.02 U	1.02 U	1.02 U	6.52 =	0.528 J	1.02 U	12.8 =
D-DB-13	AK1318(012408)	1/24/2008	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	0.63 J
D-DB-14	AK1418(012308)	1/23/2008	1.62 J	4.04 U	4.04 U	4.04 U	4.04 U	6.48 =	4.04 U	4.04 U	**32.9 =**
D-DB-15	AK1518(012308)	1/23/2008	3.81 U	3.81 U	3.81 U	3.81 U	3.81 U	5.24 =	3.81 U	3.81 U	10.4 =
D-DB-16	AK1618(012408)	1/24/2008	2.12 =	1.02 U	1.02 U	1.02 U	0.349 J	9.75 =	1.02 U	1.02 U	6.5 =
D-DB-17	AK1714(012408)	1/24/2008	1.01 =	1 U	1 U	1 U	1 U	3.78 =	1 U	1 U	12.6 =
D-DB-17	AK1718(012408)	1/24/2008	1.13 =	1 U	1 U	1 U	1 U	4.03 =	1 U	1 U	14.8 =
D-DB-18	AK1818(012408)	1/24/2008	0.962 U	0.962 U	0.962 U	0.962 U	0.962 U	0.962 U	0.328 J	0.962 U	30 =
D-DB-19	AK1918(012508)	1/25/2008	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.18 U
D-DB-20	AK2018(012308)	1/23/2008	4 U	4 U	4 U	4 U	4 U	3.37 J	4 U	4 U	**204 =**
D-DB-21	AK2118(012308)	1/23/2008	1.22 J	4 U	4 U	4 U	4 U	5.86 =	4 U	4 U	**57.2 =**
D-DB-22	AK2218(012508)	1/25/2008	1.48 J	4 U	4 U	4 U	4 U	7.01 =	4 U	4 U	9.4 =
D-DB-23	AK2318(012508)	1/25/2008	3.11 J	3.98 U	3.98 U	3.98 U	3.98 U	14.2 =	3.98 U	3.98 U	**69.7 =**
D-DB-24	AK2418(012508)	1/25/2008	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	6 =
D-DB-25	AK2518(012508)	1/25/2008	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.37 J
D-DB-32	AK3218(012708)	1/27/2008	0.515 J	1 U	1 U	1 U	1 U	2.3 =	1 U	1 U	7.9 =
D-DB-32	AK3214(012708)	1/27/2008	0.518 J	1 U	1 U	1 U	1 U	2.32 =	1 U	1 U	6.4 =
D-DB-33	AK3318(012708)	1/27/2008	0.483 J	1.03 U	1.03 U	1.03 U	1.03 U	1.81 =	1.03 U	1.03 U	7 =
D-DB-34	AK3418(012708)	1/27/2008	0.692 J	1 U	1 U	1 U	1 U	3.6 =	1 U	1 U	18.8 =
D-DB-35	AK3518(012708)	1/27/2008	0.78 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	27.2 =
D-DB-36	AK3618(012608)	1/26/2008	1.1 =	1 U	1 U	1 U	1 U	3.7 =	1 U	1 U	**36.4 =**
D-DB-37	AK3718(012608)	1/26/2008	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	7.6 =
D-DB-38	AK3818(011608)	1/16/2008	0.591 J	1 U	1 U	1 U	1 U	1.98 =	1 U	1 U	6 =
D-DB-39	AK3918(011608)	1/16/2008	1 U	1 U	1 U	1 U	1 U	0.441 J	1 U	1 U	11.2 =
D-DB-40	AK4018(012308)	1/23/2008	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	16.2 =
D-DB-41	AK4118(012708)	1/27/2008	0.385 J	0.99 U	0.99 U	0.99 U	0.99 U	1.17 =	0.99 U	0.99 U	**112 =**
D-DB-42	AK4218(012708)	1/27/2008	4 U	4 U	4 U	4 U	4 U	7.45 =	4 U	4 U	**67.5 =**
D-DB-43	AK4318(012808)	1/28/2008	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.76 J
D-DB-44	AK4418(012808)	1/28/2008	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.27 J
D-DB-45	AK4518(012808)	1/28/2008	1 U	**0.528 J**	0.294 J	**0.386 J**	1 U	1 U	1 U	.668 J	**39.5 =**
Instream Water Quality Standard (IWQS)			NRC	0.018	NRC	0.018	5,300	NRC	--	4,000	30
Alternate Concentration Limit			--	1.2	3.6	1.2	--	260	--	--	--

Source:2008 Supplemental Site Investigation Data Package Former Pumphouse #1, Release #1 (SAIC, 2008)

Notes:
Bold values indicate detections that exceed IWQS
Italics values indicate detections that exceed alternate threshold limits
ug/L - microgram per liter
BGS - Below Ground Surface
PAH - Poly Aromatic Hydrocarbons
NRC - No regulatory Criteria
DPT - Direct Push Tecnology

Laboratory Qualifiers:
U - Indicates the compound was not detected at the concentration reported
J - Indicates the value of the compound is an estimated value
= - Indicates the compound was detected at the concentration reported

Table 2-6
Field Parameters in Monitor Wells - December 2008
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter Army Airfield, Georgia

Sample ID	Turbidity (NTUs)	pH (SU)	Conductivity (uS/cm)	Temp. (°C)	DO (mg/L)
D-MW1	0.17	4.76	37	25.30	0.32
D-MW2	0.87	4.31	44	25.58	0.28
D-MW8	0.25	3.07	37	26.38	0.11
D-MW11	2.29	4.30	35	25.80	0.27
D-MW12	0	4.47	50	25.68	0.3
D-MW13	0.85	4.30	64	24.43	0.2
D-MW17	4.77	4.29	38	25.10	0.3
D-MW18	2.8	5.40	162	23.60	1.54
D-MW19	1.66	5.30	95	25.25	0.3
D-MW22	1.52	5.34	119	24.38	1.28
D-MW33	0.78	4.89	69	25.74	0.24
D-MW34	0.59	4.40	37	25.39	0.41
D-MW35	4.91	4.84	61	26.21	0.18
D-MW36	2.89	4.94	71	24.22	0.23
D-MW37	2.6	3.25	40	26.03	0.13
D-MW38	1.6	4.79	111	25.09	0.16
D-MW39	2.48	5.99	159	25.28	0.27
D-MW40	3.11	5.24	77	26.01	0.23
D-MW41	1.1	4.54	67	25.15	0.49
D-MW42	1.9	3.71	46	25.60	0.1
D-MW43	4.5	3.48	48	25.95	0.09
P1-MW11	3.14	5.74	160	22.67	0.38
P1-MW12	0	4.47	48	23.60	0.32
P1-MW13	2	4.33	30	26.24	0.25
P1-MW42	4.2	6.28	206	23.22	4.71

Notes:
NTU - Nephelometric Turbidity Units
SU - Standard Unit
mg/L - milligram per Liter
uS/cm - microsiemens per centimeter

Table 2-7a
BTEX and Lead Concentrations in Groundwater in Monitor Wells - December 2008
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter Army Airfield, Georgia

		Chemical Name Unit	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Xylenes (total) ug/l	Lead mg/l
Location ID	Sample ID	Sample Date					
D-MW-01	D-MW1 (121608)	12/16/2008	300	220	2,500	8,800	0.01 U
D-MW-02	D-MW2 (121708)	12/17/2008	260	2,200	230	1,200	0.01 U
D-MW-08	D-MW8 (121708)	12/17/2008	120	20	260	1,400	0.010
D-MW-11	D-MW11 (121708)	12/17/2008	74	280	270	1,600	0.01 U
D-MW-12	D-MW12 (121708)	12/17/2008	15	140	270	1,700	0.01 U
D-MW-13	D-MW13 (121708)	12/17/2008	2.5 U	2.5 U	220	800	0.01 U
D-MW-17	D-MW17 (121708)	12/17/2008	40	1600	210	1,500	0.01 U
D-MW-18	D-MW18 (121708)	12/17/2008	0.5 U	0.5 U	0.5 U	0.5 U	0.01 U
D-MW-19	D-MW19 (121708)	12/17/2008	120	2,900	690	2,400	0.01 U
D-MW-22	D-MW22 (121708)	12/17/2008	0.5 U	0.5 U	0.5 U	0.5 U	0.01 U
D-MW-33	D-MW33 (11708)	12/17/2008	250	1,400	530	2,200	0.014
D-MW-34	D-MW34 (121608)	12/16/2008	490 J	4,900 J	510 J	2,700 J	0.097
D-MW-34	DUP-HAA13RI-1 (121608)	12/16/2008	240 J	2,400 J	220 J	1,300 J	0.13
D-MW-35	D-MW35 (121708)	12/17/2008	140	1,100	110	840	0.11
D-MW-35	DUP-HAA13R1-2 (121708)	12/17/2008	140	1,000	98	740	0.11
D-MW-36	D-MW36 (121608)	12/16/2008	57	1.7	200	350	0.01 U
D-MW-37	D-MW37 (121708)	12/17/2008	64	100	160	720	0.01 U
D-MW-38	D-MW38 (121708)	12/17/2008	3.1	4.3	43	160	0.012
D-MW-39	D-MW39 (121708)	12/17/2008	2.7	1.9	40	180	0.01 U
D-MW-40	D-MW40 (121708)	12/17/2008	16	11	94	420	0.01 U
D-MW-41	D-MW41 (121708)	12/17/2008	0.5 U	0.5 U	0.5 U	0.5 U	0.01 U
D-MW-42	D-MW42 (121708)	12/17/2008	0.5 U	0.5 U	1.4	1.9	0.01 U
D-MW-43	D-MW43 (121808)	12/18/2008	22	57	180	620	0.01 U
P1-MW-11	P1-MW11 (121608)	12/16/2008	29	91	680	1,900	0.011
P1-MW-12	P1-MW12 (121608)	12/16/2008	0.5 U	0.5 U	17	64	0.01 U
P1-MW-13	P1-MW13 (121608)	12/16/2008	4.8	130	160	480	0.01 U
P1-MW-42	P1-MW42 (121708)	12/17/2008	0.5 U	0.5 U	0.5 U	0.5 U	0.01 U
In-Stream Water Quality Standard (IWQS)			51	5,980	2,100	NRC	0.03
Alternate Concentration Limit (ACL)			285	800,000	114,800	--	--

Notes:
Bold values exceed IWQS or ACLs
mg/kg - milligram per kilogram
ug/L - microgram per Liter

Laboratory Qualifiers:
U - Indicates the compound was not detected at the concentration reported
J - Indicates the value of the compound is an estimated value

Table 2-7b
Historical BTEX Concentrations in Monitor Wells
Revised Corrective Action Plan - Part B
Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter army Airfield, Georgia

Sample Location	Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)
Supplemental Corrective Action Plan–Part B Investigation – 2001 (Release #1)						
D-MW01	AK0122	3/10/2001	**99.8 =**	17.3 =	119 =	776 =
D-MW02	AK0222	3/11/2001	***400 =***	**11,200 =**	1,050 =	4,940 =
D-MW03	AK0322	3/11/2001	1 U	1 U	0.21 J	0.74 J
D-MW08	AK0822	3/11/2001	**156 =**	31.4 =	389 =	1,930 =
D-MW09	AK0922	3/9/2001	1 U	1 U	1 U	0.54 J
D-MW11	AK1122	3/10/2001	**179 =**	398 =	187 =	1,490 =
D-MW12	AK1222	3/11/2001	**58.1 =**	123 =	222 =	2,020 =
D-MW13	AK1322	3/9/2001	25.0 U	36.2 U	861 =	3,200 =
D-MW14	AK1422	3/9/2001	1 U	1 U	0.2 J	1.4 J
D-MW17	AK1722	3/11/2001	**159 =**	3,550 =	364 =	3,250 =
D-MW18	AK1822	3/10/2001	0.32 J	1.4 =	0.61 J	4.3 =
D-MW19	AK1922	3/9/2001	**64.2 =**	1,510 =	365 =	1,450 =
D-MW20	AK2022	3/9/2001	1 U	1 U	1 U	3 U
D-MW22	AK2222	3/9/2001	1 U	0.33 J	1 U	3 U
D-MW33	AK3322	3/9/2001	**77.9 =**	774 =	470 =	2,060 =
D-MW34	AK3422	3/11/2001	***388 =***	**8,180 =**	1,060 =	4,740 =
D-MW35	AK3522	3/11/2001	***765 =***	**29,600 =**	1,280 =	6,370 =
D-MW36	AK3622	3/9/2001	**197 =**	2,050 =	586 =	2,120 =
D-MW37	AK3722	3/10/2001	***601 =***	5,340 =	423 =	1,860 =
D-MW38	AK3822	3/9/2001	**123 =**	2,410 =	738 =	3,730 =
D-MW39	AK3922	3/9/2001	29.7 =	98.4 =	340 =	2,010 =
D-MW40	AK4022	3/9/2001	***313 =***	75.3 =	959 =	4,230 =
D-MW41	AK4122	3/9/2001	1 U	1 U	1 U	0.43 J
D-MW42	AK4222	3/9/2001	1 U	112 =	192 =	962 =
D-MW43	AK4322	3/9/2001	10 =	157 =	36.8 =	161 =
P1-MW12	AN1222	3/11/2001	1.7 =	2.1 =	138 =	440 =
P1-MW13	AN1322	3/9/2001	19.5 =	493 =	182 =	788 =
P1-MW14	AN1422	3/10/2001	0.2 J	1.5 =	1.2 =	6 =
P1-MW15	AN1522	3/10/2001	1 U	0.29 J	0.24 J	1.3 J
P1-MW16	AN1622	3/10/2001	1 U	0.27 J	1 U	0.4 U
P1-MW42	AN4222	3/9/2001	1 U	1 U	1 U	0.48 J
In -stream Water Quality Standards (GA EPD Chapter 391-3-6)			51	5,980	2,100	NRC
Alternate Concentration Limits			285	800,000	114,800	--

Source: 2007 Free Product Removal and Monitoring only Report (SAIC 2008)

Notes:

a - Groundwater sample inadvertently not collected in December 2006; therefore, the sample was collected in January 2007.

Bold values exceed In-Stream Water Quality Standard

Italic values exceed Alternate Concentration Limits

BTEX - benzene, toluene, ethylbenzene, and xylenes

ND - Not Detected

NRC - No Regulatory Criteria

J - Indicates that the value for the compound is estimated

U - Indicates that the compound was not detected at the concentration reported

= - Indicates that the compound was detected at the concentration reported

Table 2-7b
Historical BTEX Concentrations in Monitor Wells
Revised Corrective Action Plan - Part B
Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter army Airfield, Georgia

Sample Location	Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)
First Annual Sampling Event – December 2006						
D-MW01	AK0132	12/14/2006	**95.9** =	43.9 =	605 =	1,930 =
D-MW02	AK0232	12/14/2006	***399*** =	2,430 =	659 =	1,940 =
D-MW03	AK0332	12/14/2006	1 U	0.563 J	0.518 J	2.2 =
D-MW08	AK0832	12/14/2006	**113** =	51.2 =	258 =	1,390 =
D-MW09	AK0932	12/13/2006	1 U	1 U	1 U	1 U
D-MW11	AK1132	12/14/2006	**78** =	312 =	352 =	1,750 =
D-MW12	AK1232	12/14/2006	15.2 =	63 =	337 =	1,940 =
D-MW13	AK1332	12/15/2006	1 U	3.27 J	332 =	721 =
D-MW14	AK1432	12/13/2006	1 U	1 U	1 U	1 U
D-MW17	AK1732	12/15/2006	45.6 =	1,280 =	264 =	1,810 =
D-MW18	AK1832	12/15/2006	1 U	1 U	1 U	1 U
D-MW19	AK1932	12/15/2006	**98.6** =	2,270 =	705 =	2,170 =
D-MW20	AK2032	12/15/2006	1 U	0.436 J	1 U	0.458 J
D-MW22	AK2232	12/15/2006	1 U	1 U	1 U	1 U
D-MW33	AK3332	12/14/2006	**115** =	1,130 =	287 =	1,140 =
D-MW34	AK3432	12/14/2006	**254** =	2,220 =	175 =	1,490 =
D-MW35	AK3532	12/14/2006	**143** =	922 =	126 =	1,400 =
D-MW36	AK3632	12/13/2006	**131** =	18 =	234 =	379 =
D-MW37	AK3732	12/13/2006	18.5 =	130 =	14.5 =	79.3 =
D-MW38	AK3832	12/14/2006	18.8 =	116 =	291 =	1300 =
D-MW39	AK3932	12/15/2006	1 U	0.273 J	18.6 =	9.74 =
D-MW40	AK4032	12/15/2006	8.09 =	4.95 =	46.4 =	181 =
D-MW41	AK4132	12/13/2006	1 U	0.266 J	1 U	0.474 J
D-MW42	AK4232	12/13/2006	1 U	0.392 J	2.59 =	10.2 =
D-MW43	AK4332	12/15/2006	28.4 =	119 =	200 =	562 =
D-MW44	AK4432	01/17/07*a*	23.2 =	85 =	225 =	496 =
P1-MW12	AN1232	12/13/2006	1.42 =	0.452 J	234 =	247 =
P1-MW13	AN1332	12/15/2006	6.82 =	50.6 =	252 =	899 =
P1-MW14	AN1432	12/13/2006	1 U	1 U	1 U	1 U
P1-MW15	AN1532	12/13/2006	1 U	1 U	1 U	1 U
In -stream Water Quality Standards (GA EPD Chapter 391-3-6)			51	5,980	2,100	NRC
Alternate Concentration Limits			285	800,000	114,800	--

Source: 2007 Free Product Removal and Monitoring only Report (SAIC 2008)

Notes:

a - Groundwater sample inadvertently not collected in December 2006; therefore, the sample was collected in January 2007.

Bold values exceed In-Stream Water Quality Standard

Italic values exceed Alternate Concentration Limits

BTEX - benzene, toluene, ethylbenzene, and xylenes

ND - Not Detected

NRC - No Regulatory Criteria

J - Indicates that the value for the compound is estimated

U - Indicates that the compound was not detected at the concentration reported

= - Indicates that the compound was detected at the concentration reported

Table 2-7b
Historical BTEX Concentrations in Monitor Wells
Revised Corrective Action Plan - Part B
Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter army Airfield, Georgia

Sample Location	Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)
Second Annual Sampling Event – December 2007						
D-MW01	AK0152	12/6/2007	17.9 =	5.1 =	228 =	512 =
D-MW02	AK0252	12/6/2007	**204 =**	2,550 =	324 =	1,650 =
D-MW03	AK0352	12/5/2007	1 U	1 U	1 U	1 U
D-MW08	AK0852	12/5/2007	**118 =**	26.4 =	312 =	1,610 =
D-MW09	AK0952	12/5/2007	1 U	1 U	1 U	1 U
D-MW11	AK1152	12/6/2007	**90.3 =**	277 =	247 =	1,580 =
D-MW12	AK1252	12/5/2007	8.77 =	69.1 =	174 =	605 =
D-MW13	AK1352	12/5/2007	1 U	2.13 =	334 =	633 =
D-MW14	AK1452	12/5/2007	1 U	1 U	1 U	1 U
D-MW17	AK1752	12/7/2007	51.5 =	2,680 =	297 =	1,420 =
D-MW18	AK1852	12/6/2007	1 U	1 U	1 U	1 U
D-MW19	AK1952	12/6/2007	**96.3 =**	2,280 =	692 =	811 =
D-MW20	AK2052	12/6/2007	1 U	1 U	1 U	0.281 J
D-MW22	AK2252	12/7/2007	1 U	1 U	1 U	1 U
D-MW33	AK3352	12/6/2007	**240 =**	1,180 =	557 =	2,240 =
D-MW34	AK3452	12/6/2007	***935 =***	**8,270 =**	1,000 =	4,680 =
D-MW35	AK3552	12/6/2007	***330 =***	3,180 =	130 =	1,010 =
D-MW36	AK3652	12/6/2007	**116 =**	10.5 =	165 =	369 =
D-MW37	AK3752	12/7/2007	**212 =**	407 =	77.1 =	384 =
D-MW38	AK3852	12/7/2007	3.97 =	3.65 =	80 =	283 =
D-MW39	AK3952	12/7/2007	1.7 =	0.259 J	64.8 =	32.6 =
D-MW40	AK4052	12/7/2007	5.94 =	2.25 =	44.1 =	170 =
D-MW41	AK4152	12/7/2007	1 U	0.492 J	1 U	0.464 J
D-MW42	AK4252	12/7/2007	1 U	1 U	1.63 =	2.07 =
D-MW43	AK4352	12/8/2007	9.99 =	158 =	82.8 =	269 =
D-MW44	AK4452	12/7/2007	13.1 =	78.9 =	54.2 =	206 =
P1-MW12	AN1252	12/7/2007	1.02 =	0.307 J	265 =	211 =
P1-MW13	AN1352	12/8/2007	7.43 =	194 =	195 =	536 =
P1-MW14	AN1452	12/8/2007	1 U	0.263 J	1 U	0.317 J
P1-MW15	AN1552	12/7/2007	1 U	1 U	1 U	1 U
In -stream Water Quality Standards (GA EPD Chapter 391-3-6)			51	5,980	2,100	NRC
Alternate Concentration Limits			285	800,000	114,800	--

Source: 2007 Free Product Removal and Monitoring only Report (SAIC 2008)
Notes:
a - Groundwater sample inadvertently not collected in December 2006; therefore, the sample was collected in January 2007.
Bold values exceed In-Stream Water Quality Standard
Italic values exceed Alternate Concentration Limits
BTEX - benzene, toluene, ethylbenzene, and xylenes
ND - Not Detected
NRC - No Regulatory Criteria
J - Indicates that the value for the compound is estimated
U - Indicates that the compound was not detected at the concentration reported
= - Indicates that the compound was detected at the concentration reported

Table 2-7c
PAHs and Lead Concentrations in Groundwater - December 2007
Revised Corrective Action Plan - Part B
Former Pumphouse #1 (Release #1)
Former building 8060
Hunter Army Airfield, Georgia

Sample Location	Sample ID	Date Sampled	Polynuclear Aromatic Hydrocarbons (µg/L)						Metals (µg/L)
			2-Methylnapthalene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Lead
D-MW01	AK0152	12/6/2007	0.763 J	1.03 U	1.03 U	1.68 =	1.03 U	1.03 U	2.4 =
D-MW02	AK0252	12/6/2007	1.09 =	1.02 U	1.02 U	3.74 =	1.02 U	1.02 U	26.5 =
D-MW03	AK0352	12/5/2007	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	0.88 U
D-MW08	AK0852	12/5/2007	1.26 =	1 U	0.279 J	4.45 =	1 U	1 U	16.4 =
D-MW09	AK0952	12/5/2007	1 U	1 U	1 U	1 U	1 U	1 U	0.82 U
D-MW11	AK1152	12/6/2007	1.26 =	1 U	0.211 J	4.7 =	1 U	1 U	5.2 =
D-MW12	AK1252	12/5/2007	1.51 =	1 U	0.225 J	5.68 =	1 U	1 U	4.3 =
D-MW13	AK1352	12/5/2007	1.69 =	1 U	1 U	4.2 =	0.292 J	1 U	8.6 =
D-MW14	AK1452	12/5/2007	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.11 U
D-MW17	AK1752	12/7/2007	0.757 J	0.971 U	0.971 U	3.17 =	0.971 U	0.971 U	5.8 =
D-MW18	AK1852	12/6/2007	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.21 U
D-MW19	AK1952	12/6/2007	IS	IS	IS	IS	IS	IS	3.6 =
D-MW20	AK2052	12/6/2007	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.17 U
D-MW22	AK2252	12/7/2007	0.962 U	0.962 U	0.962 U	0.962 U	0.962 U	0.962 U	0.11 J
D-MW33	AK3352	12/6/2007	1.75 =	0.99 U	0.99 U	5.28 =	0.99 U	0.99 U	18.9 =
D-MW34	AK3452	12/6/2007	1.95 =	1 U	1 U	6.74 =	0.223 J	1 U	**263 =**
D-MW35	AK3552	12/6/2007	3.86 =	0.285 J	0.436 J	8.7 =	0.346 J	1.02 U	**215 =**
D-MW36	AK3652	12/6/2007	0.347 J	0.971 U	0.22 J	1.73 =	0.971 U	0.971 U	5.7 =
D-MW37	AK3752	12/7/2007	0.98 U	0.98 U	0.98 U	1 =	0.98 U	0.98 U	9.5 =
D-MW38	AK3852	12/7/2007	9.62 U	9.62 U	9.62 U	9.62 U	9.62 U	9.62 U	**46.6 =**
D-MW39	AK3952	12/7/2007	0.484 J	0.98 U	0.98 U	1.01 =	0.98 U	0.98 U	3 =
D-MW40	AK4052	12/7/2007	0.943 U	0.943 U	0.943 U	0.601 J	0.943 U	0.943 U	1.2 J
D-MW41	AK4152	12/7/2007	0.971 U	0.971 U	0.971 U	0.971 U	0.971 U	0.971 U	0.066 J
D-MW42	AK4252	12/7/2007	0.971 U	0.971 U	0.971 U	0.971 U	0.971 U	0.971 U	1.9 J
D-MW43	AK4352	12/8/2007	1 U	3.57 =	1 U	0.825 J	0.417 J	0.447 J	2.1 =
D-MW44	AK4452	12/7/2007	1 U	1 U	1 U	1.09 =	1 U	1 U	3.8 =
P1-MW12	AN1252	12/7/2007	0.63 J	0.971 U	0.971 U	2.84 =	0.971 U	0.971 U	1.3 J
P1-MW13	AN1352	12/8/2007	0.459 J	0.971 U	0.971 U	1.73 =	0.971 U	0.971 U	2.2 =
P1-MW14	AN1452	12/8/2007	1 U	1 U	1 U	1 U	1 U	1 U	0.4 J
P1-MW15	AN1552	12/7/2007	0.971 U	0.971 U	0.971 U	0.971 U	0.971 U	0.971 U	0.49 J
In-Stream Water Quality			NRC	140	5,300	NRC	NRC	4,000	30
Alternate Concentration Limits			--	--	--	260	--	--	--

Source: 2007 Free Product Removal and Monitoring only Report (SAIC 2008)

Notes:

a - Groundwater sample inadvertently not collected in December 2006; therefore, the sample was collected in January 2007.

Bold values exceed In-Stream Water Quality Standard

Italic values exceed Alternate Concentration Limits

BTEX - benzene, toluene, ethylbenzene, and xylenes

ND - Not Detected

NRC - No Regulatory Criteria

J - Indicates that the value for the compound is estimated

U - Indicates that the compound was not detected at the concentration reported

= - Indicates that the compound was detected at the concentration reported

Table 2-8
Free Product Thickness (2004-2006)
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter Army Airfield, Georgia

Well ID	Free Product Thickness (ft) After Absorbent Sock Removal												Free Product Thickness (ft) Prior to Vacuum Extraction			
	Jun. 2004	Jul. 2004	Aug. 2004	Sept. 2004	Oct. 2004	Nov. 2004	Dec. 2004	Jan. 2005	Feb. 2005	Mar. 2005	Apr. 2005	May. 2004	Jun. 2004	Aug. 2005	Oct. 2005	Jan. 2006
D-MW-02	0	0	0	0.01	0	sheen	sheen	0	sheen	sheen	sheen	sheen	0	0	sheen	0
D-MW-08	0	0	0	0.01	0	sheen	sheen	0	0	0	sheen	0	0	0	0	sheen
D-MW-11	0	0	0	0.01	0	0	sheen	0	0	0	0	0	0.01	0	sheen	0.01
D-MW-12	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0
D-MW-13	0	0	0	0	0	sheen	0	0	0	0	0	0.01	0	0	0	sheen
D-MW-17	0	0	0	0	0	sheen	sheen	sheen	sheen	sheen	0	0	0	0	0	sheen
D-MW-34	0.02	0	0	0	0	sheen	sheen	sheen	sheen	0	0	0	0	0	sheen	0
D-MW-35	0	0	0.01	0	0	sheen	sheen	0	sheen	0	0	0	0	0	0	0.01
D-MW-36	0	0	0	0	0	0	0	0	0	0	0.1	0.01	0	0	0	0
D-MW-37	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
D-MW-38	0	0	0	0	0	0	sheen	0	sheen	0	0	0	0	0	0	0
D-MW-39	0	0	0	0	0	sheen	sheen	0	0	0	sheen	0	0	0	0	0
D-MW-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D-MW-41	0	0	0	0	0	0	0	0	0	0	sheen	0	0	0	0	0
D-MW-42	0	0	0	0.01	0	0	0	0	0.01	sheen	0	0	0	0	0	0
D-MW-43	0	0	0	0	0	0	0	0	sheen	0	0	0	0	0	0	0
D-CPT-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D-CPT-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D-CPT-3	0	0	0	0	0	0	0	0	sheen	0	sheen	0	0	0	0	0.01
D-CPT-4	0	0	0.02	0	0	sheen	sheen	0	sheen	0	0	0	0	0	0	sheen
D-CPT-5	0.03	0	0	0	sheen	0	0	0	0	sheen	sheen	0	0	0	0	0
D-CPT-6	0.04	0	0	0	sheen	sheen	sheen	0	0	0	sheen	0	0	0.03	0	0
D-CPT-7	0.07	0	0	0	0	sheen	sheen	0	sheen	0	sheen	0	0	0	0	0
D-CPT-8	0.02	0	0	0	0	sheen	0.06	0	sheen	sheen	sheen	sheen	0	0	0	0
D-CPT-10	0	0	0.01	0	0	sheen	0.01	0	0	0	sheen	sheen	NR	0	0	0.01
D-CPT-11	0	0	0	0	0	0	0	0	0.02	0	sheen	0	0	0	0	sheen
D-CPT-12	0	0	0	0	0	0.01	sheen	0	0	0	sheen	0.01	0	0	0	0
D-CPT-14	0	0	0	0	0	0	sheen	0	0	0	sheen	0	0	0	0	0
D-CPT-17	0.1	0	0	0	sheen	sheen	sheen	0	0	sheen	0	0	0	0.07	0.07	sheen
D-CPT-18	0	0	0.05	0	0	sheen	sheen	0	0	sheen	sheen	sheen	0	0.01	sheen	0
D-CPT-21	0.02	0.02	0	0	0	0	sheen	0	0.01	0	sheen	0.01	0	0	sheen	0.01
D-CPT-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D-CPT-31	0.08	0	0	0	0	sheen	sheen	0	sheen	sheen	0	0	0	sheen	sheen	0
D-CPT-37	0.07	0	0	0	0	sheen	0	0	0	0	sheen	0	0	0	0	0
D-CPT-39	0	0	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0
D-CPT-40	0.02	0.03	0	0	0	sheen	0.02	0	0	sheen	sheen	0	0	sheen	0	0
D-CPT-42	0	0.02	0	0	sheen	sheen	sheen	0	sheen	0	0	0	0	0	0	0

Source:2007 Free Product Monitoring and Removal Only Report Former Pumphouse #1, Release #1 (SAIC, 2008)

Table 2-9
Summary of 2007 Enhanced Fluid Recovery
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter Army Airfield, Georgia

Well ID	Date	Initial Product Level (ft BGS)	Initial Water Level (ft BGS)	Product Thickness (ft)	Final Product Level (ft BGS)	Final Water Level (ft BGS)	Product Removed (~gal)	Total Volume Removed (~gal)
Former Fuel Pit 1A/DAACG Area (Release #1) – April 2007								
D-MW-02	4/19/2007	12.19	12.19	sheen	—	—	—	—
D-MW-08	4/19/2007	11.5	11.5	sheen	—	—	—	—
D-MW-11	4/19/2007	11.99	11.99	sheen	—	—	—	—
D-MW-12	4/19/2007	—	11.13	0	—	—	—	—
D-MW-13	4/19/2007	—	10.8	0	—	—	—	—
D-MW-17	4/19/2007	10.57	10.57	sheen	—	—	—	—
D-MW-33	4/19/2007	—	11.56	0	—	—	—	—
D-MW-34	4/19/2007	11.84	11.84	sheen	—	—	—	—
D-MW-35	4/19/2007	11.94	11.94	sheen	—	—	—	—
D-MW-36	4/19/2007	—	11.1	0	—	—	—	—
D-MW-37	4/19/2007	—	11.9	0	—	—	—	—
D-MW-38	4/19/2007	—	12.7	0	—	—	—	—
D-MW-39	4/19/2007	—	10.93	0	—	—	—	—
D-MW-40	4/19/2007	11.33	11.33	sheen	—	—	—	—
D-MW-41	4/19/2007	—	10.69	0	—	—	—	—
D-MW-42	4/19/2007	—	10.43	0	—	—	—	—
D-MW-43	4/19/2007	12.25	12.25	sheen	—	—	—	—
D-MW-44	4/19/2007	11.41	11.41	sheen	—	—	—	—
D-CPT-01	4/19/2007	—	11.05	0	—	—	—	—
D-CPT-02	4/19/2007	11.95	11.95	sheen	—	—	—	—
D-CPT-03	4/19/2007	—	10.7	0	—	—	—	—
D-CPT-04	4/19/2007	—	12.12	0	—	—	—	—
D-CPT-05	4/19/2007	—	11.01	0	—	—	—	—
D-CPT-06	4/19/2007	10.88	10.88	sheen	—	—	—	—
D-CPT-07	4/19/2007	10.2	10.23	0.03	NM	NM	30	2,228
D-CPT-08	4/19/2007	10.18	10.18	sheen	—	—	—	—
D-CPT-10	4/19/2007	11.74	12.49	0.75	—	12.95	32	1,650
D-CPT-11	4/19/2007	—	10.13	0	—	—	—	—
D-CPT-12	4/19/2007	—	11.25	0	—	—	—	—
D-CPT-14	4/19/2007	—	10.13	0	—	—	—	—
D-CPT-17	4/19/2007	11.26	11.28	0.02	—	12.55	65	1,395
D-CPT-18	4/19/2007	—	10.41	0	—	—	—	—
D-CPT-21	4/19/2007	11.2	11.2	sheen	—	—	—	—
D-CPT-29	4/19/2007	—	11.28	0	—	—	—	—
D-CPT-31	4/19/2007	—	11.28	0	—	—	—	—
D-CPT-37	4/19/2007	—	11.86	0	—	—	—	—
D-CPT-39	4/19/2007	11.11	11.11	sheen	—	—	—	—
D-CPT-40	4/19/2007	—	10.58	0	—	—	—	—
D-CPT-42	4/19/2007	12.09	12.09	sheen	—	—	—	—
D-CPT-43	4/19/2007	—	12.33	0	—	—	—	—
							Total Volume Removed (gal)	5,273

Source:2007 Free Product Monitoring and Removal Only Report Former Pumphouse #1, Release #1 (SAIC, 2008)

Notes:
BGS - below ground surface
*The fourth well for this quarter was P1-MW-02 at Pumphouse #1, Release #2 Site.

Table 2-9
Summary of 2007 Enhanced Fluid Recovery
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter Army Airfield, Georgia

Well ID	Date	Initial Product Level (ft BGS)	Initial Water Level (ft BGS)	Product Thickness (ft)	Final Product Level (ft BGS)	Final Water Level (ft BGS)	Product Removed (~gal)	Total Volume Removed (~gal)
Former Fuel Pit 1A/DAACG Area (Release #1) – July 2007								
D-MW-02	7/12/2007	sheen	11.57	sheen	—	—	—	—
D-MW-08	7/12/2007	sheen	10.92	sheen	—	—	—	—
D-MW-11	7/12/2007	—	10.71	0	—	—	—	—
D-MW-12	7/12/2007	—	10.72	0	—	—	—	—
D-MW-13	7/12/2007	sheen	10.46	0	—	—	—	—
D-MW-17	7/12/2007	sheen	10.33	sheen	—	—	—	—
D-MW-33	7/12/2007	—	11.35	0	—	—	—	—
D-MW-34	7/12/2007	—	11.49	0	—	—	—	—
D-MW-35	7/12/2007	—	11.38	0	—	—	—	—
D-MW-36	7/12/2007	—	10.3	0	—	—	—	—
D-MW-37	7/12/2007	—	11.31	0	—	—	—	—
D-MW-38	7/12/2007	—	10.36	0	—	—	—	—
D-MW-39	7/12/2007	—	9.49	0	—	—	—	—
D-MW-40	7/12/2007	—	11.24	0	—	—	—	—
D-MW-41	7/12/2007	—	10.52	0	—	—	—	—
D-MW-42	7/12/2007	—	9.91	0	—	—	—	—
D-MW-43	7/12/2007	—	11.72	0	—	—	—	—
D-MW-44	7/12/2007	11.3	11.31	0.01	—	—	—	—
D-CPT-01	7/12/2007	—	10.67	0	—	—	—	—
D-CPT-02	7/12/2007	—	11.52	0	—	—	—	—
D-CPT-03	7/12/2007	—	11.38	0	—	—	—	—
D-CPT-04	7/12/2007	—	11.57	0	—	—	—	—
D-CPT-05	7/12/2007	—	10.05	0	—	—	—	—
D-CPT-06	7/12/2007	—	10.16	0	—	—	—	—
D-CPT-07	7/12/2007	—	9.95	0	—	—	—	—
D-CPT-08	7/12/2007	—	9.41	0	—	—	—	—
D-CPT-10	7/12/2007	—	11.35	0	—	—	—	—
D-CPT-11	7/12/2007	—	9.93	0	—	—	—	—
D-CPT-12	7/12/2007	—	10.41	0	—	—	—	—
D-CPT-14	7/12/2007	—	9.22	0	—	—	—	—
D-CPT-17	7/12/2007	11.11	11.14	0.03	—	12.62	11	1,922
D-CPT-18	7/12/2007	—	10.12	0	—	—	—	—
D-CPT-21	7/12/2007	sheen	10.82	sheen	—	—	—	—
D-CPT-23	7/12/2007	sheen	10.93	sheen	—	9.68	30	1,421
D-CPT-29	7/12/2007	sheen	10.8	sheen	—	—	—	—
D-CPT-30	7/12/2007	10.59	10.6	0.01	—	10.93	8	2,000
D-CPT-31	7/12/2007	sheen	9.63	sheen	—	—	—	—
D-CPT-35	7/12/2007	9.86	9.87	0.01	—	10.82	118	329
D-CPT-37	7/12/2007	—	11.15	0	—	—	—	—
D-CPT-39	7/12/2007	—	10.89	0	—	—	—	—
D-CPT-40	7/12/2007	—	9.69	0	—	—	—	—
D-CPT-42	7/12/2007	—	11.71	0	—	—	—	—
D-CPT-43	7/12/2007	—	11.93	0	—	—	—	—
							Total Volume Removed (gal)	4,251

Source:2007 Free Product Monitoring and Removal Only Report Former Pumphouse #1, Release #1 (SAIC, 2008)

Notes:
BGS - below ground surface
*The fourth well for this quarter was P1-MW-02 at Pumphouse #1, Release #2 Site.

Table 2-9
Summary of 2007 Enhanced Fluid Recovery
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter Army Airfield, Georgia

Well ID	Date	Initial Product Level (ft BGS)	Initial Water Level (ft BGS)	Product Thickness (ft)	Final Product Level (ft BGS)	Final Water Level (ft BGS)	Product Removed (~gal)	Total Volume Removed (~gal)
Former Fuel Pit 1A/DAACG Area (Release #1) – October 2007								
D-MW-02	10/9/2007	—	10.35	0	—	—	—	—
D-MW-08	10/9/2007	—	9.91	0	—	—	—	—
D-MW-11	10/9/2007	—	9.85	0	—	—	—	—
D-MW-12	10/9/2007	—	9.82	0	—	—	—	—
D-MW-13	10/9/2007	—	9.68	0	—	—	—	—
D-MW-17	10/9/2007	—	9.6	0	—	—	—	—
D-MW-34	10/9/2007	10.39	10.4	0.01	—	11.94	71	2,753
D-MW-35	10/9/2007	—	10.18	0	—	—	—	—
D-MW-36	10/9/2007	—	8.88	0	—	—	—	—
D-MW-37	10/9/2007	—	10.2	0	—	—	—	—
D-MW-38	10/9/2007	—	9.48	0	—	—	—	—
D-MW-39	10/9/2007	—	8.58	0	—	—	—	—
D-MW-40	10/9/2007	—	10.65	0	—	—	—	—
D-MW-41	10/9/2007	—	9.87	0	—	—	—	—
D-MW-42	10/9/2007	—	8.92	0	—	—	—	—
D-MW-43	10/9/2007	—	10.43	0	—	—	—	—
D-MW-44	10/9/2007	sheen	10.71	sheen	—	—	—	—
D-CPT-01	10/9/2007	—	9.6	0	—	—	—	—
D-CPT-02	10/9/2007	10.5	10.51	0.01	—	—	—	—
D-CPT-03	10/9/2007	—	9.57	0	—	—	—	—
D-CPT-04	10/9/2007	—	10.35	0	—	—	—	—
D-CPT-05	10/9/2007	—	8.85	0	—	—	—	—
D-CPT-06	10/9/2007	—	8.73	0	—	—	—	—
D-CPT-07	10/9/2007	9.2	9.21	0.01	—	—	—	—
D-CPT-08	10/9/2007	—	7.87	0	—	—	—	—
D-CPT-10	10/9/2007	—	9.99	0	—	—	—	—
D-CPT-11	10/9/2007	—	9.25	0	—	—	—	—
D-CPT-12	10/9/2007	—	8.98	0	—	—	—	—
D-CPT-14	10/9/2007	—	7.41	0	—	—	—	—
D-CPT-17	10/9/2007	10.44	10.46	0.02	—	dry	16	1,922
D-CPT-18	10/9/2007	—	10.26	0	—	—	—	—
D-CPT-21	10/9/2007	—	9.96	0	—	—	—	—
D-CPT-23	10/9/2007	10.1	10.11	0.01	—	dry	44	215
D-CPT-29	10/9/2007	—	9.82	0	—	—	—	—
D-CPT-30	10/9/2007	—	9.45	0	—	—	—	—
D-CPT-31	10/9/2007	—	9.5	0	—	—	—	—
D-CPT-35	10/9/2007	—	8.35	0	—	—	—	—
D-CPT-37	10/9/2007	9.9	9.91	0.01	—	—	—	—
D-CPT-39	10/9/2007	—	10.35	0	—	—	—	—
D-CPT-40	10/9/2007	8.06	8.07	0.01	—	—	—	—
D-CPT-42	10/9/2007	—	10.82	0	—	—	—	—
D-CPT-43	10/9/2007	—	10.63	0	—	—	—	—
							Total Volume Removed (gal)	4,890

Source:2007 Free Product Monitoring and Removal Only Report Former Pumphouse #1, Release #1 (SAIC, 2008)

Notes:
BGS - below ground surface
*The fourth well for this quarter was P1-MW-02 at Pumphouse #1, Release #2 Site.

Table 2-10
Well Construction Details
Revised Corective Action Plan - Part B
Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter Army Airfield, Georgia

Boring/ Well Number	Date Installed	Boring Depth (ft BGS)	Screened Interval (ft BGS)	Type of Completion	Coordinates (NAD83)a		Elevation (NGVD88)	
					Northing	Easting	Ground Surface	Top of Casing
Pumphouse #1 Corrective Action Plan–Part A Investigation – 1996								
P1-MW11	11/21/1996	18	7.0 – 17.0	2-in. PVC	734649.15	973338.76	36.6	36.42
P1-MW12	11/21/1996	18	6.5 – 16.5	2-in. PVC	734599.32	973011.39	35.34	35.14
Pumphouse #1 Corrective Action Plan–Part B Investigation – 1997, 1999								
P1-MW13	5/12/1997	18	7.0 – 17.0	2-in. PVC	734726.7	973026.74	36.15	35.85
P1-MW14	5/12/1997	18	7.0 – 17.0	2-in. PVC	734548.76	972881.25	34.95	34.78
P1-MW15	5/12/1997	17	6.0 – 16.0	2-in. PVC	734475.11	973160.31	35.48	35.24
P1-MW16	5/12/1997	17	6.0 – 16.0	2-in. PVC	734497.89	973365.89	34.89	34.77
P1-MW42	9/27/1999	18	5.6 – 15.6	2-in. PVC	735032.45	972772.82	34.56	34.29
DAACG Facility Investigation Wells								
D-MW01	4/23/1996	17.4	7.0 – 17.0	2-in. PVC	734865.68	973058.72	36.39	36.28
D-MW02	4/23/1996	18	7.6 – 17.6	2-in. PVC	734754.28	973216.83	37.05	36.9
D-MW03	4/24/1996	16.5	6.0 – 16.0	2-in. PVC	734659.31	973605.33	37.21	36.97
D-MW04	4/24/1996	16	7.0 – 17.0	2-in. PVC	734618.7	973763.86	37.46	37.31
D-MW08	4/24/1996	17.5	7.0 – 17.0	2-in. PVC	734807.62	973419.79	36.8	36.58
D-MW09	4/24/1996	16.5	6.0 – 16.0	2-in. PVC	734787.14	973661.55	36.38	36.21
D-MW10	4/24/1996	16.5	6.0 – 16.0	2-in. PVC	734736.63	973863.88	36.74	34.59
D-MW11	4/23/1996	17	6.0 – 16.0	2-in. PVC	735030.37	973246.8	34.25	34.1
D-MW12	4/22/1996	16	5.6 – 15.6	2-in. PVC	734914.42	973431.24	36.08	35.87
D-MW13	4/22/1996	15.5	5.0 – 15.0	2-in. PVC	734945.03	973597.82	36.35	36.17
D-MW14	4/22/1996	15.5	5.0 – 15.0	2-in. PVC	734911.72	973742.45	35.18	35.03
D-MW15	4/25/1996	15	4.7 – 14.7	2-in. PVC	734848.8	974000.95	35.37	35.18
D-MW16	4/25/1996	15	4.9 – 14.9	2-in. PVC	734884.97	974084.47	35.7	35.48
D-MW17	4/22/1996	17	6.5 – 16.5	2-in. PVC	735067.03	973516.64	35.55	35.35
D-MW18	4/23/1996	17	6.6 – 16.6	2-in. PVC	735242.75	973282.66	35	34.82
D-MW19	4/22/1996	16.5	6.0 – 16.0	2-in. PVC	735190.02	973480.86	35.24	34.94
D-MW20	4/23/1996	17.5	7.0 – 17.0	2-in. PVC	735106.75	973739.62	36.43	36.25
D-MW22	4/23/1996	16.5	6.0 – 16.0	2-in. PVC	735211.78	973618.31	35.09	34.88
D-MW23	4/23/1996	15.5	5.0 – 15.0	2-in. PVC	735440.83	973753.82	34.07	33.8
D-MW24	4/23/1996	15.3	5.0 – 15.0	2-in. PVC	735555.59	973736.04	34.44	34.24
D-MW25	4/24/1996	15.2	4.8 – 14.8	2-in. PVC	735502.82	973912.83	34.68	34.54
D-MW26	4/24/1996	15	4.7 – 14.7	2-in. PVC	735493.54	974081.96	35.87	35.63
D-MW27	4/24/1996	15	4.5 – 14.5	2-in. PVC	735658.75	973857.54	34.45	34.25

Source:2007 Free Product Monitoring and Removal Only Report Former Pumphouse #1, Release #1 (SAIC, 2008)

Notes:

a - Wells installed during the Pumphouse #1 CAP-Part A and CAP-Part B investigations and were resurveyed in February 2001so reference could be consistent.

BGS - below ground surface

PVC - Polyvinyl chloride

CPT - Cone penetrometer technology

Table 2-10
Well Construction Details
Revised Corective Action Plan - Part B
Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter Army Airfield, Georgia

Boring/ Well Number	Date Installed	Boring Depth (ft BGS)	Screened Interval (ft BGS)	Type of Completion	Coordinates (NAD83)[a]		Elevation (NGVD88)	
					Northing	Easting	Ground Surface	Top of Casing
Supplemental Corrective Action Plan–Part B Investigation – 2001								
D-MW33	2/2/2001	20	9.0 – 19.0	4-in. PVC	735059.31	973158.38	33.89	33.48
D-MW34	2/4/2001	18	7.0 – 17.0	4-in. PVC	734907.85	973152.66	35.88	35.55
D-MW35	2/5/2001	18	7.0 – 17.0	4-in. PVC	734790.43	973182.01	36.89	36.46
D-MW36	2/3/2001	18	7.0 – 17.0	4-in. PVC	734664.2	973252.29	36.61	36.24
D-MW37	2/6/2001	18	7.0 – 17.0	4-in. PVC	734780.91	973344.15	37.07	36.83
D-MW38	2/4/2001	18	7.0 – 17.0	4-in. PVC	734980.63	973350.28	35.14	34.89
D-MW39	2/3/2001	17.5	7.0 – 17.0	4-in. PVC	735095.08	973364.58	34.18	33.73
D-MW40	2/2/2001	19	8.0 – 18.0	4-in. PVC	735123.1	973267.69	33.81	33.43
D-MW41	2/6/2001	18	7.0 – 17.0	4-in. PVC	735041.89	973691.07	36.42	36.12
D-MW42	2/6/2001	18	7.0 – 17.0	4-in. PVC	734846.82	973568.48	36.11	35.87
D-MW43	2/5/2001	18	7.0 – 17.0	4-in. PVC	734791.37	973063.02	36.79	36.42
		Free Product Investigation Well Installation – 2003						
D-CPT01	9/19/2003	34.4	5.2 – 14.8	CPT Well	734932.79	973323.29	35.4	35.3
D-CPT02	9/19/2003	34.4	5.1 – 14.7	CPT Well	734862.27	973254.01	36.3	36.16
D-CPT03	9/20/2003	34	7.3 – 16.9	CPT Well	735000.61	973392.7	35.2	35.03
D-CPT04	9/20/2003	34	5.8 – 15.4	CPT Well	734787.24	973183.84	36.9	36.66
D-CPT05	9/20/2003	34	5.6 – 15.2	CPT Well	734719.31	973112.2	36.5	36.26
D-CPT06	9/21/2003	34	6.0 – 15.8	CPT Well	734685.45	973077.47	35.9	35.65
D-CPT07	9/21/2003	34	5.9 – 15.9	CPT Well	735071.57	973462.77	35.1	34.79
D-CPT08	9/21/2003	34	5.8 – 15.4	CPT Well	734650.35	973041.89	35.2	35.01
D-CPT09	9/22/2003	34	5.8 – 15.6	CPT Well	734780.48	973032.26	36.5	36.64
D-CPT10	9/22/2003	34	5.8 – 15.6	CPT Well	734750.67	973071.37	36.6	36.41
D-CPT11	9/23/2003	34	5.1 – 14.9	CPT Well	735141.45	973537.41	35.2	34.92
D-CPT12	9/23/2003	34	5.1 – 14.9	CPT Well	734647.24	973181.13	36.4	36.31
D-CPT13	9/23/2003	34	5.8 – 15.6	CPT Well	734588.55	972983.79	35.2	34.98
D-CPT14	9/23/2003	34	5.8 – 15.6	CPT Well	734515.12	972911.85	35.4	35.17
D-CPT15	9/23/2003	34	6.2 – 16.0	CPT Well	734584.73	973236.26	35.8	35.66
D-CPT16	9/23/2003	34	5.9 – 15.7	CPT Well	735208.03	973612.02	35.1	34.98
D-CPT17	9/23/2003	34	6.0 – 15.8	CPT Well	735099.58	973272.7	33.6	33.76
D-CPT18	9/23/2003	34	5.7 – 15.5	CPT Well	735063.94	973312.97	34.1	33.98
D-CPT19	9/24/2003	34	5.4 – 15.2	CPT Well	735153.22	973213.76	33.9	33.68
D-CPT20	9/24/2003	34.5	5.8 – 15.6	CPT Well	734905.73	973518.55	36.5	36.26

Source:2007 Free Product Monitoring and Removal Only Report Former Pumphouse #1, Release #1 (SAIC, 2008)

Notes:

a - Wells installed during the Pumphouse #1 CAP-Part A and CAP-Part B investigations and were resurveyed in February 2001so reference could be consistent.

BGS - below ground surface

PVC - Polyvinyl chloride

CPT - Cone penetrometer technology

Table 2-10
Well Construction Details
Revised Corective Action Plan - Part B
Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter Army Airfield, Georgia

Boring/ Well Number	Date Installed	Boring Depth (ft BGS)	Screened Interval (ft BGS)	Type of Completion	Coordinates (NAD83)[a]		Elevation (NGVD88)	
					Northing	Easting	Ground Surface	Top of Casing
D-CPT21	9/24/2003	34	6.0 – 15.8	CPT Well	734939.92	973474.53	36.2	36
D-CPT22	9/24/2003	34	6.0 – 15.8	CPT Well	735031.68	973352.78	34.4	34.62
D-CPT23	10/7/2003	34	5.9 – 15.7	CPT Well	735001.29	973197.18	34.5	34.3
D-CPT24	10/7/2003	34	6.0 – 15.8	CPT Well	735137.92	973388.99	34.5	34.29
D-CPT25	10/7/2003	34	5.9 – 15.7	CPT Well	735035.28	973542.24	36	35.88
D-CPT26	10/7/2003	34	6.0 – 15.8	CPT Well	735089.1	973643.89	36.3	36.09
D-CPT27	10/7/2003	34	5.8 – 15.6	CPT Well	735001.32	973651.98	36.4	36.28
D-CPT28	10/8/2003	34	3.4 – 13.2	CPT Well	734927.7	973662.9	35.8	35.53
D-CPT29	10/8/2003	34	5.7 – 15.5	CPT Well	734865.3	973470.12	36.5	36.28
D-CPT30	10/8/2003	34	6.0 – 15.8	CPT Well	734875.81	973361.46	35.9	35.7
D-CPT31	10/8/2003	34	6.1 – 15.9	CPT Well	734762.58	973470.17	37	36.73
D-CPT32	10/8/2003	34	5.9 – 15.8	CPT Well	734735.07	973364.83	37.3	36.95
D-CPT33	10/8/2003	34	6.1 – 15.9	CPT Well	734818.12	973283.49	36.9	36.6
D-CPT34	10/8/2003	34	5.5 – 15.3	CPT Well	734803.97	973109.48	36.9	36.35
D-CPT35	10/9/2003	34	5.5 – 15.3	CPT Well	734647.37	973286.55	36.4	36.22
D-CPT36	10/9/2003	34	6.0 – 15.8	CPT Well	735005.86	973732.91	35.9	35.7
D-CPT37	10/10/2003	34	6.0 – 15.8	CPT Well	734710.84	973245.67	37.2	36.87
D-CPT38	10/10/2003	34	5.9 – 15.7	CPT Well	734608.58	973332.33	35.8	35.67
D-CPT39	10/10/2003	34	6.0 – 15.8	CPT Well	735155.2	973329.48	34.4	34.12
D-CPT40	10/10/2003	34	6.0 – 15.8	CPT Well	734594.83	973060.17	35.9	35.6
D-CPT41	10/10/2003	34	6.1 – 15.9	CPT Well	734671.57	972947.58	34.9	34.6
D-CPT42	10/10/2003	34	6.8 – 16.6	CPT Well	734884.37	973143.81	36.2	35.92
D-CPT43	10/11/2003	34	5.8 – 15.6	CPT Well	734893.24	973063.67	35.9	35.92
		Additional Well Installation -- May 2006						
D-MW44	5/11/2006	17.5	7.3 – 17.3	2-in PVC	735086.89	973207.74	33.25	33.01

Source:2007 Free Product Monitoring and Removal Only Report Former Pumphouse #1, Release #1 (SAIC, 2008)

Notes:

a - Wells installed during the Pumphouse #1 CAP-Part A and CAP-Part B investigations and were resurveyed in February 2001so reference could be consistent.

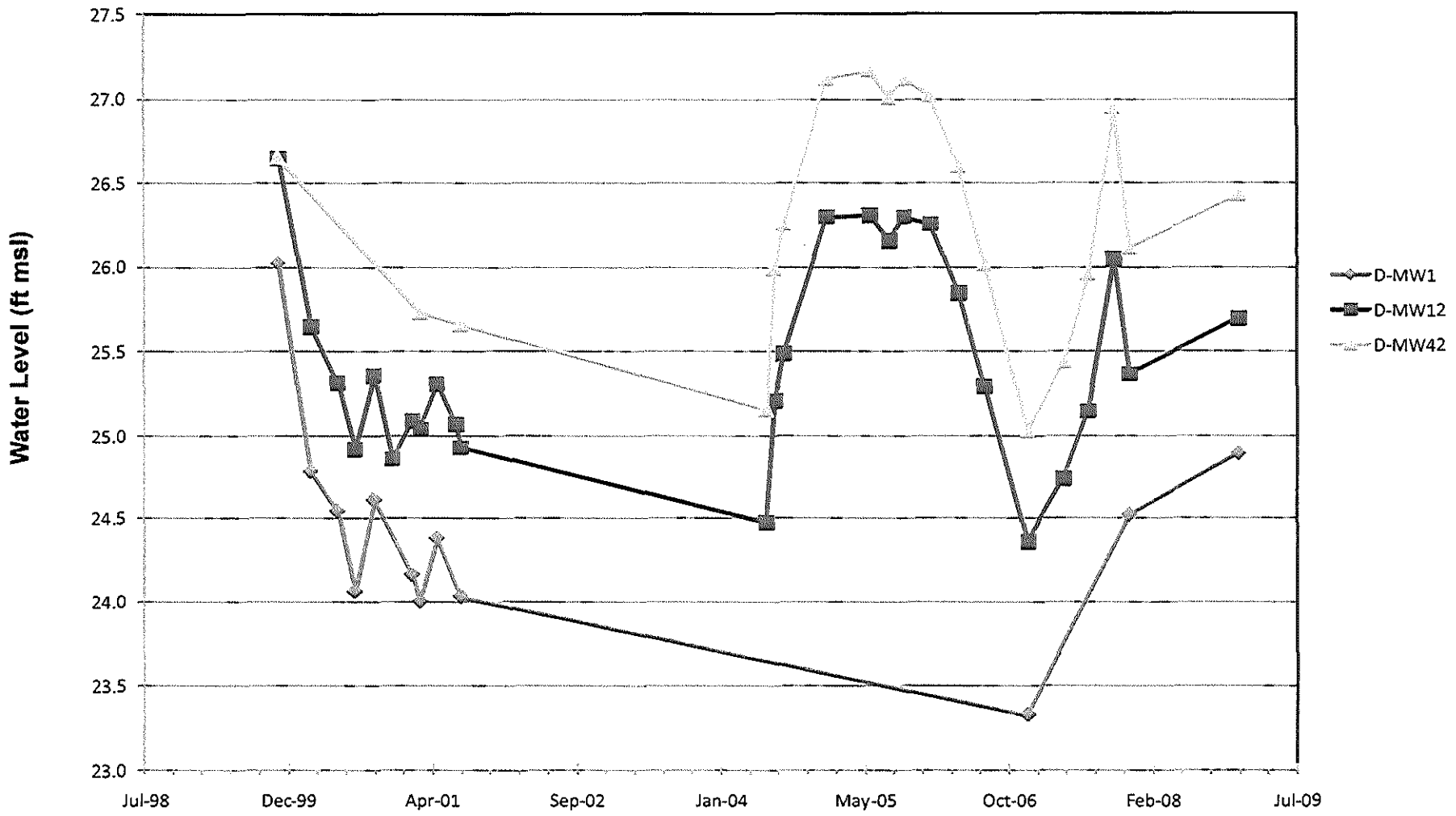
BGS - below ground surface

PVC - Polyvinyl chloride

CPT - Cone penetrometer technology

Figures

CITY:(KNOXVILLE) DIV/GROUP:(ENV) DB:(B.ALTOM) LD:(B.ALTOM) PIC:(M.FENNER) PM:(C.BERTZ) TM:(S.BOSTIAN/E.MADDOX)
PROJECT: GP08HAFS.H13A.EH1R1 PATH: G:\GIS\GP08HAFS\H13A\2009_PH1R1_CAP\F3-3_PH1R1_graph.mxd SAVED: 16MAR2009



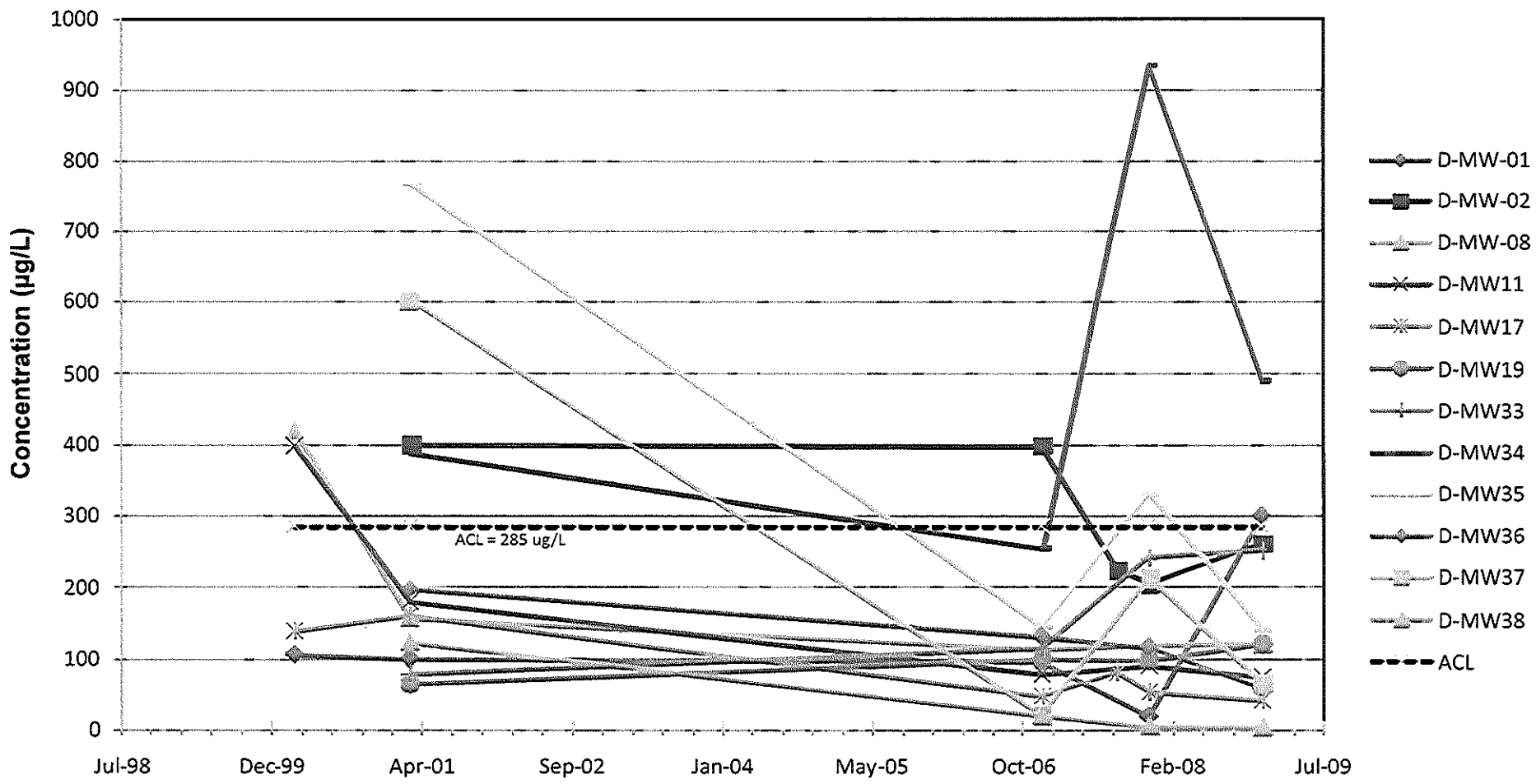
HUNTER ARMY AIRFIELD, GEORGIA
FORMER PUMPHOUSE #1 (RELEASE #1)
FORMER BUILDING 8060, FACILITY ID #9-025085
REVISED CORRECTIVE ACTION PLAN – PART B

Groundwater Elevations Versus Time In Select Monitor Wells

ARCADIS

FIGURE
3-3

CITY:(KNOXVILLE) DIV/GROUP:(ENV) DB:(B.ALTOM) LD:(B.ALTOM) PIC:(M.FENNER) PM:(C.BERTZ) TM:(S.BOSTIAN/E.MADDOX)
PROJECT: GP08HAFS.H13A.EH1R1 PATH: G:\GIS\GP08HAFS\H13A\2009_PH1R1_CAP\F3-4_PH1R1_Benz.mxd SAVED: 16MAR2009



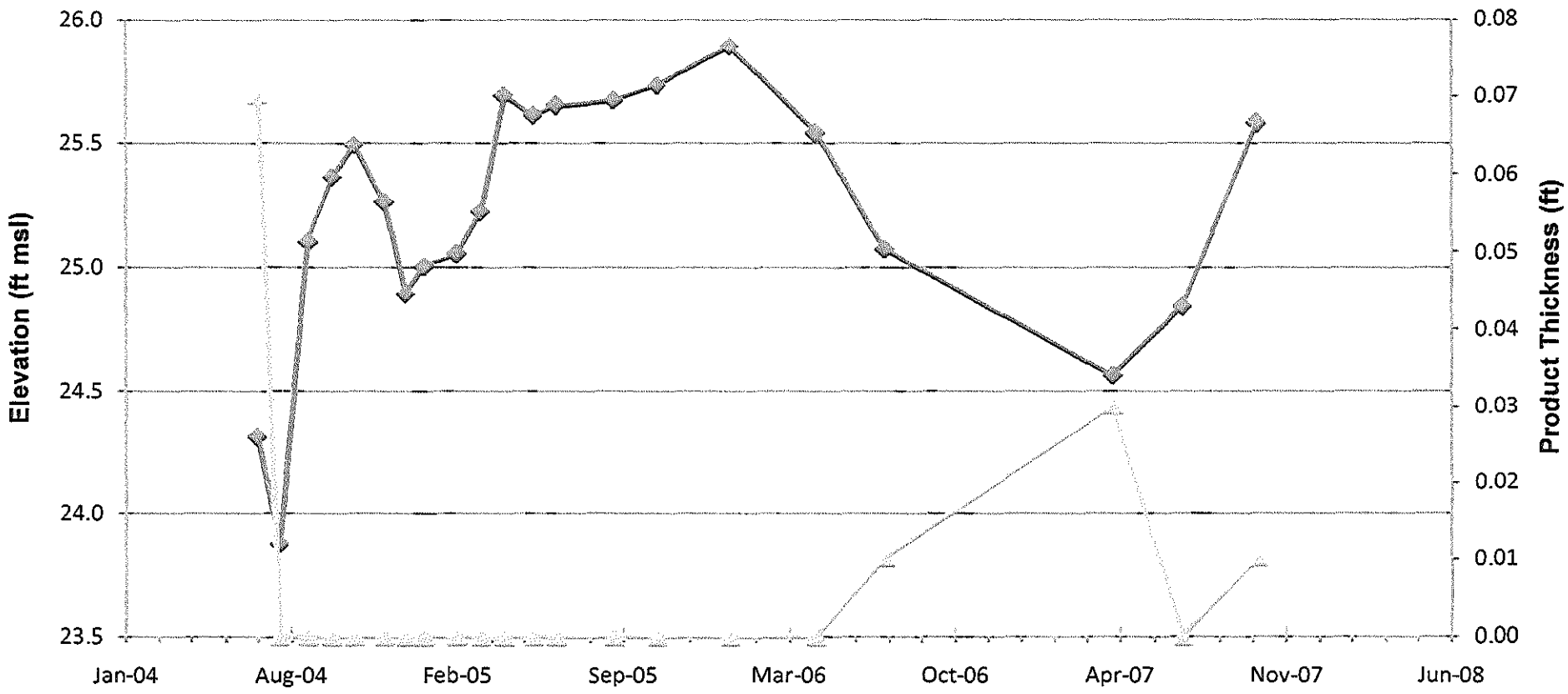
HUNTER ARMY AIRFIELD, GEORGIA
FORMER PUMPHOUSE #1 (RELEASE #1)
FORMER BUILDING 8060, FACILITY ID #9-025085
REVISED CORRECTIVE ACTION PLAN – PART B

Benzene Concentrations Versus Time in Select Monitor Wells

ARCADIS

FIGURE
3-4

CITY:(KNOXVILLE) DIV/GROUP:(ENV) DB:(B.ALTOM) LD:(B.ALTOM) PIC:(M.FENNER) PM:(C.BERTZ) TM:(S.BOSTIAN/E.MADDOX)
PROJECT: GP08HAFS.H13A.EH1R1 PATH: G:\GIS\GP08HAFS\H13A\2009_PH1R1_CAP\F3-5n6_PH1R1_FP.mxd SAVED: 16MAR2009



Groundwater

Product Thickness (ft)

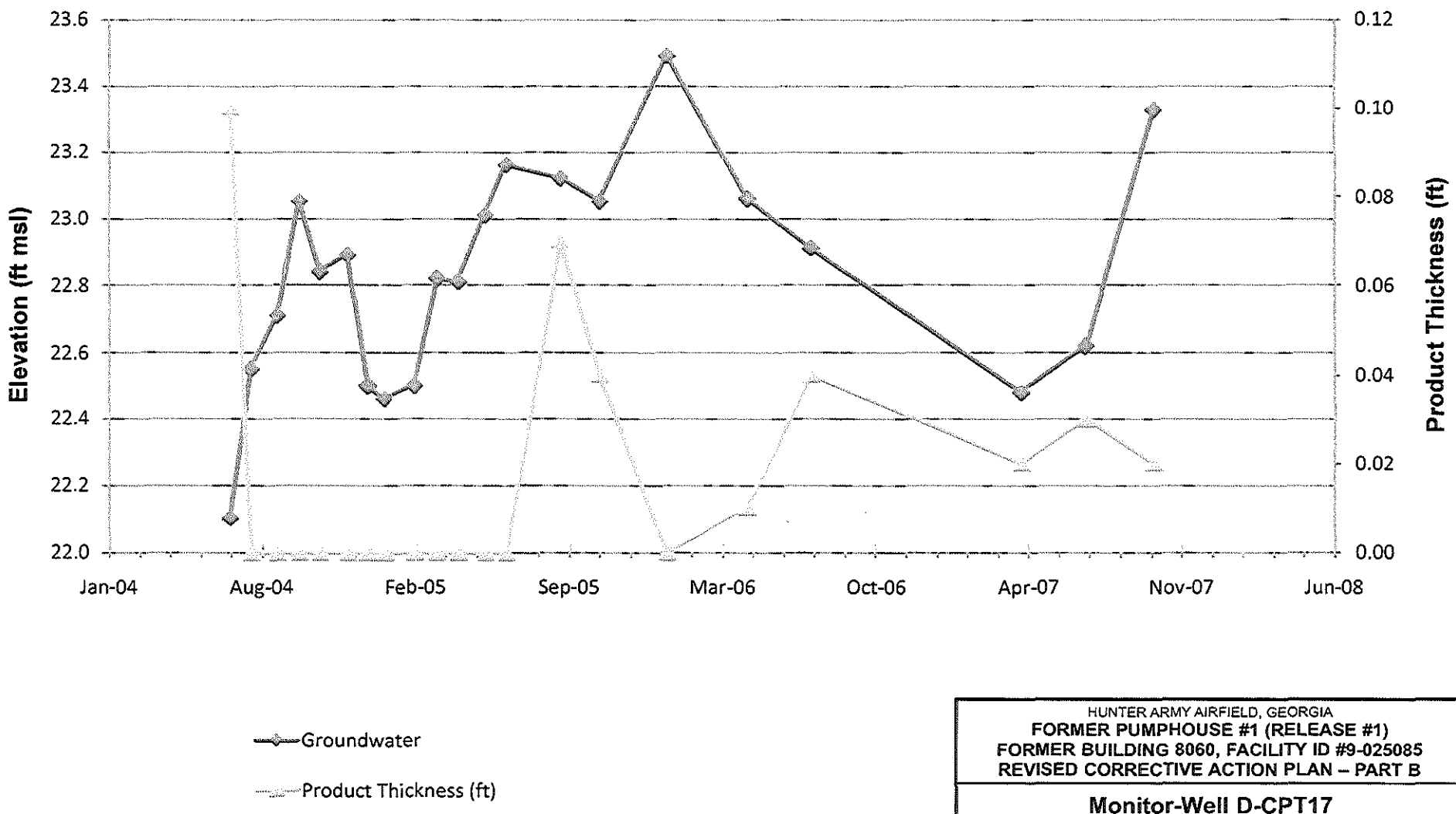
HUNTER ARMY AIRFIELD, GEORGIA
FORMER PUMPHOUSE #1 (RELEASE #1)
FORMER BUILDING 8060, FACILITY ID #9-025085
REVISED CORRECTIVE ACTION PLAN – PART B

Monitor-Well D-CPT07
Free Product Thickness Versus Groundwater Elevation

ARCADIS

FIGURE
3-5

CITY:(KNOXVILLE) DIV/GROUP:(ENV) DB:(B.ALTOM) LD:(B.ALTOM) PIC:(M.FENNER) PM:(C.BERTZ) TM:(S.BOSTIAN/E.MADDOX)
PROJECT: GP08HAFS.H13A.EH1R1 PATH: G:\GIS\GP08HAFS\H13A\2009_PH1R1_CAP\F3-5n6_PH1R1_FP.mxd SAVED: 16MAR2009



HUNTER ARMY AIRFIELD, GEORGIA
FORMER PUMPHOUSE #1 (RELEASE #1)
FORMER BUILDING 8060, FACILITY ID #9-025085
REVISED CORRECTIVE ACTION PLAN – PART B

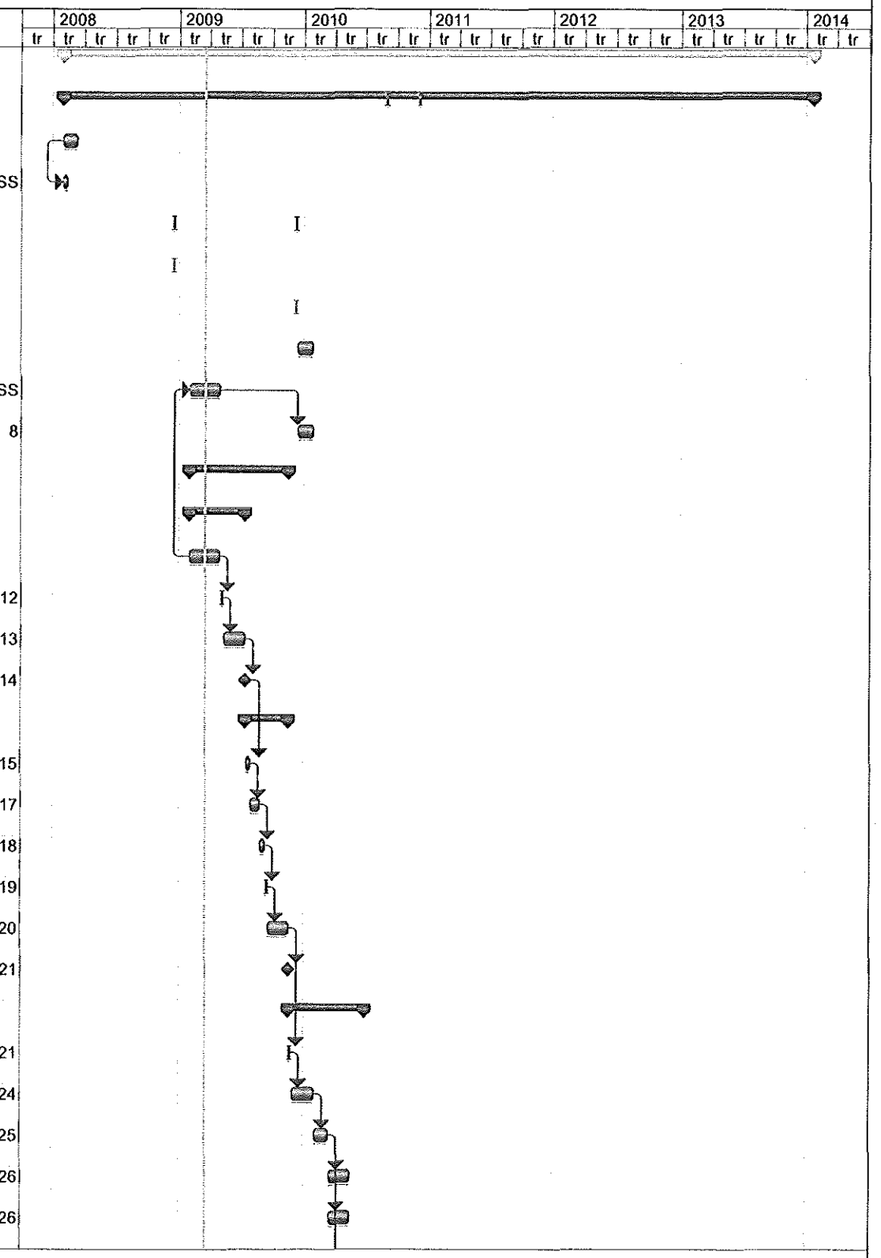
Monitor-Well D-CPT17
Free Product Thickness Versus Groundwater Elevation

ARCADIS

FIGURE
3-6

Figure 3-7: Project Schedule
Hunter Army Airfield HAA-13
Pump House 1 Release 1

ID	WBS	Task Name	Duration	Start	Finish	Predecessors
0	0	**HAA-13 SCHEDULE SUMMARY - PROPOSED**	**1518 days**	**Fri 2/1/08**	**Thu 1/23/14**	
1	1	**HAA 13: PUMP HOUSE #1 / RELEASE #1**	**1518 days**	**Fri 2/1/08**	**Thu 1/23/14**	
2	1.1	Data Evaluation	30 days	Fri 2/1/08	Thu 3/13/08	
3	1.2	Vacuum Event Evaluation	10 days	Fri 2/1/08	Thu 2/14/08	2SS
4	1.3	**Annual Monitoring and Gauging**	**253 days**	**Mon 12/15/08**	**Fri 12/11/09**	
5	1.3.1	Annual Monitoring and Gauging 2008	5 days	Mon 12/15/08	Fri 12/19/08	
6	1.3.2	Annual Monitoring and Gauging 2009	5 days	Mon 12/7/09	Fri 12/11/09	
7	1.4	**Annual Reporting**	**253 days**	**Mon 2/2/09**	**Fri 1/29/10**	
8	1.4.1	Annual Reporting 2008 (included with Revised CAP Part B)	65 days	Mon 2/2/09	Fri 5/1/09	12SS
9	1.4.2	Annual Reporting 2009	33 days	Mon 12/14/09	Fri 1/29/10	8
10	1.5	**HAA 13 Revised CAP Part B**	**205 days**	**Mon 2/2/09**	**Wed 11/18/09**	
11	1.5.1	**HAA 13 Revised CAP Part B Rev 0 (includes Annual Report 2008)**	**115 days**	**Mon 2/2/09**	**Tue 7/14/09**	
12	1.5.1.1	Prepare Draft HAA 13 Revised CAP Part B	65 days	Mon 2/2/09	Fri 5/1/09	
13	1.5.1.2	Army Submittal of Revised CAP Part B Rev 0	5 days	Mon 5/4/09	Fri 5/8/09	12
14	1.5.1.3	GAEPD Review of Revised CAP Part B Rev 0	45 days	Mon 5/11/09	Tue 7/14/09	13
15	1.5.1.4	GAEPD comments on Revised CAP Part B Rev 0	0 days	Tue 7/14/09	Tue 7/14/09	14
16	1.5.2	**HAA 13 Revised CAP Part B Rev 1**	**90 days**	**Wed 7/15/09**	**Wed 11/18/09**	
17	1.5.2.1	Prepare RTCs and HAA 13 Revised CAP Part B Rev 1	10 days	Wed 7/15/09	Tue 7/28/09	15
18	1.5.2.2	Army Review of RTCs and Revised CAP Part B Rev 1	20 days	Wed 7/29/09	Tue 8/25/09	17
19	1.5.2.3	ARCADIS Revisions	10 days	Wed 8/26/09	Wed 9/9/09	18
20	1.5.2.4	Army Submittal of RTCs and Revised CAP Part B Rev 1	5 days	Thu 9/10/09	Wed 9/16/09	19
21	1.5.2.5	GAEPD Review of Revised CAP Part B Rev 1	45 days	Thu 9/17/09	Wed 11/18/09	20
22	1.5.3	Regulatory Approval Final HAA 13 Revised CAP Part B Rev 1	0 days	Wed 11/18/09	Wed 11/18/09	21
23	1.6	**HAA 13 Baseline Sampling and Injection Well Installations**	**155 days**	**Thu 11/19/09**	**Wed 6/30/10**	
24	1.6.1	Baseline Biogeochemical Sampling	5 days	Thu 11/19/09	Wed 11/25/09	21
25	1.6.2	Sampling Report with Injection Strategy Proposal	45 days	Mon 11/30/09	Tue 2/2/10	24
26	1.6.3	GAEPD Concurrence with Proposal	30 days	Wed 2/3/10	Tue 3/16/10	25
27	1.6.4	UIC Application	45 days	Wed 3/17/10	Tue 5/18/10	26
28	1.6.5	Injection Well Installation if necessary	45 days	Wed 3/17/10	Tue 5/18/10	26



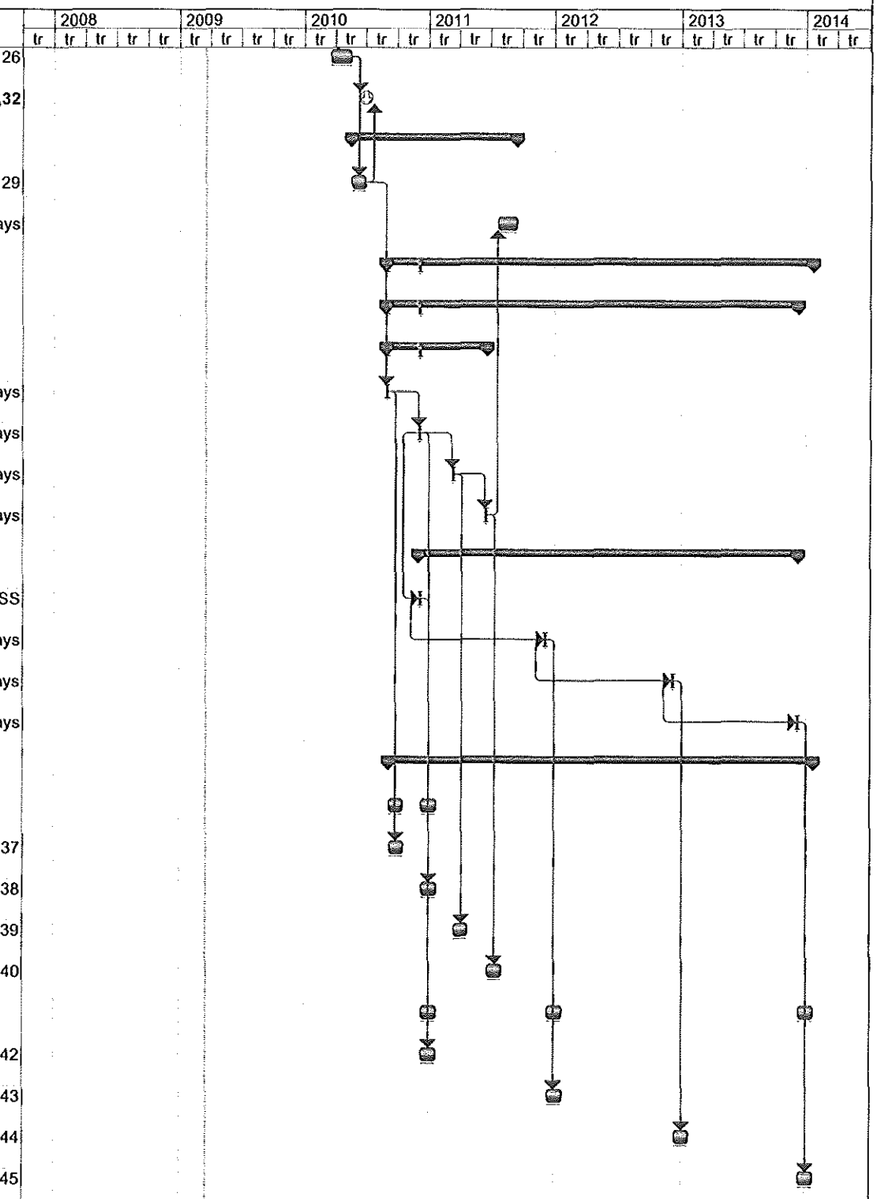
ARCADIS

Date: Tue 3/17/09

Task Duration Milestone Summary

Figure 3-7: Project Schedule
Hunter Army Airfield HAA-13
Pump House 1 Release 1

ID	WBS	Task Name	Duration	Start	Finish	Predecessors
29	1.6.6	Materials and Mixing System Installation	45 days	Wed 3/17/10	Tue 5/18/10	26
30	**1.6.7**	**Remedy In Place**	**0 days**	**Wed 6/30/10**	**Wed 6/30/10**	**29,32**
31	**1.7**	**HAA 13 LTO /Bioenhancement Injections**	**338 days**	**Wed 5/19/10**	**Fri 9/16/11**	
32	1.7.1	HAA 13 LTO / Phase 1 Injections	30 days	Wed 5/19/10	Wed 6/30/10	29
33	1.7.2	HAA 13 LTO / Phase 2 Injections if necessary	40 days	Fri 7/22/11	Fri 9/16/11	40FS+30 edays
34	**1.8**	**HAA 13 LTO - Monitoring and Reporting**	**863 days**	**Mon 8/30/10**	**Thu 1/23/14**	
35	**1.8.1**	**HAA 13 Performance and LTM/MNA Monitoring**	**833 days**	**Mon 8/30/10**	**Tue 12/10/13**	
36	**1.8.1.1**	**HAA 13 Quarterly Performance Monitoring**	**206 days**	**Mon 8/30/10**	**Tue 6/21/11**	
37	1.8.1.1.1	HAA 13 Performance Monitoring Event 1	5 days	Mon 8/30/10	Fri 9/3/10	32FS+60 edays
38	1.8.1.1.2	HAA 13 Performance Monitoring Event 2	5 days	Fri 12/3/10	Thu 12/9/10	37FS+90 edays
39	1.8.1.1.3	HAA 13 Performance Monitoring Event 3	5 days	Thu 3/10/11	Wed 3/16/11	38FS+90 edays
40	1.8.1.1.4	HAA 13 Performance Monitoring Event 4	5 days	Wed 6/15/11	Tue 6/21/11	39FS+90 edays
41	**1.8.1.2**	**HAA 13 LTM / MNA Monitoring**	**767 days**	**Fri 12/3/10**	**Tue 12/10/13**	
42	1.8.1.2.1	HAA 13 - Year 2010	5 days	Fri 12/3/10	Thu 12/9/10	38SS
43	1.8.1.2.2	HAA 13 - Year 2011	5 days	Mon 12/5/11	Fri 12/9/11	42SS+365 edays
44	1.8.1.2.3	HAA 13 - Year 2012	5 days	Tue 12/4/12	Mon 12/10/12	43SS+365 edays
45	1.8.1.2.4	HAA 13 - Year 2013	5 days	Wed 12/4/13	Tue 12/10/13	44SS+365 edays
46	**1.8.2**	**HAA-13 Reporting**	**858 days**	**Tue 9/7/10**	**Thu 1/23/14**	
47	**1.8.2.1**	**HAA 13 Performance Reporting**	**231 days**	**Tue 9/7/10**	**Wed 8/3/11**	
48	1.8.2.1.1	HAA 13 Performance Monitoring Report 1	30 days	Tue 9/7/10	Mon 10/18/10	37
49	1.8.2.1.2	HAA 13 Performance Monitoring Report 2	30 days	Fri 12/10/10	Mon 1/24/11	38
50	1.8.2.1.3	HAA 13 Performance Monitoring Report 3	30 days	Thu 3/17/11	Wed 4/27/11	39
51	1.8.2.1.4	HAA 13 Performance Monitoring Report 4	30 days	Wed 6/22/11	Wed 8/3/11	40
52	**1.8.2.2**	**HAA 13 Annual LTM / MNA Report**	**792 days**	**Fri 12/10/10**	**Thu 1/23/14**	
53	1.8.2.2.1	HAA 13 Annual Monitoring Report 1	30 days	Fri 12/10/10	Mon 1/24/11	42
54	1.8.2.2.2	HAA 13 Annual Monitoring Report 2	30 days	Mon 12/12/11	Tue 1/24/12	43
55	1.8.2.2.3	HAA 13 Annual Monitoring Report 3	30 days	Tue 12/11/12	Wed 1/23/13	44
56	1.8.2.2.4	HAA 13 Annual Monitoring Report 4	30 days	Wed 12/11/13	Thu 1/23/14	45



ARCADIS

Date: Tue 3/17/09

Task Duration Milestone Summary

ARCADIS

Appendix A

January 2008 Supplemental
Investigation Soil Boring Logs

HTRW DRILLING LOG

HOLE NUMBER D-DB3-01 4

PROJECT: Fort Stewart/Hunter | INSPECTOR Timothy Coffey | SHEET 2 OF 3

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Concrete	N/A	N/A	N/A	
	1	Gray gravel base: undifferentiated.	0.0 ppm		N/A	Run#1 0.7 - 4.0 ft D: 3.3 ft R: 2.5 ft
		DK yell-brn sand: dry, F- to C-grnd, mass/uniform.				
	2	DK gray-brown silty sand: dry, F-grnd, mottled..				
	3					
		No Recovery	N/A		N/A	
	4	Yellow-brown silty sand: dry to moist, F-grnd.	4.5 ppm	N/A	1155 N/A	Run#2 4-8 ft D: 4 ft R: 2.8 ft
	5					
	6	DK brown silty sand: moist, mottled, F-grnd.				
		Yell-brn silty sand: stringers of lt. green clay				
	7	No Recovery.	N/A		N/A	
	8					
	9	DK gray-brown to white sand and silty sand: dry to wet, mottled, F-grnd, streaked, bad.	4.6 ppm		1203 AK0119	Run#3 8-12 ft D: 4 ft R: 2.6 ft
			N/A		N/A	water at 9.4 ft BGS
	10					

HTRW DRILLING LOG

HOLE NUMBER D-DB-01

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		DK gray-brown to white silty sand and sand.				
	11	No Recovery	N/A	AK01/18	N/A	
	12					
	13	No soil Sampling ↓	N/A		N/A	
	14					
		End of Boring				TD = 14 ft.
	15					
	16					
	17					
	18					
	19					
	20					

HTRW DRILLING LOG	DISTRICT: USACE Savannah	HOLE NUMBER D-DB-02
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3

3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG
5. NAME OF DRILLER: Bobby Lewis	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig; 2-in. diam. Macrocore barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:
	9. SURFACE ELEVATION:
	10. DATE STARTED: 1/15/08 11. DATE COMPLETED: 1/15/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 8.5 ft. BGS
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A
14. TOTAL DEPTH OF HOLE: 13.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: N/A
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH; OTHER (SPECIFY): —; OTHER (SPECIFY): —
21. TOTAL CORE RECOVERY %			
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —
23. SIGNATURE OF INSPECTOR			

LOCATION SKETCH/COMMENTS

SCALE:

See page 3, this logbook, for location sketch.

HTRW DRILLING LOG

HOLE NUMBER D-DB-02

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 2 OF 3

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1	Concrete	N/A	N/A	N/A	
	2	Dk gray-brown silty sand: dry, mottled (esp. bott), F-grnd.	12.8 ppm		1342 AK02-19	Run #1 1.2-4 ft D: 2.8 ft R: 2.5 ft
	3	Lt. gray sand: dry, F-grnd, mottled (top), mass/unif. (bottom).				sl. prod. odor.
	4	No Recovery	N/A		N/A	
		As Above.				
	5	Brn-gray sand: F-grnd, rel. loose.	414 ppm	N/A	1306 N/A	Run #2 4-8 ft D: 4 ft R: 3.4 ft
	6	Black sandy silt: dry, v. F-grnd, well packed, massive; grades to:			1308	
	7	Dk red-brown sandy silt: dry, massive/uniform, rel. loose, v. F-grnd.	403 ppm		N/A	product odor
	8	No Recovery	N/A		N/A	water at 8.5 ft BGS.
	9	Red-brown sandy silt (As Above)	27.8 ppm		N/A	Run #3 8-12 ft D: 4 ft R: 3.2 ft
	10	Gray and Blue-green sandy clay. Lt. blue-gray clay: moist, plastic.	N/A	AK02-14	N/A	

HTRW DRILLING LOG

PROJECT: Fort Stewart/Hunter	INSPECTOR Timothy Coffey	HOLE NUMBER DB-02
		SHEET 3 OF 3

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Lt. Blue-green clay (As Above)				
	11	Gray-green clay sand.	N/A	FROZEN	N/A	
		No Recovery				
	12	No soil Sampling	N/A		N/A	
	13	End of Boring				TD = 13 ft
	14					
	15					
	16					
	17					
	18					
	19					
	20					

17

HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-03
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG	
5. NAME OF DRILLER: Bobby Lewis	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig; 2-in. diam. Macro-core barrel; with Acetate liners.; 1-in. diam. screened water sampler.	8. HOLE LOCATION:	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 1/15/08	11. DATE COMPLETED: 1/15/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 10.7 ft BGS	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 15.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	~~DISTURBED~~ N/A	~~UNDISTURBED~~ N/A	19. TOTAL NUMBER OF CORE BOXES N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS — SCALE:

See page 3, this logbook, for location sketch.

well atmosphere, soil core, breathing zone, venting compressed air, etc.)

(Signature and Data)

HTRW DRILLING LOG

HOLE NUMBER D-DB-03 18

PROJECT: Fort Stewart/Hunter | INSPECTOR Timothy Coffey | SHEET 2 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
1	Concrete	N/A	N/A	N/A	
2	Dk gray-black sand; gradus to Pale yell-brn sand; Dry, F-grnd, mass. to mottled, rel. loose.	1.8 ppm		N/A	Run #1 1.2-4 ft D: 2.8 ft R: 2.3 ft
3	Dk red-brn sandy silt; rel. packed.				
4	No Recovery	N/A		N/A	
5	Dk red-brown sandy silt (As Above)	89.9 ppm		1417 AK@319	Run #2 4-8 ft D: 4 ft R: 3.1 ft
6		45.9 ppm	N/A	1419 N/A	
7	Red-yellow silty sand; dry, F-grnd, rel. loose, massive				
8	No Recovery	N/A		N/A	
9	Red-yellow silty Sand (As Above)	62.2 ppm		1424 N/A	Run #3 8-12 ft D: 4 ft R: 3.4 ft
10	Yellow-brn sand; dry to moist, mottled, F-grnd.				

HTRW DRILLING LOG

HOLE NUMBER D-DB-03 19

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Caffey

SHEET 3 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	DK gray-brn silty sand: dry, "dirty"	62.2 ppm	N/A	1424 N/A	Water at 10.7 ft BGS.
	Lt. gray-grn sandy clay: dry, crumbly				
11	Lt. brown sand: wet, F grnd, massive, rel. packed.	N/A		N/A	11
	No Recovery				
12					12
	No soil Sampling		AK0316		
13		N/A		N/A	13
14					14
15					15
	End of Boring				TD = 15 ft.
16					16
17					17
18					18
19					19
20					20

24

HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-01
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG	
5. NAME OF DRILLER: Bobby Lewis	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400	
7. TYPES AND TYPES OF DRILLING & SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted. DPT ring, [illegible] diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 1/15/08	11. DATE COMPLETED: 1/15/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 9.6 ft BGS	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 13.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED: N/A	UNDISTURBED: N/A	19. TOTAL NUMBER OF CORE BOXES: N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS — SCALE:

See page 3, this logbook, for location sketch.

QA CHECK BY: _____ (Signature and Date)

NOTE: [illegible] well atmosphere, soil core, breathing zone, venting compressed air, etc.)

HTRW DRILLING LOG

PROJECT: Fort Stewart/Hunter	INSPECTOR: Timothy Coffey	HOLE NUMBER D-DB-04	SHEET 2 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
1	Concrete	N/A	N/A	N/A	
2	DK gray-brown silty sand; dry, rel. massive, F- to m-grnd.	216 ppm		N/A	Run #1 1.3-4 ft D: 2.7 ft R: 2.4 ft
3	Gray-green clay sand; dry to moist, non-plastic.				
	DK brown silty sand; dry, massive, F-grnd.				
4	No Recovery	N/A		N/A	
	As Above.			1519	Run #2 4-8 ft D: 4 ft R: 3.4 ft
5	DK red-brown sandy silt; dry, vi F-grnd, massive/uniform, rel. packed.	316 ppm	N/A	N/A	
6	grades to: Red-yellow silty sand; Dry, massive, F-grnd, rel. loose.	114 ppm		1522 N/A	
7					
8	No Recovery	N/A		N/A	
9	Red-yellow silty sand (As Above) Become lighter in color with depth	243 ppm.		1527 AK04419	Run #3 8-12 ft D: 4 ft R: 3.3 ft
	P. Yellow-brn sand				
10	Lt-green-gray clay; moist, sticky plastic.	N/A	AK04418	N/A	water at 9.6 ft BGS.

rare sand stringers.

HTRW DRILLING LOG

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

HOLE NUMBER B-03-04 26

SHEET 3 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
11	Lt green-grey clay (As Above)	N/A	AR0041E	N/A	
12	No Recovery				
13	No soil Sampling	N/A		N/A	
	End of Boring				TD = 13 ft.
14					
15					
16					
17					
18					
19					
20					

26

45

HTRW DRILLING LOG	DISTRICT: USACE Savannah	HOLE NUMBER D-DB-Ø5
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3

3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG
5. NAME OF DRILLER: Bobby Lewis	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig; 2-in. diam. Macro-core barrels with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:
	9. SURFACE ELEVATION:
	10. DATE STARTED: 1/16/Ø8 / 11. DATE COMPLETED: 1/16/Ø8
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 9.2 ft BGS
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A
14. TOTAL DEPTH OF HOLE: 12.Ø ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES N/A
	N/A	N/A	

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	BTEX	—	—	—	—	

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR:
	X	—	—	[signature]

LOCATION SKETCH/COMMENTS — SCALE:

See page 3, this logbook, for location sketch.

QA CHECK BY: _____ (Signature and Date)

well atmosphere, soil core, breathing zone, vehicle, equipment, etc.)

HTRW DRILLING LOG

PROJECT: Fort Stewart/Hunter | INSPECTOR Timothy Coffey | HOLE NUMBER D-DB-05 46 | SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1	Concrete	N/A	N/A	N/A	
	2	Lt. brown sand: dry, thin bed.	35¢ ppm		N/A	Run #1 1.2-4 ft D: 2.8 ft R: 2.4 ft
		DK gray-black silty sand: dry, thin bed				
		Med. gray sand: dry, F-grnd, mass, rel. loose.				
	3	Lt. gray-brn silty sand: dry, F-grnd, rel. packed.				
	4	No Recovery	N/A		N/A	
	5	V. DK gray-black silty sand:	1¢2¢ ppm		1¢15 N/A	Run #2 4-8 ft D: 4 ft R: 3.¢ ft
		DK red-brown silty sand: dry, massive, F-grnd, rel. loose. Gradual color chng dk to light w/depth		N/A	1¢17	
	6	Red-yellow silty sand (As Above)	796 ppm		N/A	
	7					
	8	No Recovery	N/A		N/A	
	9	Light brown sand: dry, F-grnd, rel. loose; some dark silty zones.	333¢ ppm	AK¢578	1¢23 AK¢519	Run #3 8-12 ft D: 4 ft R: 3.5 ft
	10	Lt. green-gray clay: moist, plastic	N/A		N/A	water at 9.2 ft BGS.

HTRW DRILLING LOG

PROJECT: Fort Stewart/Hunter	INSPECTOR Timothy Coffey	HOLE NUMBER DB-054
		SHEET 3 OF 3

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	11	Lt. green-gray clay: moist, plastic, very stiff.	N/A	AR05710	N/A	
	12	No Recovery				
		End of Boring				TD = 12 ft
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					

38

HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-06
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG	
5. NAME OF DRILLER: Bobby Lewis	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING & SAMPLING EQUIPMENT: Geoprobe 5400 truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam screened water sampler.	8. HOLE LOCATION:	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 1/16/08	11. DATE COMPLETED: 1/16/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 9.6 ft BGS	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 15.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED: N/A	UNDISTURBED: N/A	19. TOTAL NUMBER OF CORE BOXES: N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS — SCALE:

See page 3, this logbook, for location sketch.

QA CHECK BY: _____ (Signature and Date)

HTRW DRILLING LOG

HOLE NUMBER D-DB-06 39

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 2 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
1	Concrete	N/A	N/A	N/A	
2	Light brown sand: Dry, F-grnd, mostly massive, rel. soft.	343 ppm		N/A	Run #1 1.2-4 ft D: 2.8 ft R: 2.2 ft urea odor
3					
4	No Recovery	N/A		N/A	
	As Above			#917	Run #2 4-8 ft D: 4 ft R: 3.5 ft
5	V. DK red-black sandy silt; dry, F-grnd, massive (w/ slight lightening of color at bottom), rel. packed.	310 ppm	N/A	N/A	
6		618 ppm		#919 N/A	
7	Light brown sand: dry, F-grnd, mass/uniform, rel. loose				
8	No Recovery	N/A		N/A	
	As Above			#926	Run #3 8-12 ft D: 4 ft R: 3.3 ft
9	Lt. gray-green clay: moist to wet, plastic, mottled/streaked, sand/silt ≤20%.	400 ppm		Aqueous	water at 9.6 ft BGS
10		N/A		N/A	

HTRW DRILLING LOG

HOLE NUMBER D-DB-064

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	Clay (as above)		N/A		
	Lt. brown-gray sandy clay / clay sand: wet, F-grnd.	N/A		N/A	
11	Lt. brn-gray sand: wet, F. to m-grnd.				11
	No Recovery				
12					12
	No Soil ~~drilling~~ TBC Sampling				
13					13
		N/A	AK0618	N/A	
14					14
15					
	End of Boring				TD = 15 ft
16					16
17					17
18					18
19					19
20					20

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HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-07
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG	
5. NAME OF DRILLER: Bobby Lewis	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING OR SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT Rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened waters sampler.	8. HOLE LOCATION:	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 1/16/08	11. DATE COMPLETED: 1/16/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 10.0 Ft BGS	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 14.0 Ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED: N/A	UNDISTURBED: N/A	19. TOTAL NUMBER OF CORE BOXES: N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS — SCALE:

See page 3, this logbook, for location sketch.

well atmosphere, soil core, breathing zone, venting combustible air, etc.)

(Signature and Date)

HTRW DRILLING LOG

HOLE NUMBER D-DB-Ø73

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 2 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
1	Concrete	N/A	N/A	N/A	
2	DK gray-brown sand: dry, mass., F-grnd.	34.3 ppm		N/A	Run #1 1.5-4 ft D: 2.5 ft R: 2.Ø ft
3	grades to: Paly yellow-brown sand: massive, F-grnd, dry.				
4	No Recovery	N/A		N/A	
5	As Above			ØE14	Run #2 4-8 ft
	Brown-gray sand: dry, F-grnd, mass, rel. loose.	45.5 ppm		N/A	D: 4 ft R: 3.2 ft
6	DK brn silty sand: Dry, v. F-grnd, rel. packed.		N/A	ØE16	
7	Brn-gray to yell-brn sand: dry, massive, F-grnd, rel. loose.	122 ppm		N/A	
8	No Recovery	N/A		N/A	
9	Yellow-brown Sand (As Above)	167 ppm.		ØE24 AKØ719	Run #3 8-12 ft D: 4 ft R: 3.2 ft
10					

HTRW DRILLING LOG

HOLE NUMBER D-DB-07 33

PROJECT: Fort Stewart/Hunter | INSPECTOR Timothy Coffey | SHEET 3 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	Yell-brn sand. (As Above) some darker, silty zones,				Water at 14 ft BGS,
11	Dk brn silty sand.	N/A		N/A	
	No Recovery				
12	No soil ~~drilling~~ sampling				
13		N/A	AK07 18 (Reg) AK07 14 (Dup)	N/A	
14					
	End of Boring				TD = 14 ft
15					
16					
17					
18					
19					
20					

24

HTRW DRILLING LOG

HOLE NUMBER DB-08

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 2 OF 3

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1	Concrete	N/A	N/A	N/A	
	2	Gravel (undiff.) Lt. yelt brn clay/silty sand; dry, mottled, rel. packed, F-grnd.	835 ppm		N/A	Run #1 1.3-4 ft D: 2.7 ft R: 1.9 ft
	3					
	4	No Recovery	N/A		N/A	
	5	Pale yelt brn to Lt. gray sand; dry, rel. massive, F-grnd, rel. loose.	768 ppm		N/A	Run #2 4-8 ft D: 4 ft R: 3.0 ft
	6		3150 ppm	N/A	0912 AK0819	
	7	DK brn silty sand.				
	8	No Recovery	N/A		N/A	
	9	DK brn silty sand Lt green gray clay; dry, very stiff/hard, st plastic.	3114 ppm		0917 N/A	Run #3 8-12 ft D: 4 ft R: 3.4 ft
	10	See below.				

HTRW DRILLING LOG

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Colley

HOLE NUMBER D-DB-08 5

SHEET 3 OF 3

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	11	Lt. gray to white sand: dry to wet, F-grnd, mod. loose, bdd (faint).	3114 ppm	N/A	0917	water at 11.0 ft BGS
	12	No Recovery	N/A		N/A	
	13	No soil sampling	N/A	AK08018	N/A	
	14					
	15	End of Boring				TD = 15 ft.
	16					
	17					
	18					
	19					
	20					

24

10

HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-09
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG	
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 1/23/08	11. DATE COMPLETED: 1/23/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 9.0 ft BGS	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 13.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED: N/A	UNDISTURBED: N/A	19. TOTAL NUMBER OF CORE BOXES: N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	23. SIGNATURE OF INSPECTOR: Timothy Coffey		

LOCATION SKETCH/COMMENTS — SCALE:

See page 3, this logbook, for location sketch.

Well atmosphere, sun use, weathering area, venting compounds, etc.)

(Signature and Date)

HTRW DRILLING LOG

HOLE NUMBER D-DB-09

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 2 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
1	Concrete	N/A	N/A	N/A	
2	Tan brown sand: dry, F-grnd, rel loose.				Run #1 1.3-4 ft D: 2.7 ft R: 2.5 ft
	Lt. gray to white sand: dry, F-grnd, massive.				
3	Brown silty sand: dry to moist, F-grnd, massive/uniform, rel. packed.	296 ppm		N/A	
4	No Recovery	N/A		N/A	
5	Brown silty sand (As Above) grades to: Lt. brn silty sand: dry to moist, F-grnd, massive, rel. packed.	460 ppm	N/A	N/A	Run #2 4-8 ft D: 4 ft R: 3.2 ft
6		414 ppm		1037 N/A	
7	grades to: P. Yell-brn sand: rel loose				
8	No Recovery	N/A		N/A	
9	P. Yell-brn sand. V. DK Brown-gray silty sand: moist to wet, V. F-grnd, packed, massive.	340 ppm		1037 AK0919	Run #3 8-12 ft D: 4 ft R: 3.3 ft water at 9.0 ft
		N/A	AK0918	N/A	
10	See Below				

HTRW DRILLING LOG

HOLE NUMBER D-DB-09

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Lt. green-gray clay; moist to wet, stiff, sl. pastic;				
	11	Lt. grn-gray sandy clay;	N/A	AA0918	N/A	
		No Recovery				
	12	No soil sampling	N/A		N/A	
	13	End of Boring				TD = 13 ft.
	14					
	15					
	16					
	17					
	18					
	19					
	20					

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TRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-10
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG	
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 1/24/08	11. DATE COMPLETED: 1/24/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 10.4 Ft. BGS	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 14.0 Ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED: N/A	UNDISTURBED: N/A	19. TOTAL NUMBER OF CORE BOXES: N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS — SCALE:

See page 3, this logbook, for location sketch.

(Signature and Date)

HTRW DRILLING LOG

HOLE NUMBER D-DB-16 46

PROJECT: Fort Stewart/Hunter

INSPECTOR: Timothy Coffey

SHEET 2 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
1	Concrete	N/A	N/A	N/A	
2	DK gray silty sand Lt. brown silty sand: dry, F-grnd, gen. massive w/ faint bedding, rel. packed,	537 ppm		N/A	Run #1 1.3-4 ft D: 2.7 ft R: 1.9 ft
3					
4	No Recovery	N/A		N/A	
5	Lt. brown silty sand (As Above) grades to: Red-yellow sand: dry, F-grnd, loose, speckled.	1140 ppm	N/A	Ø816 N/A	Run #2 4-8 ft D: 4 ft R: 2.5 ft
6					
7	No Recovery	N/A		N/A	
8	Lt. brown sand: dry, F-grnd, loose.	3040 ppm		Ø82 AK1919	Run #3 8-12 ft D: 4 ft R: 3.5 ft
9	V. DK gray-brn silty sand; dry, rel. packed; F-grnd				
10	Lt. green-gray clay: moist to wet, v. stiff, sl. plastic.	N/A		N/A	

HTRW DRILLING LOG

HOLE NUMBER D-DB-14

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Colley

SHEET 3 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	Lt. green-gray clay (As above)				water at 10.4 ft BGS.
11	Lt. brown-gray sandy clay, wet, non-plast, f-grnd.	N/A		N/A	
12	No Recovery		AK10 18		
13	No soil sampling	N/A		N/A	
14	End of Boring				TD = 14 ft.
15					
16					
17					
18					
19					
20					

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HTRW DRILLING LOG	DISTRICT: USACE Savannah	HOLE NUMBER D-DB-11
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3

3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:
	9. SURFACE ELEVATION:
	10. DATE STARTED: 1/24/08 11. DATE COMPLETED: 1/24/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 10.1 ft BGS.
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A
14. TOTAL DEPTH OF HOLE: 14.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES N/A
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —

OTHER (SPECIFY): —

OTHER (SPECIFY): —

21. TOTAL CORE RECOVERY %

23. SIGNATURE OF INSPECTOR: Timothy Coffey

LOCATION SKETCH/COMMENTS

SCALE:

See page 3, this logbook, for location sketch.

well atmosphere, soil core, breathing zone, venting compressed air, etc.)

(Signature and Date)

HTRW DRILLING LOG

PROJECT: Fort Stewart/Hunter	INSPECTOR Timothy Coffey	HOLE NUMBER D-DB-11
		SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1	Concrete	N/A	N/A	N/A	
	2	Lt. brown silty sand: dry to moist, F-grnd, rel. packed.	478 ppm		N/A	Run #1 1.3-4 ft D: 2.7 ft R: 2.0 ft
	3					
	4	No Recovery	N/A		N/A	
	5	DK red-brown silty sand: dry, F-grnd, massive to: V. DK red-black sandy silt: dry, V. F-grnd, rel. packed, massive/uniform; (a few hard nodules/zones)	659 ppm	N/A	0908 N/A	Run #2 4-8 ft D: 4 ft R: 3.6 ft
	6				0910	
	7		636 ppm		N/A	Urea odor
	8	No Recovery	N/A		N/A	
	9	DK red-brown sandy silt (As Above) Brown-gray clay sand: dry, crumbly, F-grnd.	3340 ppm		0915 AK1119	Run #3 8-12 ft D: 4 ft R: 3.5 ft Glycol odor
	10	Gray-green sandy clay (see below)				

HTRW DRILLING LOG

HOLE NUMBER D-DB-11 54

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Colley

SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Moist to wet, mod. plastic, Sand ≤ 25%.			Ø915	Water at 10.1 ft
	11		N/A		N/A	
		Brn-gray clay: Sand ≤ 10%				
		No Recovery				
	12			Ø0 AK1118		
		No soil sampling				
	13		N/A		N/A	
	14					
		End of Boring				TD = 14 ft
	15					
	16					
	17					
	18					
	19					
	20					

24

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HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-12
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3

3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:
	9. SURFACE ELEVATION:
	10. DATE STARTED: 1/24/08 11. DATE COMPLETED: 1/24/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 9.8 ft BGS.
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A
14. TOTAL DEPTH OF HOLE: 14.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	~~DISTURBED~~ N/A	~~UNDISTURBED~~ N/A	19. TOTAL NUMBER OF CORE BOXES: N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	BTEX	Lead	PAH	—	—	

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	X	—	—	[signature]

LOCATION SKETCH/COMMENTS SCALE:

See page 3, this logbook, for location sketch.

HTRW DRILLING LOG

PROJECT: Fort Stewart/Hunter	INSPECTOR Timothy Coffey	HOLE NUMBER D-DB-12
		SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1	Concrete	N/A	N/A	N/A	
	2	DK grey silty sand: dry, F-grnd, massive.				Run #1 1.2 - 4 ft D: 2.8 ft R: 2.3 ft
	3	Lt. brn to pink-org silty sand: dry F-grnd, massive w/ subtle color variations, rel. packed.	291 ppm		N/A	
	4	No Recovery	N/A		N/A	
	5	Brown to dark brown sand, massive, dry, rel. packed, F-grnd.	135 ppm	N/A	N/A	Run #2 4-8 ft D: 4 ft R: 3.4 ft
	6	grades to:			1007	
	7	Pale red sand: dry, massive, rel. loose, F-grnd.	105 ppm		N/A	
	8	No Recovery	N/A		N/A	
	9	Pale red sand (As Above)	384 ppm		1012 AK1219	Run #3 8-12 ft D: 4 ft R: 3.2 ft water at 9.8 ft
	10		N/A		N/A	

HTRW DRILLING LOG

HOLE NUMBER D-DB-12

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	11	Pale red to Lt red-yell sand (As Above) FeO staining.	N/A		N/A	
	12	No Recovery		AK1218 (Reg) AK1214 (Dupl.)		
	13	No soil sampling ↓	N/A		N/A	
	14	End of Boring				TD = 14 ft.
	15					
	16					
	17					
	18					
	19					
	20					

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HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-13
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG	
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 1/24/00	11. DATE COMPLETED: 1/24/00
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 9.0 ft BGS.	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 13.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	~~DISTURBED~~ N/A	~~UNDISTURBED~~ N/A	19. TOTAL NUMBER OF CORE BOXES N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	BTEX	Lead	PAH	—	—	
22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		
	X	—	—	[signature]		

LOCATION SKETCH/COMMENTS — SCALE:

See page 3, this logbook, for location sketch.

HTRW DRILLING LOG

HOLE NUMBER D-DB-13

PROJECT: Fort Stewart/Hunter | INSPECTOR Timothy Coffey | SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1	Concrete	N/A	N/A	N/A	
	2	Gray-brn silty sand. Lt. brn-gray sand, dry, F-grnd, bdd (faint), rel. packed	11.8 ppm		1100 AK1319	Run #1 1.3-4 ft D: 2.7 ft R: 2.2 ft
	3	Dk brn-gray silty sand: dry, F-grnd, pckd.				
	4	No Recovery	N/A		N/A	
	5	DK red-black sandy silt: dry, v. F-grnd, massive/uniform, packed.	0.0 ppm	N/A	N/A	Run #2 4-8 ft D: 4 ft R: 3.6 ft
	6	Red-yellow to dk red-yellow silty sand: dry, F-grnd, rel. loose, some dark intervals (silty).	0.0 ppm		1111 N/A	
	7					
	8	No Recovery	N/A		N/A	
	9	Red-yellow silty sand (As Above) grades to:	0.0 ppm		N/A	Run #3 8-12 ft D: 4 ft R: 3.4 ft
	10	DK red-yellow sand: wet, massive, F-grnd, packed.	N/A	AK1310	N/A	water at 9.0 ft BGS.

HTRW DRILLING LOG

HOLE NUMBER D-DB-13

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		DK red-yellow sand (As Above)				
	11	DK red-brn sandy silt; wet, v. F-grnd well packed,	N/A	AA13/B	N/A	
	12	No Recovery				
	13	No soil Sampling	N/A		N/A	
		End of Boring				TD = 13 ft.
	14					
	15					
	16					
	17					
	18					
	19					
	20					

17

HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-14
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG	
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam screened water sampler.	8. HOLE LOCATION:	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 1/23/08	11. DATE COMPLETED: 1/23/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 9.6 ft BGS	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 14.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	~~DISTURBED~~ N/A	~~UNDISTURBED~~ N/A	19. TOTAL NUMBER OF CORE BOXES: N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS

SCALE:

See page 3, this logbook, for location sketch.

(Signature and Date)

HTRW DRILLING LOG

HOLE NUMBER D-DB-14 18

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 2 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
1	Concrete	N/A	N/A	N/A	
2 3	Brn-gray to lt. brn-gray sand; moist, F-grnd, mottled to bdd, rel. packed; 1 FeO concretion (nodule)	763 ppm		N/A	Run #1 1.2-4 ft D: 2.8 ft R: 2.4 ft
4	No Recovery	N/A		N/A	
5	Lt. brn-gray to Lt. brown sand (As Above) some silt near bottom	113 ppm		1145 N/A	Run #2 4-8 ft D: 4 ft R: 3.4 ft
6 7	Lt. green-gray sandy clay, moist, rel. stiff, sl. plast to non-plastic.	844 ppm	N/A	1147 AK1419	
8	No Recovery	N/A		N/A	
9 10	White to light gray sand; dry to wet, F-grnd, massive w/ scattd bedding planes, rel. loose, sugary.	338 ppm N/A		1153 N/A N/A	Run #3 8-12 ft D: 4 ft R: 2.8 ft water at 9.6 ft BGS.

HTRW DRILLING LOG

HOLE NUMBER D-DB-14 19

PROJECT Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	White to light gray sand (As Above).				
11	No Recovery	N/A	AR1410	N/A	
12					
13	No soil Sampling ↓	N/A		N/A	
14					
	End of Boring				TD = 14 ft.
15					
16					
17					
18					
19					
20					

24

HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-15
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG	
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400	
7. TYPES AND TYPES OF DRILLING & SAMPLING EQUIPMENT: Geoprobe 5400 truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 1/23/08	11. DATE COMPLETED: 1/23/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 9.8 ft BGS	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 14.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	~~DISTURBED~~ N/A	~~UNDISTURBED~~ N/A	19. TOTAL NUMBER OF CORE BOXES N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC BTEX	METALS Lead	OTHER (SPECIFY) PAH	OTHER (SPECIFY) —	OTHER (SPECIFY) —	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED X	MONITORING WELL —	OTHER (SPECIFY) —	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS SCALE:

See page 3, this logbook, for location sketch.

well atmosphere, soil core, breathing zone, venting com sed air, etc.)

(Signature and Date)

BY:

HTRW DRILLING LOG

HOLE NUMBER D-DB-15 25

PROJECT: Fort Stewart/Hunter | INSPECTOR Timothy Coffey | SHEET 2 OF 3

(A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1	Concrete	N/A	N/A	N/A	
	2	Lt. brown silty sand: dry to moist, F-grnd, rel. loose, gen. massive w/ mnr FeO staining.	73.8 ppm		N/A	Run #1 ~~1~~.3 - 4 ft D: 2.7 ft R: 2.5 ft
	3	Lt. gray to white sand: moist to dry, F-grnd, cont'd FeO staining.				
	4	No Recovery	N/A		N/A	
	5	Lt. brn sand: dry, rel. loose, F-grnd, massive. grades to: white sand: dry, F-grnd, loose, massive	87.1 ppm	N/A	1240 N/A	Run # 2 4-8 ft D: 4 ft R: 3.5 ft
	6	Brown silty sand: dry to moist, F-grnd, massive, rel packed	274¢ ppm		1243 AK1519	
	7	Lt. brn-gray sandy clay: dry, crumbly, mass to thin-lam.				
	8	No Recovery	N/A		N/A	
	9	Lt. brn-gray sandy clay (As Above)	262¢ ppm		N/A	Run # 3 8-12 ft D: 4 ft R: 3.2 ft
	10	White sand: dry to wet, massive/uni-form, sugary.	N/A-A-46		N/A	water at 9.8 ft BGS.

HTRW DRILLING LOG

HOLE NUMBER D-DB-15 ale

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Collins

SHEET 3 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
11	White sand (As Above)	N/A	AR15/18	N/A	
12	No Recovery				
13	No soil sampling ↓	N/A		N/A	
14	End of Boring				TD = 14 ft.
15					
16					
17					
18					
19					
20					

HTRW DRILLING LOG

HOLE NUMBER D-03-16

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 2 OF 3

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1	Concrete	N/A	N/A	N/A	
	2	Gray-brown silty sand; moist, F-grnd. grades to: Yellow-brown silty sand; dry, F-grnd, massive.	142 ppm		N/A	Run #1 1.2-4 ft D: 2.8 ft R: 2.5 ft
	3	Lt. gray to pale yellow-brn sand: Dry, F-grnd, rel. loose.				urea odor
	4	No Recovery	N/A		N/A	Run #2 4-8 ft D: 4 ft R: 3.2 ft
	5	Chocolate brown silty sand; moist to dry, F-grnd, rel. packed.	95.7 ppm		N/A	
	6	Lt. brown to yellow brown silty sand: moist, F-grnd, loose, massive w/ subtle color variations (dark intervals more packed)	90.7 ppm	N/A	1256 N/A	
	7					
	8	No Recovery	N/A		N/A	
	9	Lt. brn silty sand (As Above) Lt. green-gray clay: moist, stiff, sl. to non-plastic	118 ppm		1341 AK1619	Run #3 8-12 ft D: 4 ft R: 3.5 ft Water at 9.8 ft BGS.
	10	See below	N/A		N/A	

HTRW DRILLING LOG

HOLE NUMBER D-DB-16

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	11	Lt. brn-gray to white sand: wet, F-grnd, F-grnd, sugary, massive.	N/A		N/A	
	12	No Recovery				
	13	No soil Sampling ↓	N/A	AK 16 18	N/A	
	14	End of Boring				TD = 14 ft
	15					
	16					
	17					
	18					
	19					
	20					

10

HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-17
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG	
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 Truck mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 1/24/08	11. DATE COMPLETED: 1/24/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 9.7 ft. BGS	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 14.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	~~DISTURBED~~ N/A	UNDISTURBED N/A	19. TOTAL NUMBER OF CORE BOXES N/A				
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC BTEX	METALS Lead	OTHER (SPECIFY) PAH	OTHER (SPECIFY) —	OTHER (SPECIFY) —	21. TOTAL CORE RECOVERY %	
22. DISPOSITION OF HOLE	BACKFILLED X	MONITORING WELL —	OTHER (SPECIFY) —	23. SIGNATURE OF INSPECTOR [signature]			

LOCATION SKETCH/COMMENTS

SCALE:

See page 3, this logbook, for location sketch.

UA CHECK BY: _____ (Signature and Date)

well atmosphere, soil color, drilling fluid, etc.)

HTRW DRILLING LOG

HOLE NUMBER D-DB-17

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 2 OF 3

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1	Concrete	N/A	N/A	N/A	
	2	DK yellow-brown silty sand; dry to moist, F-grnd, gen. massive, many FeC staining from middle to bottom.	125 ppm		N/A	Run #1 1.5-4 ft D: 2.5 ft R: 2.0 ft
	3					
	4	No Recovery	N/A		N/A	
	5	DK yellow-brown silty sand (As Above)	400.2 ppm		N/A	Run #2 4-8 ft D: 4 ft R: 3.5 ft
	6	Dark brown silty sand; dry, F-grnd, mottled, rel. packed.	108 ppm	N/A	1357	
	7	Green-gray sandy clay; dry, crumbly, weak, non-plast. sand ≤40%.			N/A	
	8	No Recovery	N/A		N/A	
		Green-gray sandy clay			1467	Run #3 8-12 ft D: 4 ft R: 3.2 ft
	9	Lt. yellow-brown to white sand; dry to wet, massive w/ occ. bedding planes visible, F-grnd, sugary.	741 ppm		KK1719	water at 9.7 ft BGS.
	10		N/A		N/A	

HTRW DRILLING LOG

HOLE NUMBER D-DB-17

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	11	Lt. yellow-brown to white sand. (As Above).	N/A		N/A	
	12	No Recovery		AK1718 (Reg) AK1714 (Dup)		
	13	No soil Sampling	N/A		N/A	
	14	End of Boring				T.D = 14 ft
	15					
	16					
	17					
	18					
	19					
	20					

17

HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-18
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG	
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400	
7. TYPES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 1/24/08	11. DATE COMPLETED: 1/24/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 9.9 Ft BGS	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 14.0 Ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED: N/A	UNDISTURBED: N/A	19. TOTAL NUMBER OF CORE BOXES: N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS — SCALE:

See page 3, this logbook, for location sketch.

QA CHECK BY: _____ (Signature and Date)

well, atmosphere, soil core, breathing zone, venting compressed air, etc.)

HTRW DRILLING LOG

HOLE NUMBER D-DB-18 18

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Collar

SHEET 2 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
1	Concrete	N/A	N/A	N/A	
2	DK gray-black silty sand; moist, F-grnd, rel. packed, "dirty"	965 ppm		N/A	Run #1 1.2-4 ft D: 2.8 ft R: 2.4 ft
3	Lt. brow-yellow sand: dry, F-grnd, rel. packed, gen. massive w/ faint bedding planes visible.				
4	No Recovery	N/A		N/A	
	Lt. Yell-brn sand				Run #2 4-8 ft
5	Red-yellow silty sand: dry to moist, F-grnd, massive/uniform.	528 ppm		N/A	D: 4 ft R: 3.2 ft
6		573 ppm	N/A	1504 N/A	
7	DK red-yellow silty sand.				
8	No Recovery	N/A		N/A	
9	DK red-yellow silty sand: dry, F-grnd, massive, rel. packed.	3224 ppm		1506 AK1819	Run #3 8-12 ft D: 4 ft R: 3.4 ft
10	Lt brown sand: moist to wet, gen. massive, F-grnd.	N/A		N/A	water at 9.9 ft BGS

HTRW DRILLING LOG

HOLE NUMBER D-DB-18 19

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Lt brown sand (As Above)				
	11	DK brn silty sand wet, massive to bdd, E-grind.	N/A		N/A	
		Lt. green-gray clay.				
	12	No Recovery				
	13	No soil Sampling ↓	N/A	AR1818	N/A	
	14					
		End of Boring				TD = 14 ft.
	15					
	16					
	17					
	18					
	19					
	20					

24

HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-19
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG	
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 1/25/08	11. DATE COMPLETED: 1/25/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 8.2 ft BGS	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 12.5 ft BGS.	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	~~DISTURBED~~ N/A	~~UNDISTURBED~~ N/A	19. TOTAL NUMBER OF CORE BOXES: N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS — SCALE:

See page 3, this logbook, for location sketch.

CHECK BY: _____ (Signature and Date)

well atmosphere, soil core, breathing zone, vehicle, etc.)

HTRW DRILLING LOG

HOLE NUMBER D-DB-19

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 2 OF 3

(A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1	Concrete	N/A	N/A	N/A	
	2	Dk gray-black silty sand: moist, F-grnd, massive/uniform, rel. loose,	0.2 ppm	N/A	N/A	Run #1 1.3-4 ft D: 2.7 ft R: 2.4 ft
	3					
	4	No Recovery	N/A		N/A	
	5	Black silt: dry, v. F-grnd, mass/uniform, soft. One large wood fragment.	3.7 ppm	N/A	0811	Run #2 4-8 ft D: 4 ft R: 2.7 ft
		Dk red-yellow silt sand: dry, mottled.			AK1919	
	6	Red-yellow silty sand: dry, F-grnd, rel. loose,				
	7	No Recovery	N/A		N/A	
	8	Strong brown sand: wet, F- to M-grnd, massive, packed,	N/A	AK1918	N/A	water at 8.2 ft BGS. Run #3 8-12 ft D: 4 ft R: 3.5 ft
	9					
	10					

HTRW DRILLING LOG

HOLE NUMBER D-DB-19 26

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Calloway

SHEET 3 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
11	(As Above)	N/A	AK1910	N/A	
	No Recovery				
12	No soil sampling	N/A		N/A	
	End of Boring				TD = ~~11~~ 12.5 ft bgs
13					
14					
15					
16					
17					
18					
19					
20					

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TRW DRILLING LOG	DISTRICT: USACE Savannah	HOLE NUMBER D-DB-2Φ
COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3

1. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig; 2-in. diam. Macrocore barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:
	9. SURFACE ELEVATION:
	10. DATE STARTED: 1/23/08 — 11. DATE COMPLETED: 1/23/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 9.9 Ft BGS
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A
14. TOTAL DEPTH OF HOLE: 14.0 Ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED: N/A	UNDISTURBED: N/A	19. TOTAL NUMBER OF CORE BOXES: N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS — SCALE:

See page 3, this logbook, for location sketch.

HTRW DRILLING LOG

HOLE NUMBER D-DB-20

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 2 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
1	Concrete	N/A	N/A	N/A	
2 3	Lt. Brn-gray to yellow-brown silty sand: dry, F-grnd, rel. packed, subtle color variations.	63.1 ppm		1441 AKZ019	Run #1 1.4-4 ft D: 2.6 ft R: 2.3 ft
4	No Recovery	N/A		N/A	
5	Lt. brown-gray to Lt. gray sand (As Above)	13.6 ppm		1446 N/A	Run #2 4-8 ft D: 4 ft R: 3.1 ft
6		34.3 ppm	N/A	1448 N/A	
7	Brown silty sand: Dry, F-grnd, rel. loose.				
8	No Recovery	N/A		N/A	
9 10	P. yellow-brn sand: dry, F-grnd, gen. massive, rel. loose. See below	41.7 ppm N/A		1454 N/A N/A	Run #3 8-12 ft D: 4 ft R: 3.4 ft water at 9.9 ft BGS.

HTRW DRILLING LOG

HOLE NUMBER D-DB-04

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
11	Brown to grayish-brn to white silty sand: wet, thin bdd, F-grnd, rel. packed.	N/A	AKZ018	N/A	
12	No Recovery				
13	No soil sampling ↓	N/A		N/A	
14	End of Boring				TD = 14 ft.
15					
16					
17					
18					
19					
20					

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HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-21
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3

3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400
7. TYPES AND TYPES OF DRILLING & SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:
	9. SURFACE ELEVATION:
	10. DATE STARTED: 1/23/08 11. DATE COMPLETED: 1/23/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 9.9 ft BGS
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A
14. TOTAL DEPTH OF HOLE: 14 ft BGS	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED: N/A	UNDISTURBED: N/A	19. TOTAL NUMBER OF CORE BOXES: N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS SCALE:

See page 3, this logbook, for location sketch.

HTRW DRILLING LOG

PROJECT: Fort Stewart/Hunter | INSPECTOR Timothy Coffey | HOLE NUMBER D-DB-21 | SHEET 2 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
1	Concrete	N/A	N/A	N/A	
2–3	Yellow-brown silty sand: dry, F-grnd, rel. loose, massive/uniform.	679 ppm	↑	N/A	Run #1 1.3-4 ft D: 2.7 ft R: 2.2 ft
4	No Recovery	N/A		N/A	
5	DK yell-brn silty sand. Lt. gray to white sand: dry, F-grnd, massive w/ subtle color variations, rel. loose.	214 ppm	N/A	1353 N/A	Run #2 4-8 ft D: 4 ft R: 3.3 ft
6–7		621 ppm	↓	1355 N/A	Product odor.
7	DK yell-brn silty sand: dry, F-grnd,				
8	No Recovery	N/A		N/A	
9	Yellow-brown sand: dry, F-grnd, rel. loose, massive w/ sl. color variations.	277 ppm		1359. AK2119	Run #3 8-12 ft D: 4 ft R: 3.4 ft
10	Lt. gray to white sand (see below)	N/A		N/A	water at 9.9 ft BGS.

HTRW DRILLING LOG

HOLE NUMBER D-DB-21 83

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
11	Lt. gray to white, sand: dry to wet, massive/uniform, f-grnd, sugary.	N/A		N/A	
12	No Recovery				
13	No soil Sampling ↓	N/A	AR2118	N/A	
14	End of Boring				TD = 14 ft.
15					
16					
17					
18					
19					
20					

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HTRW DRILLING LOG	DISTRICT: USACE Savannah	HOLE NUMBER D-DB-22
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3

3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 truck-mounted DPT rig; 2-in diam. Macro-core barrel with Acetate liners; 1-in diam. screened water sampler.	8. HOLE LOCATION:
	9. SURFACE ELEVATION:
	10. DATE STARTED: 1/25/08 11. DATE COMPLETED: 1/25/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 9.7 ft BGS
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A
14. TOTAL DEPTH OF HOLE: 13.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES N/A
	N/A	N/A	

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	BTEX	Lead	PAH	—	—	
22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		
	X	—	—			

LOCATION SKETCH/COMMENTS SCALE:

See page 3, this logbook, for location sketch.

QA CHECK BY: _____ (Signature and Date)

well atmosphere, soil core, breathing zone, venting [illegible] etc.)

HTRW DRILLING LOG

PROJECT Fort Stewart/Hunter	INSPECTOR Timothy Coffey	HOLE NUMBER D-DB-22	SHEET 2 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
1	Concrete	N/A	N/A	N/A	
	Gray-brn silty sand.				Run #1
2	Gray-brown to brown-yellow sand; dry, F-grnd, massive, rel. packed, FeO staining.	550 ppm		N/A	1.4-4 ft D: 2.6 ft R: 2.0 ft
3					
4	No Recovery	N/A		N/A	
	As Above				Run #2
5	DK red-brown to Lt. red-org silty sand; dry, F-grnd, massive w/ color variations.	129 ppm	N/A	N/A	4-8 ft D: 4 ft R: 3.4 ft
6		409 ppm		0909 N/A	
7	DK red-black sandy silt; dry, v. F-grnd, packed,				
8	No Recovery	N/A		N/A	
9	DK red-org silty sand; dry, F-grnd, gen. massive, rel. loose,	1830 ppm		0913 AKZ19 (Rep) AKZ13 (Ref)	Run #3 8-12 ft D: 4 ft R: 3.6 ft water at 9.7 ft BGS.
10	Gray-brn sand; wet, F- to M-grnd.	N/A	AKZ16	N/A	

HTRW DRILLING LOG

PROJECT: Fort Stewart/Hunter	INSPECTOR Timothy Coffey	HOLE NUMBER D-DB-22 35
		SHEET 3 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
11	Lt. green-gray clay: moist to wet, very stiff, sl plastic.	N/A	AKZ18	N/A	
12	No Recovery				
13	No soil Sampling	N/A		N/A	
	End of Boring				TD = 13 ft.
14					
15					
16					
17					
18					
19					
20					

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TRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-23
COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3

PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG
NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400
TYPES AND TYPES OF DRILLING & SAMPLING EQUIPMENT: Geoprobe 6400 Truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners. 1-in. diam. screened water sampler.	8. HOLE LOCATION:
	9. SURFACE ELEVATION:
	10. DATE STARTED: 1/25/08 11. DATE COMPLETED: 1/25/08
OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 9.6 ft BGS.
DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A
TOTAL DEPTH OF HOLE: 13.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

GEOTECHNICAL SAMPLES	DISTURBED: N/A	UNDISTURBED: N/A	19. TOTAL NUMBER OF CORE BOXES: N/A			
SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %
DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS — SCALE:

See page 3, this logbook, for location sketch.

(Signature and Date)

HTRW DRILLING LOG

HOLE NUMBER D-DB-2339

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 2 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
1	Concrete	N/A	N/A	N/A	
2	DK gray-black silty sand: moist, F-grnd, "dirty".	358 ppm		N/A	Run #1 1.3-4 ft D: 2.7 ft R: 2.3 ft
3	Lt. yellow-brown sand: dry, F-grnd, massive (but grad. from above).				
4	No Recovery	N/A		N/A	Run #2 4-8 ft D: 4 ft R: 3.1 ft
5	Pale red-brown sand: dry, F-grnd, massive	165 ppm	N/A	N/A	
6	Red-brown silty sand: dry, F-grnd, massive, sl. color variations.	655 ppm		1032 N/A	
7	DK red-brn to red yellow sandy silt: dry, some nodules.				
8	No Recovery	N/A		N/A	
9	Red-yellow sand: dry to wet, F-grnd, micaceous, mottled (speckled) rel. loose.	2824 ppm	AK2318	1044 AK2319	Run #3 8-12 ft D: 4 ft R: 2.8 ft water at 9.6 ft BGS
10		N/A		N/A	

HTRW DRILLING LOG

HOLE NUMBER D-DB-23 4of

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	Reddish-yellow sand (As Above).				
11	No Recovery (some running sand).	N/A	AR2318	N/A	
12	No soil Sampling	N/A		N/A	
13	End of Boring				TD = 13 ft.
14					
15					
16					
17					
18					
19					
20					

2of

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HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-24
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3

3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:
	9. SURFACE ELEVATION:
	10. DATE STARTED: 1/25/08 11. DATE COMPLETED: 1/25/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 11.0 ft BGS
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A
14. TOTAL DEPTH OF HOLE: 14.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED: N/A	UNDISTURBED: N/A	19. TOTAL NUMBER OF CORE BOXES: N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %
23. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	22. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS SCALE:

See page 3, this logbook, for location sketch.

QA CHECK BY: _____ (Signature and Date)

well atmosphere, soil core, breathing zone, venting compressed air, etc.)

HTRW DRILLING LOG

HOLE NUMBER D-DB-24 46

PROJECT: Fort Stewart/Hunter | INSPECTOR Timothy Coffey | SHEET 2 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
1	Concrete	N/A	N/A	N/A	
2	Dk gray-black silty sand: moist to dry, F-grnd.				Run #1: 1.3-4 ft D: 2.7 ft R: 2.3 ft
3	Gray-brown silty sand: dry, F-grnd, gen. massive, rel. packed.	657 ppm		N/A	
4	No Recovery.	N/A		N/A	
5	Red-yellow to dark red-yellow silty sand: dry, massive/uniform (overall darkening w/depth), F-grnd, rel. packed.	364 ppm	N/A	N/A	Run #2 4-8 ft D: 4 ft R: 3.3 ft
6				1132	
7		1564 ppm		N/A	
8	No Recovery	N/A		N/A	
9	Red-yellow silty sand (As Above)	2934 ppm		1138 AKZ419	Run #3 8-12 ft D: 4 ft R: 3.5 ft
	Dk reddish brn sandy silt: dry, v. F-grnd.				
10	Lt. greenish gray clay: moist, stiff, sl. plastic.	N/A		N/A	

HTRW DRILLING LOG

HOLE NUMBER D-DB-47

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Collay

SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	11	Lt-green-gray clay (As Above)	N/A	AR2418	N/A	water at 11.4 ft BGS.
		Brn-gray sandy clay				
	12	No Recovery				
	13	No soil sampling	N/A		N/A	
	14					
		End of Boring				TD = 14 ft
	15					
	16					
	17					
	18					
	19					
	20					

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HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-25
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG	
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 1/25/08	11. DATE COMPLETED: 1/25/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 8.0 ft BGS	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 12.5 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED: N/A	UNDISTURBED: N/A	19. TOTAL NUMBER OF CORE BOXES: N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS — SCALE:

See page 3, this logbook, for location sketch.

(Signature and Date)

HTRW DRILLING LOG

PROJECT: Fort Stewart/Hunter | INSPECTOR Timothy Coffey | HOLE NUMBER D-DB-03 | SHEET 2 OF 3

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ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1	Concrete	N/A	N/A	N/A	
	2	Light brown silty sand: dry to moist, F-grnd, rel. loose,	13.3 ppm	↑	1346 AK2579	Run #1 1.4 - 4 ft D: 2.6 ft R: 2.4 ft
	3	DK red-brn sandy silt: dry, v. F grnd packed.				
	4	No Recovery	N/A		N/A	
	5	DK red-brn sandy silt (As Above) grades to: DK red-yellow silty sand: dry, F grnd massive.	0.0 ppm	N/A	N/A	Run #2 4-8 ft D: 4 ft R: 3.5 ft
	6	grades to: Red-yellow silty sand: dry, F-grnd, massive, rel. loose,	0.0 ppm		1310 N/A	
	7					water at 8 ft
	8	No Recovery	N/A	↓	N/A	
	9	Red-yellow to dk red-yellow sand: wet, F- to m-grnd, massive.	N/A	AK2518	N/A	Run #3 8 - 12 ft D: 4 ft R: 3.5 ft
	10					

HTRW DRILLING LOG

HOLE NUMBER D-DB-554

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	11	Red-yellow to dk red-yellow sand. (As Above)	N/A	AK25518	N/A	
	12	No Recovery				
		No soil sampling	N/A		N/A	
	13	End of Boring				TD = 12.5 ft.
	14					
	15					
	16					
	17					
	18					
	19					
	20					

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HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-26
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG	
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 1/25/08	11. DATE COMPLETED: 1/25/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 10.3 ft BGS	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 14.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	~~DISTURBED~~ N/A	~~UNDISTURBED~~ N/A	19. TOTAL NUMBER OF CORE BOXES N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC BTEX	METALS Lead	OTHER (SPECIFY) PAH	OTHER (SPECIFY) —	OTHER (SPECIFY) —	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED X	MONITORING WELL —	OTHER (SPECIFY) —	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS

SCALE:

See page 3, this logbook, for location sketch.

(Signature and Date) etc.)

HTRW DRILLING LOG

PROJECT: Fort Stewart/Hunter | INSPECTOR: Timothy Coffey | HOLE NUMBER: B-DC28 | SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Asphalt	N/A	N/A	N/A	
	1	Concrete	N/A	N/A	N/A	
	2	Gray-black silty sand. Light brown silty sand: dry, F-grnd, gen. massive.	111 ppm		N/A	Run #1 1.2-4 ft D: 2.8 ft R: 2.3 ft
	3	DK yellow-brown silty sand: FeO stn.				
	4	No Recovery	N/A		N/A	
	5	DK yellow-brown silty sand (As Above)	9.5 ppm		N/A	Run #3 4-8 ft D: 4 ft R: 3.0 ft
			1421	N/A	1421	
	6		12.3 ppm		N/A	
	7	Lt gray to white sand: dry, loose, F-grnd, sugary.				
	8	No Recovery	N/A		N/A	
	9	Lt gray to white sand (As Above)	114 ppm		1425 AK2614	Run #3 8-12 ft D: 4 ft R: 3.1 ft
	10					

HTRW DRILLING LOG

HOLE NUMBER D-DB-26 01

PROJECT: Fort Stewart/Hunter | INSPECTOR Timothy Coffey | SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Brown-gray silty sand: wet, F-grnd, massive w/ mnr bedding planes.	114 ppm		1425 AKZ019	water at 14.3 ft BGS
	11	No Recovery	N/A	AKZ618	N/A	
	12	No soil sampling	N/A		N/A	
	13					
	14	End of Boring				TD = 14 ft
	15					
	16					
	17					
	18					
	19					
	20					

HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-27
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG	
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 1/26/08	11. DATE COMPLETED: 1/26/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 10.3 ft. BGS	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 14.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED: N/A	UNDISTURBED: N/A	19. TOTAL NUMBER OF CORE BOXES: N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS

SCALE:

See page 3, this logbook, for location sketch.

(Signature and Date) etc.)

HTRW DRILLING LOG

PROJECT: Fort Stewart/Hunter | INSPECTOR Timothy Coffey | HOLE NUMBER D-DB-27 | SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Asphalt	N/A	N/A	N/A	
	1	Concrete				1
		Dark gray silty sand: wet				Run #1
	2	Dark yellow-brown silty sand: Dry, F-grnd, gen. mass w/ faint, scatt'd bedding planes.	492 ppm		N/A	1.2-4 ft D: 2.8 ft R: 1.9 ft 2
	3					3
		No Recovery	N/A		N/A	
	4					4
		DK yellow-brn silty sand (As Above)	424 ppm		N/A	Run #2 4-8 ft D: 4 ft R: 2.8 ft
	5					5
		grades to: Pale yell-brn to Lt. gray silty sand: dry, F-grnd, gen. massive, rel. packed.	227 ppm	N/A	0822 N/A	
	6					6
	7	No Recovery	N/A		N/A	7
	8	As Above			0828	Run #3
		Lt. gray to white sand: dry to wet, F-grnd, sugary, massive/uniform, loose,	267 ppm		AK2719	8-12 ft D: 4 ft R: 3.0 ft Product odor
	9					9
	10					10

HTRW DRILLING LOG

HOLE NUMBER D-DB-27 68

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Lt. grey to white sand (As Above)	2670 ppm		AK2719	Water at 16.3 ft BGS.
	11	No Recovery	N/A	AK2718 (Regular) AK2714 (Duplicate)	N/A	
	12	No soil sampling	N/A		N/A	
	13					
	14	End of Boring				TD = 14 ft.
	15					
	16					
	17					
	18					
	19					
	20					

HTRW DRILLING LOG

HOLE NUMBER D-DB-28 4

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 2 OF 3

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS ... (G)
		Asphalt	N/A	N/A	N/A	
	1	Concrete				1
	2	Black silty sand. DK yellow-red sand: moist, F-grnd, mass. Grey-black silty sand: salt & pepper.	1400 ppm		N/A	Run #1 1.4-4 ft D: 2.6 ft R: 1.9 ft 2
	3	Lt. yellow-brn silty sand: dry, F-grnd, massive to bdd (faint).				3
	4	No Recovery	N/A		N/A	4
	5	Lt. yell-brn silty sand (As Above) Med. brown silty sand: dry, F-grnd, massive/uniform, rel. loose.	124 ppm	N/A	N/A	Run #2 4-8 ft D: 4 ft R: 3.3 ft 5
	6	DK red-brn sandy silt: dry, v. F-grnd, massive, rel. packed.	476 ppm		934 N/A	6
	7					7
	8	No Recovery	N/A		N/A	8
	9	Red-yellow silty sand: dry to wet, massive, F-grnd, rel. loose.	338 ppm		944 AK2819	Run #3 8-12 ft D: 4 ft R: 3.3 ft Product odor 9
	10					10

HTRW DRILLING LOG

HOLE NUMBER D-DB-08 5

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Red-yellow silty sand (As Above)	3380 ppm		4940	Water at 14.2 ft BGS.
	11	DK red-brown sandy silt; wet, packed.	N/A		N/A	11
		No Recovery		AK 8/8		
	12					12
		No soil Sampling ↓	N/A		N/A	
	13					13
	14					14
		End of Boring				TD = 14 ft.
	15					15
	16					16
	17					17
	18					18
	19					19
	20					20

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HTRW DRILLING LOG

1. COMPANY NAME: SAIC	DISTRICT: USACE Savannah	HOLE NUMBER D-DB-29
	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3

PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:
	9. SURFACE ELEVATION:
	10. DATE STARTED: 1/26/00 11. DATE COMPLETED: 1/26/00
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 10.0 ft BGS
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A
14. TOTAL DEPTH OF HOLE: 14.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	~~DISTURBED~~ N/A	UNDISTURBED N/A	19. TOTAL NUMBER OF CORE BOXES N/A				
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %	
	BTEX	Lead	PAH	—	—		
22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR: [signature]			
	X	—	—				

LOCATION SKETCH/COMMENTS SCALE:

See page 3, this logbook, for location sketch.

HTRW DRILLING LOG

HOLE NUMBER D-DB-29 11

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 2 OF 3

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1	Asphalt	N/A	N/A	N/A	
		Concrete				
	2	DK gray-black silty sand	487 ppm		N/A	Run #1 1.3-4 ft D: 2.7 ft R: 1.9 ft
		DK yellow-brn silty sand: dry to moist, F-grnd, massive.				
		Gray-black silty sand: dry, salt + pepper				
	3	Lt. gray sand: dry, F-grnd, loose.				
		Black sandy silt: packed.				
	4	No Recovery	N/A		N/A	
		DK brn sandy silt.	553 ppm		N/A	Run #2 4-8 ft D: 4 ft R: 3.0 ft
	5	Lt. gray to pale yellow-brn sand: dry, loose, F-grnd		N/A		
	6	DK yellow-brn silty sand: wet, rel. packed	274.0 ppm		1426 N/A	Perched water: 5.6-6.0 ft
		DK gray-black sandy silt, dry to moist, abund. organics.				
	7	DK red-brn sandy silt.				
	8	No Recovery	N/A		N/A	
	9	Dark red-brn sandy silt: dry to wet, v. F-grnd, massive/uniform, rel. packed	314.0 ppm		1030 AK2919	Run #3 8-12 ft D: 4 ft R: 3.4 ft
	10					water at 10 ft

HTRW DRILLING LOG

HOLE NUMBER D-DB-29 12

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

LEG (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Dk red-brn. sandy silt (As Above)				
	11	Dk red-yellow silty sand: wet, F-grned, massive.	N/A		N/A	
	12	No Recovery		AK2918		
	13	No soil sampling	N/A		N/A	
	14	End of Boring				TD = 14 ft.
	15					
	16					
	17					
	18					
	19					
	20					

HTRW DRILLING LOG	DISTRICT: USACE Savannah	HOLE NUMBER D-DB-30
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3

3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig; 2-in. diam. Macro-core barrels with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:
	9. SURFACE ELEVATION:
	10. DATE STARTED: 1/26/08 — 11. DATE COMPLETED: 1/26/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 9.4 ft BGS
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A
14. TOTAL DEPTH OF HOLE: 13.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED: N/A	UNDISTURBED: N/A	19. TOTAL NUMBER OF CORE BOXES: N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS — SCALE:

See page 3, this logbook, for location sketch.

HTRW DRILLING LOG

HOLE NUMBER D-DB-30 18

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 2 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
1	Asphalt Concrete	N/A	N/A	N/A	1
2	Gravel frags. Gray-black silty sand; salt + pepper Lt. gray sand; dry F-grnd, massive.	1254 ppm		N/A	Run #1 1.3 - 4 ft D: 2.7 ft R: 1.9 ft 2
3	Black to dk brn-gray silty sand; dry F-grnd, sl. color vars.				3
4	No Recovery	N/A		N/A	Run #2 4
5	Lt. gray to white sand; dry, F-grnd, mass/uniform, loose. Choc. brown silty sand; dry to moist, F-grnd, mottled (stirred)	619 ppm	N/A	N/A	4-8 ft D: 4 ft R: 3.1 ft 5
6	DK gray-brn to black sandy silt; dry to moist, v. F-grnd, massive, ret. packed.	3344 ppm		1134 N/A	6
7					7
8	No Recovery	N/A		N/A	8
9	DK red-brn sandy silt (As Above) Dark red-yellow silty sand; wet, F-grnd, gen. massive but mottled in places.	3834 ppm N/A	AK3918	1144 AK3919 N/A	Run #3 8 - 12 ft D: 4 ft R: 3.2 water at 9.4 ft BGS. 9
10					10

HTRW DRILLING LOG

HOLE NUMBER D-DB-30 19

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
11	DK red-yellow silty sand (As Above)	N/A	AR3018	N/A	
12	No Recovery				
13	No soil sampling	N/A		N/A	
	End of Boring				TD = 13 ft.

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HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-31
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3

3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400
7. SIZES AND TYPES OF DRILLING OR SAMPLING EQUIPMENT: Geoprobe 5400 truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:
	9. SURFACE ELEVATION:
	10. DATE STARTED: 1/26/08 — 11. DATE COMPLETED: 1/26/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 8.8 Ft BGS
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A
14. TOTAL DEPTH OF HOLE: 13.0 Ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	~~DISTURBED~~ N/A	~~UNDISTURBED~~ N/A	19. TOTAL NUMBER OF CORE BOXES N/A				
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %	
	BTEX	Lead	PAH	—	—		
22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR			
	X	—	—	[signature]			

LOCATION SKETCH/COMMENTS — SCALE:

See page 3, this logbook, for location sketch.

(Signature and Date)

HTRW DRILLING LOG

PROJECT: Fort Stewart/Hunter | INSPECTOR: Timothy Coffey | HOLE NUMBER D-DB-31 | SHEET 2 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	Asphalt	N/A	N/A	N/A	
1	Concrete				
	DK gray-brn silty sand.				Run #1
	DK gray silty sand: salt + pepper				1.3-4 ft
2	DK red-yellow sandy silt: dry, rel. packed	0.3 ppm		N/A	D: 2.7 ft
	Yellow-brown silty sand: dry, F-grnd, rel. loose.				R: 2.0 ft
3					
	No Recovery	N/A		N/A	
4					
	Yell-brn silty sand (As Above)	0.0 ppm	N/A	N/A	Run #2 4-8 ft D: 4 ft R: 3.2 ft
5	DK yellow-brn silty sand: moist, 'dirty'				
	Black clay silt: moist, vi F-grnd, non-plastic			1303	Perched water: 5.5-6.0 ft
6					
	DK red-brn sandy silt: dry, F-grnd, rel. packed, massive with some color variations.	0.0 ppm		N/A	
7					
	No Recovery	N/A		N/A	
8					
	DK red-brn sandy silt (As Above).	0.0 ppm		1310 AK3119	Run #3 8-12 ft D: 4 ft R: 3.5 ft
9					
		N/A	AK3118	N/A	water at 8.8 ft BGS.
10	See below				

HTRW DRILLING LOG

HOLE NUMBER D-DB-31.26

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Colley

SHEET 3 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
11	Red-yellow sand: wet, massive/ uniform, F-grnd.	N/A	AA3110	N/A	
12	No Recovery				
13	No soil sampling	N/A		N/A	
	End of Boring				TD = 13 ft.
14					
15					
16					
17					
18					
19					
20					

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HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-32
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG	
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig; 2-in. diam. Macro-core barrel, with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 1/27/08	11. DATE COMPLETED: 1/27/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 10.2 Ft BGS	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 14.0 Ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	~~DISTURBED~~ N/A	~~UNDISTURBED~~ N/A	19. TOTAL NUMBER OF CORE BOXES N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	BTEX	Lead	PAH	—	—	
22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		
	X	—	—	[signature]		

LOCATION SKETCH/COMMENTS — SCALE:

See page 3, this logbook, for location sketch.

Well diagrams, soil logs, drilling notes, survey coordinates, etc.)

(Signature and Date)

HTRW DRILLING LOG

HOLE NUMBER D-DB-32 46

PROJECT: Fort Stewart/Hunter | INSPECTOR Timothy Coffey | SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Asphalt	N/A	N/A	N/A	
	1	Concrete				1
		DK gray-black silty sand,				Run #1
	2	Pale yellow-brown silty sand: dry to moist, F-grnd, rel. loose, massive/uniform	18E ppm		N/A	1.2-4 ft D: 2.8 ft R: 2.0 ft 2
	3					3
		No Recovery	N/A		N/A	
	4					4
		Pale yellow-brown silty sand (As Above) to:	10T ppm		N/A	Run #2 4-8 ft D: 4 ft R: 3.0 ft
	5					5
		white to lt. gray sand: dry, F-grnd, massive/uniform, loose,		N/A	0815	
	6					6
		Gray-brown clay silty sand: dry to moist, F-grnd, massive,	1920 ppm		N/A	
	7					7
		No Recovery	N/A		N/A	
	8					8
		Gray-brown sandy clay: moist, med. plastic, sl. brittle, rel. stiff	3390 ppm		0824 AA3210	Run #3 8-12 ft D: 4 ft R: 3.7 ft
	9					9
	10	See Below.	A-97			10

HTRW DRILLING LOG

HOLE NUMBER D-DB-33 47

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	11	White to Pale yell-brn sand: wet, F-grnd, massive/uniform, sugary	9394 ppm N/A		0824 N/A	Water at 16.2 ft BGS.
	12	No Recovery				
	13	No soil sampling	N/A	AK3218 (Reg) AK3214 (Dupl.)	N/A	
	14	End of Boring				TD= 14 ft
	15					
	16					
	17					
	18					
	19					
	20					

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HTRW DRILLING LOG	DISTRICT: USACE Savannah	HOLE NUMBER D-DB-33
COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3

3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 truck-mounted DPT rig; 2-in. diam. macro-core barrel with Acetate liners; 1-in. diam. screened water sampler	8. HOLE LOCATION:
	9. SURFACE ELEVATION:
	10. DATE STARTED: 1/27/08 · 11. DATE COMPLETED: 1/27/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 10.2 ft BGS
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A
14. TOTAL DEPTH OF HOLE: 14.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED: N/A	UNDISTURBED: N/A	19. TOTAL NUMBER OF CORE BOXES: N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS

SCALE:

See page 3, this logbook, for location sketch.

HTRW DRILLING LOG

HOLE NUMBER DDB-553

PROJECT: Fort Stewart/Hunter | INSPECTOR Timothy Coffey | SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1	Asphalt Concrete	N/A	N/A	N/A	
	2	Black silt: wet DK yell-org sand: moist, F-grnd, Gray-blk silty sand: salt + pepper	564 ppm		N/A	Run #1 1.2-4 ft D: 2.8 ft R: 1.8 ft
	3	Yellow-brn silty sand: dry, F-grnd, massive/uniform.				
	4	No Recovery	N/A		N/A	
	5	As Above Lt. brown silty sand: dry, F-grnd, some FeO staining near top.	212 ppm		N/A	Run #2 4-8 ft D: 4 ft R: 2.8 ft
	6	Lt. red sand: dry, mottled, F-grnd, rel. loose, Red-black sandy silt: dry, v. F-grnd, packed.	2554 ppm	N/A	0917 AK3319	
	7	No Recovery	N/A		N/A	
	8	Gray-brown sandy clay: dry, brittle, crumbly, non-plast.	2414 ppm		0938	Run #3 8-12 ft D: 4 ft R: 3.4 ft Product odor
	9	DK yell-brown silty sand: Dry, v. F-grnd, rel. loose, mottled, FeO stain.			N/A	
	10					

HTRW DRILLING LOG

HOLE NUMBER D-DB-33 5-4

SUBJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	As Above	2414 ppm		N/A	Water at 16.2 ft BGS
11	Lt. brown/gray sand; wet, F to medial, thin w/R bedding planes, sugary.	N/A		N/A	
12	No Recovery		AK3318		
13	No soil ~~Re~~ Sampling	N/A		N/A	
14					
	End of Boring				TD = 14 ft.
15					
16					
17					
18					
19					
20					

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HTRW DRILLING LOG	DISTRICT: USACE Savannah	HOLE NUMBER A-DB-34
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3

3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:
	9. SURFACE ELEVATION:
	10. DATE STARTED: 1/27/00 — 11. DATE COMPLETED: 1/27/00
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 10.5 ft BGS
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A
14. TOTAL DEPTH OF HOLE: 14.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED: N/A	UNDISTURBED: N/A	19. TOTAL NUMBER OF CORE BOXES: N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	BTEX	Lead	PAH	—	—	
22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		
	X	—	—	[signature]		

LOCATION SKETCH/COMMENTS — SCALE:

See page 3, this logbook, for location sketch.

HTRW DRILLING LOG

HOLE NUMBER D-DB-34 6Ø

PROJECT: Fort Stewart/Hunter | INSPECTOR Timothy Coffey | SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Asphalt	N/A	N/A	N/A	
	1	Concrete				1
		Black silty sand: moist, F-grnd.				Run #1 1.3-4 ft D: 2.7 ft R: 2.Ø ft
	2	Red-yellow silty sand: dry, F-grnd, massive/uniform.	541 ppm		N/A	2
	3	Gray-black silty sand; dry, F grnd, salt+pepper				3
		Brown silty sand:				
		No Recovery	N/A		N/A	
	4					4
		Brown silty sand: dry, massive, F grnd.	494 ppm		N/A	Run #2 4-8 ft D: 4 ft R: 3.1 ft
	5	Lt. gray to white sand: Dry, F-grnd, rel. loose, massive/uniform.		N/A		5
	6				1Ø32	6
		DK red-brn sandy silt: dry, V. F grnd, some clay; sl. plast.	3340 ppm		AK3419	Soil has an odor, but is hard to describe.
	7					7
		No Recovery	N/A		N/A	
	8					8
		DK red-brn sandy silt (As Above)			1Ø36	Run #3 8-12 ft D: 4 ft R: 3.4 ft
	9	Gray-brown sandy clay: dry to moist to wet, crumbly, non- to sl. plast.	1734 ppm		N/A	9
	10					1Ø

HTRW DRILLING LOG

HOLE NUMBER D-DB-34 61

PROJECT: Fort Stewart/Hunter | INSPECTOR Timothy Coffey | SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Gray-brown sandy clay	1734 ppm		1436 N/A	water at 10.5 ft BGS.
	11	(As Above)				11
		Lt. gray sand; wet, F. to med-grnd.	N/A		N/A	
	12	No Recovery				12
	13	No soil sampling	N/A	AR34180	N/A	13
	14	End of Boring				TD = 14 ft. 14
	15					15
	16					16
	17					17
	18					18
	19					19
	20					20

HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-35
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG	
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 1/27/08	11. DATE COMPLETED: 1/27/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 9.5 ft BGS	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 13.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED: N/A	UNDISTURBED: N/A	19. TOTAL NUMBER OF CORE BOXES: N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS

SCALE:

See page 3, this logbook, for location sketch.

(Signature and Date)

HTRW DRILLING LOG

PROJECT: Fort Stewart/Hunter | INSPECTOR: Timothy Colley | HOLE NUMBER: D-DB-35 | SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Asphalt	N/A	N/A	N/A	
	1	Concrete				
	2	DK gray-brown silty sand: moist, F-grnd; mottled.				Run #1 13-4 Rt D: 2.7 Ft R: 2.0 Ft
		Yellow-brown silty sand: dry to moist, gen. massive, F-grnd.	2320 ppm		N/A	
	3	Gray-Blk silty sand: salt + pepper.				
		No Recovery	N/A		N/A	
	4	Lt gray sand: dry, F-grnd, loose.				Run #2 4-8 Ft D: 4 Ft R: 3.0 Ft
		Black to dark brn to dk yell-brn silty sand: dry to moist, F-grnd, mottled, turbated, "dirty"; mnr clay near bottom.	926 ppm	N/A	N/A	
	5					
	6		2320 ppm		1254 AK3519	Sewage-like odor.
	7	Black sandy silt: dry, v. F-grnd.				
		No Recovery	N/A		N/A	
	8					Run #3 8-12 Ft D: 4 Ft R: 3.2 Ft
		Black sandy silt (As Above)	1180 ppm		1301 N/A	
	9					water at 9.5 Ft BGS
			N/A	AK3518	N/A	
	10					

HTRW DRILLING LOG

HOLE NUMBER D-DB-35 68

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	~~GEOTECH~~ SAMPLE OR CORE BOX	~~ANALYTICAL~~ SAMPLE NO. (F)	REMARKS (G)
	11	Dark red-yellow silty sand! wet, F-grnd, massive/ uniform.	N/A	AR3518	N/A	
	12	No Recovery				
	13	No soil sampling	N/A		N/A	
		End of Boring				TD = 13 ft.
	14					
	15					
	16					
	17					
	18					
	19					
	20					

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KTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-36
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3

3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400
7. SIZE AND TYPES OF DRILLING & SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:
	9. SURFACE ELEVATION:
	10. DATE STARTED: 1/26/00 11. DATE COMPLETED: 1/26/00
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 9.1 ft BGS.
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A
14. TOTAL DEPTH OF HOLE: 13.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED: N/A	UNDISTURBED: N/A	19. TOTAL NUMBER OF CORE BOXES: N/A				
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %	
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	23. SIGNATURE OF INSPECTOR: [signature]			

LOCATION SKETCH/COMMENTS SCALE:

See page 3, this logbook, for location sketch.

HTRW DRILLING LOG

HOLE NUMBER D-DB-36 34

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 2 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	Asphalt	N/A	N/A	N/A	
1	Concrete				1
2	Dk gray-brown silty sand: moist, F-grnd, bld to mottled,	653 ppm		N/A	Run #1 1.2-4 ft D: 2.8 ft R: 1.9 ft 2
3	Black silty sand: S+P. Lt. gray to white sand: dry, F-grnd, massive/uniform				3
4	No Recovery	N/A		N/A	4
5	Dark gray-brn to black sandy silt: dry, rel. loose, V. F-grnd.	624 ppm	N/A	N/A	Run #2 4-8 ft D: 4 ft R: 3.1 ft 5
6	Lt. brown silty sand: dry, F-grnd, massive (a few scatt'd bedding plns/mottling).	374 ppm		1456 AK3619	6 Product odor
7	Black to red-blk sandy silt: dry, to moist, rel. packd rare to mnr clay				Perched water? 7
8	No Recovery	N/A		N/A	8
9	Dk red-brn. sandy silt (As Above)	297 ppm		1546 N/A	Run #3 8-12 ft D: 4 ft R: 3.1 ft 9
10	grades to: Dk red-yellow silty sand.	N/A	AK3618	N/A	water at 9.1 ft 10

HTRW DRILLING LOG

HOLE NUMBER D-DB-36 40

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
11	D.K red-yellow silty sand, wet, F-grnd, massive/uniform, well pkd.	N/A	AK3618	N/A	
12	No Recovery				
13	No soil sampling	N/A		N/A	
	End of Boring				T.D = 13 ft
14					
15					
16					
17					
18					
19					
20					

HTRW DRILLING LOG	DISTRICT: USACE Savannah	HOLE NUMBER D-DB-37
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3

3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig, 2-in. diam. Macro-core barrel with Acetate liners, 1-in. diam. screened water sampler.	8. HOLE LOCATION:
	9. SURFACE ELEVATION:
	10. DATE STARTED: 1/26/08 11. DATE COMPLETED: 1/26/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 8.0 Ft BGS
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A
14. TOTAL DEPTH OF HOLE: 12.5 Ft BGS	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	~~DISTURBED~~ N/A	UNDISTURBED N/A	19. TOTAL NUMBER OF CORE BOXES N/A				
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC BTEX	METALS Lead	OTHER (SPECIFY) PAH	OTHER (SPECIFY) —	OTHER (SPECIFY) —	21. TOTAL CORE RECOVERY %	
22. DISPOSITION OF HOLE	BACKFILLED X	MONITORING WELL —	OTHER (SPECIFY) —	23. SIGNATURE OF INSPECTOR			

LOCATION SKETCH/COMMENTS SCALE:

See page 3, this logbook, for location sketch.

HTRW DRILLING LOG

HOLE NUMBER D-DB-37 30

PROJECT: Fort Stewart/Hunter | INSPECTOR Timothy Coffey | SHEET 2 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	Asphalt	N/A	N/A	N/A	
1	Concrete				Run #1
2	DK gray-black silty sand: dry, rel. packed.	0.0 ppm		N/A	1.4-4 ft D: 2.6 ft R: 2.1 ft
	Lt. gray to white sand: dry, loose.				
	Red-black sandy silt.				
3	DK yellow-brown silty sand: dry, F-grnd, massive, rel. packed.				
4	No Recovery	N/A		N/A	
	Pale yell-brn silty sand (As Above)	0.0 ppm	N/A	N/A	Run #2 4-8 ft D: 4 ft R: 3.4 ft
5	Choc. brown silty sand: moist, F-grnd. Becomes darker w/depth				
6		0.0 ppm		1357 AK3719 (Req) AK3713 (Dup)	
7	Red-black to black sandy silt: dry to moist, v. F-grnd, rel. packed, weed fragments.				water at 6.0 ft BGS.
8	No Recovery	N/A		N/A	Run #3
9	Red-black sandy silt (As Above) grades to:	N/A	AK3718	N/A	8-12 ft D: 4 ft R: 3.6 ft
10	DK red-brn silty sand: wet, F-grnd, massive/uniform.				

HTRW DRILLING LOG

HOLE NUMBER D-DB-33

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
11	DK red-brn silty sand (As Above)	N/A	AR3718	N/A	
12	No Recovery				
	No soil sampling	N/A		N/A	
13	End of Boring				TD = 12.5 ft
14					
15					
16					
17					
18					
19					
20					

TRW DRILLING LOG	DISTRICT: USACE Savannah	HOLE NUMBER D-DB-38
COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3

PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG
NAME OF DRILLER: Bobby Lewis	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400
TYPES AND TYPES OF DRILLING & SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:
	9. SURFACE ELEVATION:
	10. DATE STARTED: 1/16/08 11. DATE COMPLETED: 1/16/08
OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 9.0 ft BGS
DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A
TOTAL DEPTH OF HOLE: 13.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

GEOTECHNICAL SAMPLES	~~DISTURBED~~ N/A	~~UNDISTURBED~~ N/A	19. TOTAL NUMBER OF CORE BOXES N/A			
SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %
DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS SCALE:

See page 3, this logbook, for location sketch

etc.)

(Signature and Date)

HTRW DRILLING LOG

PROJECT: Fort Stewart/Hunter | INSPECTOR Timothy Coffey | HOLE NUMBER D-DB-38 | SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Concrete	N/A	N/A	N/A	
	1	Dk gray-brn silty sand; dry, mottled, F-grnd.				Run #1 0.6-4 ft D: 3.4 ft R: 2.7 ft
	2	P. yellow-brn to Lt. brn sand; Dry, F-grnd, massive.	13.4 ppm		N/A	
	3					
		No Recovery	N/A		N/A	
	4	Lt. brown sand (As Above)			1234	Run #2 4-8 ft D: 4 ft R: 2.6 ft
	5	~~Lt. brown sand~~ Yellow-red sandy clay: moist, sl. plast.	81.1 ppm	N/A	N/A	
	6	Lt. green-gray clay sand: dry, non-plastic, rel. loose.				
	7	No Recovery	N/A		N/A	
	8	Lt. gray to white sand: Dry to wet, F- to m-grnd, massive, sl. gary.	122 ppm		1237 AK3819	Run #3 8-12 ft D: 4 ft. R: 2.8 ft water at 9 ft
	9		N/A	AK3818	N/A	
	10					

HTRW DRILLING LOG

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

HOLE NUMBER D-DB-38 5

SHEET 3 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	white to lt gray sand (As Above)				
11	No Recovery	N/A	AK3818	N/A	
12	No soil ~~drilling~~ sampling	N/A		N/A	
13	End of Boring				TD = 13 ft
14					
15					
16					
17					
18					
19					
20					

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HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-39
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG	
5. NAME OF DRILLER: Bobby Lewis	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 1/16/08	11. DATE COMPLETED: 1/16/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 9.5 ft BGS	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 13.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	~~DISTURBED~~ N/A	~~UNDISTURBED~~ N/A	19. TOTAL NUMBER OF CORE BOXES N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS

SCALE:

See page 3, this logbook, for location sketch.

Well atmosphere, soil cover, drilling fluid, venting conditions, air, etc.)

(Signature and Date)

HTRW DRILLING LOG

PROJECT: Fort Stewart/Hunter | INSPECTOR: Timothy Coffey | HOLE NUMBER D-DB-39 | SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Concrete	N/A	N/A	N/A	
	1	Brown sand: dry to moist, massive w/ rare black specks, F-grnd.	679 ppm		N/A	Run #2 0.6 - 4 ft D: 3.4 ft R: 2.6 ft
	2	Black silty sand.				
	3	Brn-gray sand: dry, F-grnd, massive/uniform.				
	4	No Recovery	N/A		N/A	
	5	Brn-gray sand (As Above)	746 ppm	N/A	1320 N/A	Run #2 4 - 8 ft D: 4 ft R: 3.0 ft
	6	Black to dk gray-brn silty sand: moist, "dirty", bdd (faint).	2970 ppm		1322 N/A	
	7	Med. dk gray clay: hard				
	8	No Recovery	N/A		N/A	
		Med dk gray clay				strong prod. odor.
	9	Brn-gray silty sand: dry, F-grnd, massive.	3040 ppm		1327 AK3919	Run #3 8 - 12 ft D: 4 ft R: 2.9 ft
	10	white to light gray sand: wet, F- to m-grnd.	N/A	AK3918	N/A	water at 9.5 ft BGS

HTRW DRILLING LOG

HOLE NUMBER DDB-39 61

PROJECT: Fort Stewart/Hunter | INSPECTOR Timothy Coffey | SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		White to lt gray Sand (As Above)				Strong product odor.
	11	No Recovery	N/A	AK3918	N/A	
	12	No soil ~~drilling~~ TRC Sampling	N/A		N/A	
	13	End of Boring				TD = 13 ft
	14					
	15					
	16					
	17					
	18					
	19					
	20					

HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-40
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG	
5. NAME OF DRILLER: Bobby Lewis/Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 1/16/08	11. DATE COMPLETED: 1/23/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 9.1 ft BGS	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 13.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	BTEX	Lead	PAH	—	—	
22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		
	X	—	—	[signature]		

LOCATION SKETCH/COMMENTS

SCALE:

See page 3, this logbook, for location sketch.

(Signature and Date) etc.)

HTRW DRILLING LOG

HOLE NUMBER D-DB-1 (67)

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 2 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	~~GEOTECH~~ SAMPLE OR CORE BOX	~~ANALYTICAL~~ SAMPLE NO. (F)	REMARKS (G)
		Asphalt (coarse grvl base)	N/A	N/A	N/A	
	1	Black silty grvl sand: dry, rel. packed				Run #1 0.5-4 ft D: 3.5 ft R: 2.8 ft
	2	Yellow-red silty sand: moist, F-grnd, gen. mass w/ subtle color variations, rel. packed.	207 ppm		N/A	urea odor
	3		569 ppm		N/A	
		Black silty sand.				
	4	No Recovery	N/A		N/A	
	5	Black silty sand: dry, F-grnd, rel. packed. grades to Lt. brown sand: dry, F-grnd, rel. packed,	602 ppm	N/A	1559 N/A	Run #2 4-8 ft D: 4 ft R: 3.2 ft
	6	grades to: Dark brown to dk gray-brn silty sand: Dry, F-grnd, rel. packed, "dirty".	746 ppm		1600 N/A	
	7					
	8	No Recovery	N/A		N/A	
	9	Black sandy silt: Dry, v. F-grnd, packed, mass/uniform.	2811 ppm		1603 AK4019	Run #3 8-12 ft D: 4 ft R: 3.5 ft
		Brown silty sand.	N/A	AK4018	N/A	water at 9.1 ft BGS.
	10	Lt-green-gray clay see below				

HTRW DRILLING LOG

HOLE NUMBER D-DB-40 68

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	11	Lt. green-gray clay: moist, stiff, sl. plastic. grades to: Lt. gray-brn sandy clay.	N/A	AK40618	N/A	
	12	No Recovery				
	13	No soil Sampling	N/A		N/A	
		End of Boring				TD = 13 ft.
	14					
	15					
	16					
	17					
	18					
	19					
	20					

HTRW DRILLING LOG

HOLE NUMBER D-DB-41 4

PROJECT: Fort Stewart/Hunter | INSPECTOR Timothy Coffey | SHEET 2 OF 3

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		DK gray-black silty sand! moist, F-grnd, massive, organics.	3.2 ppm		N/A	Run #1 ϕ-4 ft D: 4 ft R: 2.9 ft
	1	Yellow-brown silty sand! dry to moist, F-grnd, rel. loose, massive/uniform				
	2		2.9 ppm		N/A	
		Gray-brn sand: wet.				
	3	No Recovery	N/A	N/A	N/A	
	4					Run #2 4-8 ft D: 4 ft R: 2.2 ft
	5	Black to gray-blk, sandy silt! moist, V. F-grnd, poss. inor to none clay, non-plastic, bdd (varved), "dirty."	24.34 ppm		1346 AK4119	
	6					
	7	No Recovery	N/A		N/A	water at 8.4 ft BGS.
	8					Run #3 8-12 ft D: 4 ft R: 3.3 ft
	9	Dark brown sandy silt! wet, V-F-grd, massive/uniform.	N/A	AK4118	N/A	
	10					

HTRW DRILLING LOG

HOLE NUMBER D-DB-#5

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Colley

SHEET 3 OF 3

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		DK brown sandy silt (As Above).	N/A	AK24118	N/A	
	11	DK red-yellow sand! wet, F to m-grnd.				
		No Recovery	N/A		N/A	
	12	No Soil sampling	N/A		N/A	
		End of Boring				TD = 12.5 ft
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					

16

HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-42
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG	
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig; 2-in. diam. Macrocore barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 1/27/08	11. DATE COMPLETED: 1/27/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 6.4 ft BGS	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 11.5 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	~~DISTURBED~~ N/A	~~UNDISTURBED~~ N/A	19. TOTAL NUMBER OF CORE BOXES N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS

SCALE:

See page 3, this logbook, for location sketch.

QA CHECK BY: _____ (Signature and Date)

Well, piezometer, etc.)

HTRW DRILLING LOG

PROJECT: Fort Stewart/Hunter	INSPECTOR Timothy Coffey	HOLE NUMBER D-DB-42 11
		SHEET 2 OF 3

(A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1	DK gray-brown silty sand: dry to moist, massive, F-grnd; organics.	12.7 ppm	N/A	N/A	Run #1 0-4 ft D: 4 ft R: 3.0 ft
	2	Gray-black silty sand: dry, salt + pepper	11.9 ppm		N/A	
	3	Black to dark brown silty sand: dry, F-grnd, mass w/ color var.				
	4	No Recovery	N/A		N/A	
	5	As above	21.24 ppm		1437	Run #2 4-8 ft D: 4 ft R: 3.2 ft
	6	Lt. brown sand: dry to moist, mass/ uniform, F-grnd.			AK4219	Foul odor (rotten)
	7	Black to black-brown sandy silt: dry to moist, to wet, v. F-grnd, non-plastic, soft (mushy).				water at 6.4 ft BGS.
	8	No Recovery	N/A		N/A	
	9	Dark red-brown silty sand: wet, F- to m-grnd, massive, rel. packed.	N/A	AK4218	N/A	Run #3 8-11 ft D: 3 ft R: 3.7 ft
	10					

HTRW DRILLING LOG

HOLE NUMBER D-DB3 #12

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Dk red-brn silty sand (As above)	N/A	AH4210	N/A	
		Lt green-gray clay				
	11	No Recovery		N/A		
		No Soil Sampling	N/A		N/A	
	12	End of Boring				TD = 11.5 ft
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					

17

HTRW DRILLING LOG

1. COMPANY NAME: SAIC	DISTRICT: USACE Savannah	HOLE NUMBER D-DB-43
	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3

3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:
	9. SURFACE ELEVATION:
	10. DATE STARTED: 1/28/08 — 11. DATE COMPLETED: 1/28/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 8.0 Ft BGS
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A
14. TOTAL DEPTH OF HOLE: 12.5 Ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	~~DISTURBED~~ N/A	UNDISTURBED N/A	19. TOTAL NUMBER OF CORE BOXES N/A				
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC BTEX	METALS Lead	OTHER (SPECIFY) PAH	OTHER (SPECIFY) —	OTHER (SPECIFY) —	21. TOTAL CORE RECOVERY %	
22. DISPOSITION OF HOLE	BACKFILLED X	MONITORING WELL —	OTHER (SPECIFY) —	23. SIGNATURE OF INSPECTOR [signature]			

LOCATION SKETCH/COMMENTS — SCALE:

See page 3, this logbook, for location sketch.

QA CHECK BY: _____ (Signature and Date)

HTRW DRILLING LOG

HOLE NUMBER D-DB-43 18

PROJECT: Fort Stewart/Hunter | INSPECTOR Timothy Coffey | SHEET 2 OF 3

(A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Asphalt	N/A	N/A	N/A	
	1	Black tar-sand Yellow-brn silty sand: dry, F-grnd, massive/uniform.	0.0 ppm		N/A	Run #1 0.6 - 4 ft D: 3.4 ft R: 2.7 ft
	2					
	3	Gray-black silty sand: dry, F-grnd, salt + pepper. DK gray-brn silty sand.				
	4	No Recovery	N/A		N/A	
	5	Brown silty sand: dry, F-grnd. Lt. gray to white sand: dry, F-grnd, rel. loose, massive/uniform.	0.0 ppm	N/A	N/A	Run # 2 4-8 ft D: 4 ft R: 3.4 ft
	6	Dark brown silty sand: dry to moist, F-grnd, non-plastic,	0.0 ppm		0&05 AK4319	
	7					
	8	No Recovery	N/A		N/A	water at 8 ft BGS Run #3 8-12 ft D: 4 ft R: 3.4 ft
	9	Dark brown to black sandy silt: wet, v. F-grnd, rel. loose; soft (spongey).	N/A	AK4318	N/A	
	10					

HTRW DRILLING LOG

HOLE NUMBER D-DB-43 9

SHEET 3 OF 3

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	DK. brn to black sandy silt. (As Above)				
11	Lt. green gray clay; moist; plastic; stiff.	N/A	AR43190	N/A	
	No Recovery				
12	No Soil Sampling	N/A		N/A	
	End of Boring				TD = 12.5 ft
13					
14					
15					
16					
17					
18					
19					
20					

HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-44
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG	
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 5400 truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. Screened water sampler.	8. HOLE LOCATION:	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 1/28/08	11. DATE COMPLETED: 1/28/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 6.3 ft BGS	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 11.5 ft BGS	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED: N/A	UNDISTURBED: N/A	19. TOTAL NUMBER OF CORE BOXES: N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS

SCALE:

See page 3, this logbook, for location sketch.

QA CHECK BY: _____ (Signature and Date)

HTRW DRILLING LOG

PROJECT: Fort Stewart/Hunter | INSPECTOR: Timothy Coffey | SHEET 2 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	Concrete	N/A	N/A	N/A	
1	Predom. dk yell-brown silty sand: dry to moist, F-grnd, has numerous black silty zones,	0.0 ppm		N/A	Run #1 0.7-4 ft D: 3.3 ft R: 2.9 ft
2		0.0 ppm		N/A	
3			N/A		
	Black sandy silt.				
	No Recovery	N/A		N/A	Run #2 4-8 ft D: 4 ft R: 3.4 ft
4	Black sandy silt.			0912	
5	Lt. brn to dark brown silty sand: dry to moist, F-grnd, rel. loose.	0.0 ppm		AK4419	
6	DK brn-black sandy silt				water at 6.3 ft BGS.
	Brown sandy clay.				
7	DK brn clay sand: wet, sl. to non-plast.	N/A		N/A	
	No Recovery				
8					Run #3 8-11 ft D: 3 ft R: 2.5 ft
	DK brn sandy silt: wet, v. F-grnd.		AK4418		
9	DK red-brn silty sand: wet, F-grnd, rel. loose, massive.	N/A		N/A	
	Lt. green gray clay				
10					

HTRW DRILLING LOG

HOLE NUMBER D-DB-44 2e

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 3 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	clay, dry to moist, sl. to non-plastic, very stiff, sl. crumbly	N/A	AKHHLB	N/A	
11	No Recovery		N/A		
	No soil Sampling	N/A		N/A	
12	End of Boring				TD = 11.5 ft
13					
14					
15					
16					
17					
18					
19					
20					

31

HTRW DRILLING LOG

DISTRICT: USACE Savannah		HOLE NUMBER D-DB-45
1. COMPANY NAME: SAIC	2. DRILL SUBCONTRACTOR: SAIC	SHEET 1 OF 3
3. PROJECT: Fort Stewart/Hunter	4. LOCATION: HAAF/DAACG	
5. NAME OF DRILLER: Chris Homer	6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 5400	
7. SIZE AND TYPES OF DRILLING & SAMPLING EQUIPMENT: Geoprobe 5400 Truck-mounted DPT rig; 2-in. diam. Macro-core barrel with Acetate liners; 1-in. diam. screened water sampler.	8. HOLE LOCATION:	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 1/28/08	11. DATE COMPLETED: 1/28/08
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: 8.8 Ft BGS	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 13.0 Ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED: N/A	UNDISTURBED: N/A	19. TOTAL NUMBER OF CORE BOXES: N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: BTEX	METALS: Lead	OTHER (SPECIFY): PAH	OTHER (SPECIFY): —	OTHER (SPECIFY): —	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED: X	MONITORING WELL: —	OTHER (SPECIFY): —	23. SIGNATURE OF INSPECTOR: [signature]		

LOCATION SKETCH/COMMENTS — SCALE:

See page 3, this logbook, for location sketch.

(Signature and Date)

HTRW DRILLING LOG

HOLE NUMBER D-DB-453 ?

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

SHEET 2 OF 3

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	Asphalt	N/A	N/A	N/A	
	Black Top-sand.				Run #1
1	Yellow-brn silty sand: dry, F-grnd, mottled to massive.	0.0 ppm		N/A	0.5-4 ft D: 3.5 ft R: 2.8 ft
2					2
		0.0 ppm		N/A	
3					3
	No Recovery	N/A		N/A	
4					4
	Yellow-brown silty Sand (As Above)				Run #2 4-8 ft D: 4 ft R: 3.2 ft
	Gray-black silty Sand: dry, stiff	0.0 ppm	N/A	N/A	
5	Med. gray sand: dry, F-grnd.				5
				1034	
6	DK brn to black silty sand: dry, F-grnd, multiple color variations.	0.3 ppm		N/A	6
7					7
	No Recovery	N/A		N/A	
8					8
	DK brn to black sandy silt: dry to wet, v. F-grnd, rel. soft (mushy).	0.3 ppm		1044 AK4519	Run #3 8-12 ft D: 4 ft R: 2.8
9					9
		N/A	AK4518	N/A	water at 8.8 ft BGS.
10					10

HTRW DRILLING LOG

HOLE NUMBER D-DB-5.33

SHEET 3 OF 3

PROJECT: Fort Stewart/Hunter

INSPECTOR Timothy Coffey

DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	DK brn to black sandy silt (As Above)				
	Lt green-gray clay! moist, stiff, plastic.	N/A	AK45518	N/A	
11	No Recovery				
12	No soil Sampling	N/A		N/A	
13	End of Boring				TD = 13 ft.
14					
15					
16					
17					
18					
19					
20					

ARCADIS

Appendix B

2008 Supplemental Investigation Lab Data – January 2008

IMA

Certificates of Analysis and Chain-of-Custody Forms for the 2008 Supplemental Site Investigation Data Package

3d Inf Div (Mech)

Former Pumphouse #1, Release #1
Facility ID #9-025085*1
Former Building 8060
Hunter Army Airfield, Georgia

Prepared for

U.S. ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

Contract No. DACA21-02-D-0004
Delivery Order 0066

August 2008

SAIC®
From Science to Solutions

08-070(E)/020909

PUMPHOUSE #1, RELEASE #1
DPT SUBSURFACE SOIL SAMPLING
JANUARY 2008

08-070(E)/020909

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour

Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID:	AK0119	Project:	SAIC007202
Sample ID:	201010001	Client ID:	SAIC072
Matrix:	Soil		
Collect Date:	15-JAN-08 12:03		
Receive Date:	16-JAN-08		
Collector:	Client		
Moisture:	10.7%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP											
3050S/6010 Lead Federal "Dry Weight Corrected"											
Lead	J	1090	278	1110	ug/kg	1	HSC	01/24/08	1542	719251	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
[illegible]loronaphthalene	U	ND	13.0	37.2	ug/kg	1	AGS1	01/18/08	2353	719185	2
[illegible]thylnaphthalene	U	ND	7.44	37.2	ug/kg	1					
Acenaphthene	U	ND	12.4	37.2	ug/kg	1					
Acenaphthylene	U	ND	11.2	37.2	ug/kg	1					
Anthracene	U	ND	7.44	37.2	ug/kg	1					
Benzo(a)anthracene	U	ND	11.2	37.2	ug/kg	1					
Benzo(a)pyrene	U	ND	11.2	37.2	ug/kg	1					
Benzo(b)fluoranthene	U	ND	11.2	37.2	ug/kg	1					
Benzo(ghi)perylene	U	ND	11.2	37.2	ug/kg	1					
Benzo(k)fluoranthene	U	ND	11.2	37.2	ug/kg	1					
Chrysene	U	ND	11.2	37.2	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	11.2	37.2	ug/kg	1					
Fluoranthene	U	ND	11.2	37.2	ug/kg	1					
Fluorene	U	ND	11.2	37.2	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	11.2	37.2	ug/kg	1					
Naphthalene	U	ND	11.2	37.2	ug/kg	1					
Phenanthrene	U	ND	11.2	37.2	ug/kg	1					
Pyrene	U	ND	11.7	37.2	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	0.362	1.10	ug/kg	1	ACJ	01/28/08	1845	721963	3
Ethylbenzene	U	ND	0.219	1.10	ug/kg	1					
Toluene	U	ND	0.318	1.10	ug/kg	1					
Xylenes (total)	J	0.566	0.219	1.10	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	846 3050BS PREP	FGA	01/23/08	1300	719250
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/18/08	1558	719184
SW846 5035	5035/8260B Prep	ACJ	01/15/08	0946	721962

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK0119
Sample ID: 201010001

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6010B	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1150 ug/kg	1860	62	(45%-101%)
benzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1390 ug/kg	1860	75	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1420 ug/kg	1860	76	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	28.5 ug/kg	40.0	65	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	37.4 ug/kg	40.0	85	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	39.3 ug/kg	40.0	89	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	44.6 ug/kg	40.0	102	(74%-126%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated

Certificate of Analysis

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

Contact: Leslie Barbour
Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Report Date: April 9, 2008

Client Sample ID: AK0119
Sample ID: 201010001

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also >70%
Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID:	AK0219	Project:	SAIC007202
Sample ID:	201010002	Client ID:	SAIC072
Matrix:	Soil		
Collect Date:	15-JAN-08 13:02		
Receive Date:	16-JAN-08		
Collector:	Client		
Moisture:	6.53%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP											
3050S/6010 Lead Federal "Dry Weight Corrected"											
Lead	J	987	258	1030	ug/kg	1	HSC	01/24/08	1623	719251	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
[illegible]loronaphthalene	U	ND	12.4	35.4	ug/kg	1	AGS1	01/19/08	0057	719185	2
[illegible]hylnaphthalene	U	ND	7.08	35.4	ug/kg	1					
[illegible]phthene	U	ND	11.8	35.4	ug/kg	1					
Acenaphthylene	U	ND	10.6	35.4	ug/kg	1					
Anthracene	U	ND	7.08	35.4	ug/kg	1					
Benzo(a)anthracene	U	ND	10.6	35.4	ug/kg	1					
Benzo(a)pyrene	J	13.0	10.6	35.4	ug/kg	1					
Benzo(b)fluoranthene	J	12.9	10.6	35.4	ug/kg	1					
Benzo(ghi)perylene	U	ND	10.6	35.4	ug/kg	1					
Benzo(k)fluoranthene	U	ND	10.6	35.4	ug/kg	1					
Chrysene	U	ND	10.6	35.4	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	10.6	35.4	ug/kg	1					
Fluoranthene	U	ND	10.6	35.4	ug/kg	1					
Fluorene	U	ND	10.6	35.4	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	10.6	35.4	ug/kg	1					
Naphthalene	U	ND	10.6	35.4	ug/kg	1					
Phenanthrene	U	ND	10.6	35.4	ug/kg	1					
Pyrene	U	ND	11.1	35.4	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	0.392	1.19	ug/kg	1	ACJ	01/28/08	1913	721963	3
Ethylbenzene	J	0.938	0.238	1.19	ug/kg	1					
Toluene	U	ND	0.345	1.19	ug/kg	1					
Xylenes (total)	J	0.865	0.238	1.19	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	846 3050BS PREP	FGA	01/23/08	1300	719250
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/18/08	1558	719184
SW846 5035	5035/8260B Prep	ACJ	01/15/08	0949	721962

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK0219
Sample ID: 201010002

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6010B	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1150 ug/kg	1770	65	(45%-101%)
ɔbenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1470 ug/kg	1770	83	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1400 ug/kg	1770	79	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	32.9 ug/kg	40.0	69	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	39.1 ug/kg	40.0	82	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	43.4 ug/kg	40.0	91	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	47.2 ug/kg	40.0	99	(74%-126%)

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

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< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID: AK0219
Sample ID: 201010002

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also >70%
Sample results are rejected
Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
U1 Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour

Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID:	AK0319	Project:	SAIC007202
Sample ID:	201010003	Client ID:	SAIC072
Matrix:	Soil		
Collect Date:	15-JAN-08 14:17		
Receive Date:	16-JAN-08		
Collector:	Client		
Moisture:	9.81%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP											
3050S/6010 Lead Federal "Dry Weight Corrected"											
Lead		5740	274	1100	ug/kg	1	HSC	01/24/08	1629	719251	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
[illegible]loronaphthalene	U	ND	12.8	36.6	ug/kg	1	AGS1	01/19/08	0118	719185	2
[illegible]thylnaphthalene	U	ND	7.32	36.6	ug/kg	1					
Acenaphthene	U	ND	12.2	36.6	ug/kg	1					
Acenaphthylene	U	ND	11.0	36.6	ug/kg	1					
Anthracene	U	ND	7.32	36.6	ug/kg	1					
Benzo(a)anthracene	U	ND	11.0	36.6	ug/kg	1					
Benzo(a)pyrene	U	ND	11.0	36.6	ug/kg	1					
Benzo(b)fluoranthene	U	ND	11.0	36.6	ug/kg	1					
Benzo(ghi)perylene	U	ND	11.0	36.6	ug/kg	1					
Benzo(k)fluoranthene	U	ND	11.0	36.6	ug/kg	1					
Chrysene	U	ND	11.0	36.6	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	11.0	36.6	ug/kg	1					
Fluoranthene	U	ND	11.0	36.6	ug/kg	1					
Fluorene	U	ND	11.0	36.6	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	11.0	36.6	ug/kg	1					
Naphthalene	U	ND	11.0	36.6	ug/kg	1					
Phenanthrene	U	ND	11.0	36.6	ug/kg	1					
Pyrene	U	ND	11.5	36.6	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	0.398	1.21	ug/kg	1	ACJ	01/28/08	1941	721963	3
Ethylbenzene	J	0.323	0.241	1.21	ug/kg	1					
Toluene	J	0.528	0.350	1.21	ug/kg	1					
Xylenes (total)		1.45	0.241	1.21	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	846 3050BS PREP	FGA	01/23/08	1300	719250
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/18/08	1558	719184
SW846 5035	5035/8260B Prep	ACJ	01/15/08	0952	721962

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID: AK0319
Sample ID: 201010003

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6010B	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1290 ug/kg	1830	71	(45%-101%)
›enzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1660 ug/kg	1830	91	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1340 ug/kg	1830	73	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	33.6 ug/kg	40.0	70	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	40.7 ug/kg	40.0	84	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	44.6 ug/kg	40.0	93	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	48.1 ug/kg	40.0	100	(74%-126%)

Notes:
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> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK0319
Sample ID: 201010003

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also >70%
Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour

Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID:	AK0419	Project:	SAIC007202
Sample ID:	201010004	Client ID:	SAIC072
Matrix:	Soil		
Collect Date:	15-JAN-08 15:27		
Receive Date:	16-JAN-08		
Collector:	Client		
Moisture:	7.55%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP											
3050S/6010 Lead Federal "Dry Weight Corrected"											
Lead		3620	266	1060	ug/kg	1	HSC	01/24/08	1635	719251	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
[illegible]loronaphthalene	U	ND	12.6	36.0	ug/kg	1	AGS1	01/19/08	0139	719185	2
[illegible]hylnaphthalene	U	ND	7.20	36.0	ug/kg	1					
[illegible]phthene	U	ND	12.0	36.0	ug/kg	1					
Acenaphthylene	U	ND	10.8	36.0	ug/kg	1					
Anthracene	U	ND	7.20	36.0	ug/kg	1					
Benzo(a)anthracene	U	ND	10.8	36.0	ug/kg	1					
Benzo(a)pyrene	U	ND	10.8	36.0	ug/kg	1					
Benzo(b)fluoranthene	U	ND	10.8	36.0	ug/kg	1					
Benzo(ghi)perylene	U	ND	10.8	36.0	ug/kg	1					
Benzo(k)fluoranthene	U	ND	10.8	36.0	ug/kg	1					
Chrysene	U	ND	10.8	36.0	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	10.8	36.0	ug/kg	1					
Fluoranthene	U	ND	10.8	36.0	ug/kg	1					
Fluorene	U	ND	10.8	36.0	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	10.8	36.0	ug/kg	1					
Naphthalene	U	ND	10.8	36.0	ug/kg	1					
Phenanthrene	U	ND	10.8	36.0	ug/kg	1					
Pyrene	U	ND	11.3	36.0	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	0.350	1.06	ug/kg	1	ACJ	01/28/08	2009	721963	3
Ethylbenzene		2.17	0.212	1.06	ug/kg	1					
Toluene	U	ND	0.308	1.06	ug/kg	1					
Xylenes (total)	J	0.302	0.212	1.06	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	846 3050BS PREP	FGA	01/23/08	1300	719250
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/18/08	1558	719184
SW846 5035	5035/8260B Prep	ACJ	01/15/08	0955	721962

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK0419
Sample ID: 201010004

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6010B	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1250 ug/kg	1800	70	(45%-101%)
ɔbenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1540 ug/kg	1800	85	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1440 ug/kg	1800	80	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	31.3 ug/kg	40.0	74	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	33.9 ug/kg	40.0	80	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	40.5 ug/kg	40.0	95	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	42.7 ug/kg	40.0	101	(74%-126%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID: AK0419
Sample ID: 201010004

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also >70%
Sample results are rejected
Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
U1 Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis

Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour

Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID: AK0519
Sample ID: 201086003
Matrix: Soil
Collect Date: 16-JAN-08 10:23
Receive Date: 17-JAN-08
Collector: Client
Moisture: 9.61%

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP											
3050S/6010 Lead Federal "Dry Weight Corrected"											
Lead		28500	271	1080	ug/kg	1	HSC	01/24/08	1654	719251	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
[illegible]loronaphthalene	U	ND	12.8	36.5	ug/kg	1	AGS1	01/19/08	0243	719185	2
[illegible]thylnaphthalene	J	13.4	7.30	36.5	ug/kg	1					
Acenaphthene	U	ND	12.2	36.5	ug/kg	1					
Acenaphthylene	U	ND	10.9	36.5	ug/kg	1					
Anthracene	U	ND	7.30	36.5	ug/kg	1					
Benzo(a)anthracene	U	ND	10.9	36.5	ug/kg	1					
Benzo(a)pyrene	U	ND	10.9	36.5	ug/kg	1					
Benzo(b)fluoranthene	U	ND	10.9	36.5	ug/kg	1					
Benzo(ghi)perylene	U	ND	10.9	36.5	ug/kg	1					
Benzo(k)fluoranthene	U	ND	10.9	36.5	ug/kg	1					
Chrysene	U	ND	10.9	36.5	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	10.9	36.5	ug/kg	1					
Fluoranthene	U	ND	10.9	36.5	ug/kg	1					
Fluorene	U	ND	10.9	36.5	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	10.9	36.5	ug/kg	1					
Naphthalene	U	ND	10.9	36.5	ug/kg	1					
Phenanthrene	U	ND	10.9	36.5	ug/kg	1					
Pyrene	U	ND	11.5	36.5	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	67.6	205	ug/kg	100	ACJ	01/28/08	1817	721963	3
Ethylbenzene		9690	41.0	205	ug/kg	100					
Toluene		973	59.4	205	ug/kg	100					
Xylenes (total)		24000	41.0	205	ug/kg	100					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	846 3050BS PREP	FGA	01/23/08	1300	719250
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/18/08	1558	719184
SW846 5035	5035/8260B Prep	ACJ	01/15/08	1215	721962

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK0519
Sample ID: 201086003

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6010B	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1390 ug/kg	1820	76	(45%-101%)
benzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1920 ug/kg	1820	105*	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1410 ug/kg	1820	77	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5980 ug/kg	25.0	117	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	6840 ug/kg	25.0	133*	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	6990 ug/kg	25.0	136*	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	7650 ug/kg	25.0	149*	(74%-126%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated

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Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID: AK0519
Sample ID: 201086003

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID:	AK0619	Project:	SAIC007202
Sample ID:	201086002	Client ID:	SAIC072
Matrix:	Soil		
Collect Date:	16-JAN-08 09:26		
Receive Date:	17-JAN-08		
Collector:	Client		
Moisture:	18.4%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP											
3050S/6010 Lead Federal "Dry Weight Corrected"											
Lead		25400	299	1200	ug/kg	1	HSC	01/24/08	1647	719251	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
2-Chloronaphthalene	U	ND	14.2	40.6	ug/kg	1	AGS1	01/19/08	0222	719185	2
2-Methylnaphthalene	J	21.1	8.13	40.6	ug/kg	1					
Acenaphthene	U	ND	13.6	40.6	ug/kg	1					
Acenaphthylene	U	ND	12.2	40.6	ug/kg	1					
Anthracene	U	ND	8.13	40.6	ug/kg	1					
Benzo(a)anthracene	U	ND	12.2	40.6	ug/kg	1					
Benzo(a)pyrene	U	ND	12.2	40.6	ug/kg	1					
Benzo(b)fluoranthene	U	ND	12.2	40.6	ug/kg	1					
Benzo(ghi)perylene	U	ND	12.2	40.6	ug/kg	1					
Benzo(k)fluoranthene	U	ND	12.2	40.6	ug/kg	1					
Chrysene	U	ND	12.2	40.6	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	12.2	40.6	ug/kg	1					
Fluoranthene	U	ND	12.2	40.6	ug/kg	1					
Fluorene	U	ND	12.2	40.6	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	12.2	40.6	ug/kg	1					
Naphthalene	U	ND	12.2	40.6	ug/kg	1					
Phenanthrene	U	ND	12.2	40.6	ug/kg	1					
Pyrene	U	ND	12.8	40.6	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	40.4	123	ug/kg	50	ACJ	01/28/08	1749	721963	3
Ethylbenzene		412	24.5	123	ug/kg	50					
Toluene		589	35.5	123	ug/kg	50					
Xylenes (total)		1860	24.5	123	ug/kg	50					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	846 3050BS PREP	FGA	01/23/08	1300	719250
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/18/08	1558	719184
SW846 5035	5035/8260B Prep	ACJ	01/15/08	1212	721962

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK0619
Sample ID: 201086002

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6010B	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1470 ug/kg	2030	72	(45%-101%)
,benzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1860 ug/kg	2030	92	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1650 ug/kg	2030	81	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	3640 ug/kg	50.0	59*	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4720 ug/kg	50.0	77	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4890 ug/kg	50.0	80	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5200 ug/kg	50.0	85	(74%-126%)

Notes:
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< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK0619
Sample ID: 201086002

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also >70%
Sample results are rejected
Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour

Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK0719
Sample ID: 201086001
Matrix: Soil
Collect Date: 16-JAN-08 08:20
Receive Date: 17-JAN-08
Collector: Client
Moisture: 12.2%

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP										
3050S/6010 Lead Federal "Dry Weight Corrected"										
Lead		1370	284	1140	ug/kg	1	HSC 01/24/08	1641	719251	1
Semi-volatile Mass spec Organics Federal										
3550/8270 PAH Extend list Soil "Dry Weight Corrected"										
' 'loronaphthalene	U	ND	13.1	37.4	ug/kg	1	AGS1 01/19/08	0201	719185	2
;thylnaphthalene	U	ND	7.49	37.4	ug/kg	1				
Acenaphthene	U	ND	12.5	37.4	ug/kg	1				
Acenaphthylene	U	ND	11.2	37.4	ug/kg	1				
Anthracene	U	ND	7.49	37.4	ug/kg	1				
Benzo(a)anthracene	U	ND	11.2	37.4	ug/kg	1				
Benzo(a)pyrene	U	ND	11.2	37.4	ug/kg	1				
Benzo(b)fluoranthene	U	ND	11.2	37.4	ug/kg	1				
Benzo(ghi)perylene	U	ND	11.2	37.4	ug/kg	1				
Benzo(k)fluoranthene	U	ND	11.2	37.4	ug/kg	1				
Chrysene	U	ND	11.2	37.4	ug/kg	1				
Dibenzo(a,h)anthracene	U	ND	11.2	37.4	ug/kg	1				
Fluoranthene	U	ND	11.2	37.4	ug/kg	1				
Fluorene	U	ND	11.2	37.4	ug/kg	1				
Indeno(1,2,3-cd)pyrene	U	ND	11.2	37.4	ug/kg	1				
Naphthalene	U	ND	11.2	37.4	ug/kg	1				
Phenanthrene	U	ND	11.2	37.4	ug/kg	1				
Pyrene	U	ND	11.8	37.4	ug/kg	1				
Volatile Organics Federal										
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"										
Benzene	U	ND	0.348	1.05	ug/kg	1	ACJ 01/28/08	2038	721963	3
Ethylbenzene	U	ND	0.211	1.05	ug/kg	1				
Toluene	U	ND	0.306	1.05	ug/kg	1				
Xylenes (total)	J	0.348	0.211	1.05	ug/kg	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	846 3050BS PREP	FGA	01/23/08	1300	719250
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/18/08	1558	719184
SW846 5035	5035/8260B Prep	ACJ	01/15/08	1206	721962

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID: AK0719
Sample ID: 201086001

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6010B	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1490 ug/kg	1870	80	(45%-101%)
enzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1790 ug/kg	1870	95	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1520 ug/kg	1870	81	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	28.7 ug/kg	40.0	68	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	33.7 ug/kg	40.0	80	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	39.0 ug/kg	40.0	92	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	41.9 ug/kg	40.0	99	(74%-126%)

Notes:
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B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID: AK0719
Sample ID: 201086001

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also >70%
Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK0819	Project:	SAIC08507
Sample ID:	201540001	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	23-JAN-08 09:12		
Receive Date:	24-JAN-08		
Collector:	Client		
Moisture:	9.9%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		5.36	0.107	0.429	mg/kg	2	BAJ	02/05/08	0028	721467	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
[illegible]loronaphthalene	U	ND	12.9	36.9	ug/kg	1	JLD1	01/29/08	1201	721999	2
[illegible]hylnaphthalene	B	63.4	7.39	36.9	ug/kg	1					
[illegible]phthene	U	ND	12.3	36.9	ug/kg	1					
Acenaphthylene	U	ND	11.1	36.9	ug/kg	1					
Anthracene	U	ND	7.39	36.9	ug/kg	1					
Benzo(a)anthracene	U	ND	11.1	36.9	ug/kg	1					
Benzo(a)pyrene	U	ND	11.1	36.9	ug/kg	1					
Benzo(b)fluoranthene	U	ND	11.1	36.9	ug/kg	1					
Benzo(ghi)perylene	U	ND	11.1	36.9	ug/kg	1					
Benzo(k)fluoranthene	U	ND	11.1	36.9	ug/kg	1					
Chrysene	U	ND	11.1	36.9	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	11.1	36.9	ug/kg	1					
Fluoranthene	J	28.0	11.1	36.9	ug/kg	1					
Fluorene	J	11.6	11.1	36.9	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	11.1	36.9	ug/kg	1					
Naphthalene	U	ND	11.1	36.9	ug/kg	1					
Phenanthrene	J	29.4	11.1	36.9	ug/kg	1					
Pyrene	J	12.9	11.6	36.9	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	33.3	101	ug/kg	50	RXY1	02/06/08	1553	723846	3
Ethylbenzene		1360	20.2	101	ug/kg	50					
Toluene	J	65.9	29.3	101	ug/kg	50					
Xylenes (total)		1810	20.2	101	ug/kg	50					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BXA1	02/01/08	0013	721466
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	AXV1	01/28/08	1937	721997
SW846 5035	5035/8260B Prep	RXY1	01/25/08	0742	723844

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK0819
Sample ID: 201540001

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1510 ug/kg	1850	82	(45%-101%)
[illegible]benzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1330 ug/kg	1850	72	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1230 ug/kg	1850	67	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4380 ug/kg	50.0	87	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4440 ug/kg	50.0	88	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4490 ug/kg	50.0	89	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4420 ug/kg	50.0	88	(74%-126%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK0819
Sample ID: 201540001

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also ~~n%
Sample results are rejected
Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis

Reviewed by

GEL 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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK0919
Sample ID: 201540002
Matrix: Soil
Collect Date: 23-JAN-08 10:37
Receive Date: 24-JAN-08
Collector: Client
Moisture: 16.5%

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3050S/6020 Lead Federal "Dry Weight Corrected"										
Lead		11.0	0.118	0.472	mg/kg	2	BAJ 02/05/08	0104	721467	1
Semi-volatile Mass spec Organics Federal										
3550/8270 PAH Extend list Soil "Dry Weight Corrected"										
[illegible]loronaphthalene	U	ND	14.0	39.9	ug/kg	1	JLD1 01/29/08	1223	721999	2
[illegible]thylnaphthalene	B	134	7.98	39.9	ug/kg	1				
Acenaphthene	U	ND	13.3	39.9	ug/kg	1				
Acenaphthylene	U	ND	12.0	39.9	ug/kg	1				
Anthracene	J	10.0	7.98	39.9	ug/kg	1				
Benzo(a)anthracene	U	ND	12.0	39.9	ug/kg	1				
Benzo(a)pyrene	U	ND	12.0	39.9	ug/kg	1				
Benzo(b)fluoranthene	U	ND	12.0	39.9	ug/kg	1				
Benzo(ghi)perylene	U	ND	12.0	39.9	ug/kg	1				
Benzo(k)fluoranthene	U	ND	12.0	39.9	ug/kg	1				
Chrysene	U	ND	12.0	39.9	ug/kg	1				
Dibenzo(a,h)anthracene	U	ND	12.0	39.9	ug/kg	1				
Fluoranthene	J	15.2	12.0	39.9	ug/kg	1				
Fluorene		55.5	12.0	39.9	ug/kg	1				
Indeno(1,2,3-cd)pyrene	U	ND	12.0	39.9	ug/kg	1				
Naphthalene	U	ND	12.0	39.9	ug/kg	1				
Phenanthrene		47.0	12.0	39.9	ug/kg	1				
Pyrene	U	ND	12.5	39.9	ug/kg	1				
Volatile Organics Federal										
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"										
Benzene	U	ND	0.353	1.07	ug/kg	1	RXY1 02/04/08	1718	723846	3
Ethylbenzene	E	645	0.214	1.07	ug/kg	1				
Toluene		2.82	0.310	1.07	ug/kg	1				
Xylenes (total)	E	798	0.214	1.07	ug/kg	1				
Benzene	U	ND	37.3	113	ug/kg	50	RXY1 02/06/08	1941	723846	4
Ethylbenzene		1950	22.6	113	ug/kg	50				
Toluene	U	ND	32.8	113	ug/kg	50				
Xylenes (total)		2370	22.6	113	ug/kg	50				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK0919
Sample ID: 201540002

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3050B	ICP-MS 3050BS PREP			BXA1	02/01/08	0013	721466			
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed			AXV1	01/28/08	1937	721997			
SW846 5035	5035/8260B Prep			RXY1	01/25/08	0747	723844			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	
	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1730 ug/kg	1990	87	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1520 ug/kg	1990	76	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1610 ug/kg	1990	81	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	68.7 ug/kg	65.0	99	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	74.9 ug/kg	65.0	108	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	70.4 ug/kg	65.0	101	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	109 ug/kg	65.0	157*	(74%-126%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4570 ug/kg	50.0	81	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4750 ug/kg	50.0	84	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4730 ug/kg	50.0	84	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4420 ug/kg	50.0	78	(74%-126%)

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK0919
Sample ID: 201540002

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Notes:
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A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK1019	Project:	SAIC08507
Sample ID:	201683001	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	24-JAN-08 08:21		
Receive Date:	25-JAN-08		
Collector:	Client		
Moisture:	6.78%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		24.8	0.105	0.421	mg/kg	2	BAJ	02/05/08	0141	722670	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
[illegible]loronaphthalene	U	ND	12.5	35.7	ug/kg	1	JLD1	01/29/08	1329	721999	2
[illegible]hylnaphthalene	B	133	7.14	35.7	ug/kg	1					
[illegible]phthene	U	ND	11.9	35.7	ug/kg	1					
Acenaphthylene	U	ND	10.7	35.7	ug/kg	1					
Anthracene	U	ND	7.14	35.7	ug/kg	1					
Benzo(a)anthracene	U	ND	10.7	35.7	ug/kg	1					
Benzo(a)pyrene	U	ND	10.7	35.7	ug/kg	1					
Benzo(b)fluoranthene	U	ND	10.7	35.7	ug/kg	1					
Benzo(ghi)perylene	U	ND	10.7	35.7	ug/kg	1					
Benzo(k)fluoranthene	U	ND	10.7	35.7	ug/kg	1					
Chrysene	U	ND	10.7	35.7	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	10.7	35.7	ug/kg	1					
Fluoranthene	U	ND	10.7	35.7	ug/kg	1					
Fluorene		37.4	10.7	35.7	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	10.7	35.7	ug/kg	1					
Naphthalene	U	ND	10.7	35.7	ug/kg	1					
Phenanthrene	J	11.8	10.7	35.7	ug/kg	1					
Pyrene	U	ND	11.2	35.7	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	Uh	ND	0.369	1.12	ug/kg	1	ACJ	02/07/08	1815	724297	3
Ethylbenzene	h	55.9	0.223	1.12	ug/kg	1					
Toluene	h	2.62	0.324	1.12	ug/kg	1					
Xylenes (total)	h	300	0.223	1.12	ug/kg	1					
Benzene	Uh	ND	36.1	109	ug/kg	50	ACJ	02/07/08	0020	724297	4
Ethylbenzene	h	215	21.9	109	ug/kg	50					
Toluene	Uh	ND	31.7	109	ug/kg	50					
Xylenes (total)	h	1030	21.9	109	ug/kg	50					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1019
Sample ID: 201683001

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3050B	ICP-MS 3050BS PREP			BCD1	02/01/08	0945	722668			
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed			AXV1	01/28/08	1937	721997			
SW846 5035	5035/8260B Prep			ACJ	01/28/08	1327	724294			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	
	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1520 ug/kg	1790	85	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1340 ug/kg	1790	75	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1390 ug/kg	1790	78	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	35.8 ug/kg	40.0	80	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	40.4 ug/kg	40.0	90	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	42.4 ug/kg	40.0	95	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	45.4 ug/kg	40.0	102	(74%-126%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	3460 ug/kg	50.0	63	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4440 ug/kg	50.0	81	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4260 ug/kg	50.0	78	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4570 ug/kg	50.0	83	(74%-126%)

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1019
Sample ID: 201683001

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Notes:
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< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1119
Sample ID: 201683002
Matrix: Soil
Collect Date: 24-JAN-08 09:15
Receive Date: 25-JAN-08
Collector: Client
Moisture: 14%

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		26.7	0.113	0.452	mg/kg	2	BAJ	02/05/08	0217	722670	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
2-Chloronaphthalene	U	ND	13.5	38.7	ug/kg	1	JLD1	01/29/08	1352	721999	2
2-Methylnaphthalene	B	273	7.73	38.7	ug/kg	1					
Acenaphthene	U	ND	12.9	38.7	ug/kg	1					
Acenaphthylene	U	ND	11.6	38.7	ug/kg	1					
Anthracene	J	20.3	7.73	38.7	ug/kg	1					
Benzo(a)anthracene	U	ND	11.6	38.7	ug/kg	1					
Benzo(a)pyrene	U	ND	11.6	38.7	ug/kg	1					
Benzo(b)fluoranthene	J	15.2	11.6	38.7	ug/kg	1					
Benzo(ghi)perylene	U	ND	11.6	38.7	ug/kg	1					
Benzo(k)fluoranthene	U	ND	11.6	38.7	ug/kg	1					
Chrysene	U	ND	11.6	38.7	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	11.6	38.7	ug/kg	1					
Fluoranthene		106	11.6	38.7	ug/kg	1					
Fluorene		43.2	11.6	38.7	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	11.6	38.7	ug/kg	1					
Naphthalene	J	37.6	11.6	38.7	ug/kg	1					
Phenanthrene		101	11.6	38.7	ug/kg	1					
Pyrene		62.0	12.1	38.7	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	Jh	259	196	594	ug/kg	250	ACJ	02/07/08	0809	724297	3
Ethylbenzene	h	16200	119	594	ug/kg	250					
Toluene	h	52000	172	594	ug/kg	250					
Xylenes (total)	h	74000	119	594	ug/kg	250					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722668
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	AXV1	01/28/08	1937	721997
SW846 5035	5035/8260B Prep	ACJ	01/28/08	1332	724294

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1119
Sample ID: 201683002

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1630 ug/kg	1930	84	(45%-101%)
enzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1530 ug/kg	1930	79	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1430 ug/kg	1930	74	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4440 ug/kg	40.0	19*	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4380 ug/kg	40.0	18*	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4520 ug/kg	40.0	19*	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4890 ug/kg	40.0	21*	(74%-126%)

Notes:
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C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1119
Sample ID: 201683002

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also ~70%
Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK1219	Project:	SAIC08507
Sample ID:	201683003	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	24-JAN-08 10:12		
Receive Date:	25-JAN-08		
Collector:	Client		
Moisture:	8.98%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3050S/6020 Lead Federal "Dry Weight Corrected"										
Lead		5.05	0.110	0.439	mg/kg	2	BAJ 02/05/08	0222	722670	1
Semi-volatile Mass spec Organics Federal										
3550/8270 PAH Extend list Soil "Dry Weight Corrected"										
loronaphthalene	U	ND	12.8	36.6	ug/kg	1	JLD1 01/29/08	1414	721999	2
hylnaphthalene	BJ	15.2	7.32	36.6	ug/kg	1				
.phthene	U	ND	12.2	36.6	ug/kg	1				
Acenaphthylene	U	ND	11.0	36.6	ug/kg	1				
Anthracene	U	ND	7.32	36.6	ug/kg	1				
Benzo(a)anthracene	U	ND	11.0	36.6	ug/kg	1				
Benzo(a)pyrene	U	ND	11.0	36.6	ug/kg	1				
Benzo(b)fluoranthene	U	ND	11.0	36.6	ug/kg	1				
Benzo(ghi)perylene	U	ND	11.0	36.6	ug/kg	1				
Benzo(k)fluoranthene	U	ND	11.0	36.6	ug/kg	1				
Chrysene	U	ND	11.0	36.6	ug/kg	1				
Dibenzo(a,h)anthracene	U	ND	11.0	36.6	ug/kg	1				
Fluoranthene		48.2	11.0	36.6	ug/kg	1				
Fluorene	U	ND	11.0	36.6	ug/kg	1				
Indeno(1,2,3-cd)pyrene	U	ND	11.0	36.6	ug/kg	1				
Naphthalene	U	ND	11.0	36.6	ug/kg	1				
Phenanthrene		38.1	11.0	36.6	ug/kg	1				
Pyrene	J	26.0	11.5	36.6	ug/kg	1				
Volatile Organics Federal										
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"										
Benzene	Uh	ND	0.386	1.17	ug/kg	1	ACJ 02/06/08	1723	724297	3
Ethylbenzene	Jh	0.313	0.234	1.17	ug/kg	1				
Toluene	Uh	ND	0.339	1.17	ug/kg	1				
Xylenes (total)	h	1.36	0.234	1.17	ug/kg	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722668
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	AXV1	01/28/08	1937	721997
SW846 5035	5035/8260B Prep	ACJ	01/28/08	1334	724294

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK1219
Sample ID: 201683003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1550 ug/kg	1830	85	(45%-101%)
benzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1370 ug/kg	1830	75	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1410 ug/kg	1830	77	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	36.6 ug/kg	40.0	78	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	41.6 ug/kg	40.0	89	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	44.5 ug/kg	40.0	95	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	47.5 ug/kg	40.0	102	(74%-126%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1219
Sample ID: 201683003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also >70%
Sample results are rejected
Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis

Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1319
Sample ID: 201683004
Matrix: Soil
Collect Date: 24-JAN-08 11:08
Receive Date: 25-JAN-08
Collector: Client
Moisture: 6.13%

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		2.20	0.105	0.419	mg/kg	2	BAJ	02/05/08	0227	722670	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
2-Chloronaphthalene	U	ND	12.4	35.4	ug/kg	1	JLD1	01/29/08	1436	721999	2
2-Methylnaphthalene	BJ	8.82	7.08	35.4	ug/kg	1					
Acenaphthene	U	ND	11.8	35.4	ug/kg	1					
Acenaphthylene	U	ND	10.6	35.4	ug/kg	1					
Anthracene	U	ND	7.08	35.4	ug/kg	1					
Benzo(a)anthracene	U	ND	10.6	35.4	ug/kg	1					
Benzo(a)pyrene	U	ND	10.6	35.4	ug/kg	1					
Benzo(b)fluoranthene	U	ND	10.6	35.4	ug/kg	1					
Benzo(ghi)perylene	U	ND	10.6	35.4	ug/kg	1					
Benzo(k)fluoranthene	U	ND	10.6	35.4	ug/kg	1					
Chrysene	U	ND	10.6	35.4	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	10.6	35.4	ug/kg	1					
Fluoranthene	U	ND	10.6	35.4	ug/kg	1					
Fluorene	U	ND	10.6	35.4	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	10.6	35.4	ug/kg	1					
Naphthalene	U	ND	10.6	35.4	ug/kg	1					
Phenanthrene	U	ND	10.6	35.4	ug/kg	1					
Pyrene	U	ND	11.1	35.4	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	Uh	ND	0.374	1.13	ug/kg	1	ACJ	02/06/08	1751	724297	3
Ethylbenzene	Jh	0.342	0.227	1.13	ug/kg	1					
Toluene	Jh	0.540	0.329	1.13	ug/kg	1					
Xylenes (total)	h	1.76	0.227	1.13	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722668
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	AXV1	01/28/08	1937	721997
SW846 5035	5035/8260B Prep	ACJ	01/28/08	1337	724294

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK1319
Sample ID: 201683004

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1560 ug/kg	1770	88	(45%-101%)
benzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1390 ug/kg	1770	79	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1390 ug/kg	1770	79	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	35.5 ug/kg	40.0	78	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	40.1 ug/kg	40.0	88	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	43.1 ug/kg	40.0	95	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	46.8 ug/kg	40.0	103	(74%-126%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1319
Sample ID: 201683004

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also >70%
Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GEL 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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1419
Sample ID: 201540003
Matrix: Soil
Collect Date: 23-JAN-08 11:47
Receive Date: 24-JAN-08
Collector: Client
Moisture: 9.99%

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		14.8	0.106	0.425	mg/kg	2	BAJ	02/05/08	0109	721467	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
[illegible]loronaphthalene	U	ND	13.0	37.0	ug/kg	1	JLD1	01/29/08	1245	721999	2
[illegible]hylnaphthalene	BJ	7.72	7.41	37.0	ug/kg	1					
[illegible]phthene	U	ND	12.4	37.0	ug/kg	1					
Acenaphthylene	U	ND	11.1	37.0	ug/kg	1					
Anthracene	U	ND	7.41	37.0	ug/kg	1					
Benzo(a)anthracene	U	ND	11.1	37.0	ug/kg	1					
Benzo(a)pyrene	U	ND	11.1	37.0	ug/kg	1					
Benzo(b)fluoranthene	U	ND	11.1	37.0	ug/kg	1					
Benzo(ghi)perylene	U	ND	11.1	37.0	ug/kg	1					
Benzo(k)fluoranthene	U	ND	11.1	37.0	ug/kg	1					
Chrysene	U	ND	11.1	37.0	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	11.1	37.0	ug/kg	1					
Fluoranthene	U	ND	11.1	37.0	ug/kg	1					
Fluorene	U	ND	11.1	37.0	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	11.1	37.0	ug/kg	1					
Naphthalene	U	ND	11.1	37.0	ug/kg	1					
Phenanthrene	U	ND	11.1	37.0	ug/kg	1					
Pyrene	U	ND	11.6	37.0	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	0.353	1.07	ug/kg	1	RXY1	02/06/08	1425	723846	3
Ethylbenzene		26.8	0.214	1.07	ug/kg	1					
Toluene	U	ND	0.310	1.07	ug/kg	1					
Xylenes (total)		59.3	0.214	1.07	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BXA1	02/01/08	0013	721466
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	AXV1	01/28/08	1937	721997
SW846 5035	5035/8260B Prep	RXY1	01/25/08	0751	723844

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK1419
Sample ID: 201540003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1390 ug/kg	1850	75	(45%-101%)
benzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1210 ug/kg	1850	65	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1240 ug/kg	1850	67	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	69.2 ug/kg	65.0	100	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	60.7 ug/kg	65.0	87	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	66.9 ug/kg	65.0	96	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	63.4 ug/kg	65.0	91	(74%-126%)

Notes:
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< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1419
Sample ID: 201540003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also >40%
Sample results are rejected
Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK1519
Sample ID: 201540004
Matrix: Soil
Collect Date: 23-JAN-08 12:43
Receive Date: 24-JAN-08
Collector: Client
Moisture: 12.8%

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"										
Benzene	U	ND	0.371	1.12	ug/kg	1	RXY1 02/04/08	1813	723846	1
Ethylbenzene	E	615	0.225	1.12	ug/kg	1				
Toluene	E	827	0.326	1.12	ug/kg	1				
Xylenes (total)	E	1520	0.225	1.12	ug/kg	1				
[illegible]ene	U	ND	38.6	117	ug/kg	50	RXY1 02/06/08	1748	723846	2
Ethylbenzene	U	ND	23.4	117	ug/kg	50				
Toluene	U	ND	33.9	117	ug/kg	50				
Xylenes (total)	J	76.0	23.4	117	ug/kg	50				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035/8260B Prep	RXY1	01/25/08	0757	723844

The following Analytical Methods were performed

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

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	76.9 ug/kg	65.0	105	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	78.2 ug/kg	65.0	107	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	79.7 ug/kg	65.0	109	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	88.8 ug/kg	65.0	122	(74%-126%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5060 ug/kg	50.0	87	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5230 ug/kg	50.0	89	(66%-128%)

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1519
Sample ID: 201540004
Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dibromofluoromethane		5035/8260B BTEX in Solid Federal "Dry Weight Corrected"		5130	ug/kg	50.0	88			(71%-120%)
Toluene-d8		5035/8260B BTEX in Solid Federal "Dry Weight Corrected"		4690	ug/kg	50.0	80			(74%-126%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
The TIC is a suspected aldol-condensation product
For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1519
Sample ID: 201540004

Project: SAIC08507
Client ID: SAIC085

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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis

Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1519
Sample ID: 201683009
Matrix: Soil
Collect Date: 23-JAN-08 12:43
Receive Date: 25-JAN-08
Collector: Client
Moisture: 12.8%

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		27.0	0.112	0.450	mg/kg	2	BAJ	02/05/08	0304	722670	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
[illegible]loronaphthalene	U	ND	13.4	38.2	ug/kg	1	JLD1	01/29/08	1708	721999	2
[illegible]thylnaphthalene	BJ	31.3	7.63	38.2	ug/kg	1					
Acenaphthene	U	ND	12.7	38.2	ug/kg	1					
Acenaphthylene	U	ND	11.5	38.2	ug/kg	1					
Anthracene	U	ND	7.63	38.2	ug/kg	1					
Benzo(a)anthracene	U	ND	11.5	38.2	ug/kg	1					
Benzo(a)pyrene	U	ND	11.5	38.2	ug/kg	1					
Benzo(b)fluoranthene	U	ND	11.5	38.2	ug/kg	1					
Benzo(ghi)perylene	U	ND	11.5	38.2	ug/kg	1					
Benzo(k)fluoranthene	U	ND	11.5	38.2	ug/kg	1					
Chrysene	U	ND	11.5	38.2	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	11.5	38.2	ug/kg	1					
Fluoranthene	J	18.8	11.5	38.2	ug/kg	1					
Fluorene	U	ND	11.5	38.2	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	11.5	38.2	ug/kg	1					
Naphthalene	U	ND	11.5	38.2	ug/kg	1					
Phenanthrene	U	ND	11.5	38.2	ug/kg	1					
Pyrene	U	ND	12.0	38.2	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722668
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	AXV1	01/28/08	1937	721997

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1519
Sample ID: 201683009

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1570 ug/kg	1910	82	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1580 ug/kg	1910	83	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1570 ug/kg	1910	82	(41%-114%)

Notes:
'e Qualifiers in this report are defined as follows :

Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1519
Sample ID: 201683009

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK1619	Project:	SAIC08507
Sample ID:	201683005	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	24-JAN-08 13:01		
Receive Date:	25-JAN-08		
Collector:	Client		
Moisture:	24.7%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		42.3	0.132	0.529	mg/kg	2	BAJ	02/05/08	0233	722670	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
loronaphthalene	U	ND	15.5	44.2	ug/kg	1	JLD1	01/29/08	1458	721999	2
hylnaphthalene	B	49.1	8.83	44.2	ug/kg	1					
aphthene	U	ND	14.8	44.2	ug/kg	1					
Acenaphthylene	U	ND	13.3	44.2	ug/kg	1					
Anthracene	U	ND	8.83	44.2	ug/kg	1					
Benzo(a)anthracene	U	ND	13.3	44.2	ug/kg	1					
Benzo(a)pyrene	U	ND	13.3	44.2	ug/kg	1					
Benzo(b)fluoranthene	U	ND	13.3	44.2	ug/kg	1					
Benzo(ghi)perylene	U	ND	13.3	44.2	ug/kg	1					
Benzo(k)fluoranthene	U	ND	13.3	44.2	ug/kg	1					
Chrysene	U	ND	13.3	44.2	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	13.3	44.2	ug/kg	1					
Fluoranthene	U	ND	13.3	44.2	ug/kg	1					
Fluorene	J	22.5	13.3	44.2	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	13.3	44.2	ug/kg	1					
Naphthalene	U	ND	13.3	44.2	ug/kg	1					
Phenanthrene	U	ND	13.3	44.2	ug/kg	1					
Pyrene	U	ND	13.9	44.2	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	Uh	ND	0.413	1.25	ug/kg	1	ACJ	02/06/08	1818	724297	3
Ethylbenzene	h	48.9	0.251	1.25	ug/kg	1					
Toluene	h	4.38	0.363	1.25	ug/kg	1					
Xylenes (total)	h	245	0.251	1.25	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722668
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	AXV1	01/28/08	1937	721997
SW846 5035	5035/8260B Prep	ACJ	01/28/08	1341	724294

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1619
Sample ID: 201683005

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	2110 ug/kg	2210	96	(45%-101%)
benzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1980 ug/kg	2210	90	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1890 ug/kg	2210	86	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	39.1 ug/kg	40.0	78	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	45.9 ug/kg	40.0	92	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	46.4 ug/kg	40.0	93	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	51.5 ug/kg	40.0	103	(74%-126%)

Notes:
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** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1619
Sample ID: 201683005

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also >40%
Sample results are rejected
Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GEL 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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1719
Sample ID: 201683006
Matrix: Soil
Collect Date: 24-JAN-08 14:07
Receive Date: 25-JAN-08
Collector: Client
Moisture: 4.38%

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		33.6	0.0996	0.398	mg/kg	2	BAJ	02/05/08	0238	722670	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
[illegible]loronaphthalene	U	ND	12.2	34.8	ug/kg	1	JLD1	01/29/08	1519	721999	2
[illegible]thylnaphthalene	BJ	8.84	6.96	34.8	ug/kg	1					
Acenaphthene	U	ND	11.6	34.8	ug/kg	1					
Acenaphthylene	U	ND	10.4	34.8	ug/kg	1					
Anthracene	U	ND	6.96	34.8	ug/kg	1					
Benzo(a)anthracene	U	ND	10.4	34.8	ug/kg	1					
Benzo(a)pyrene	U	ND	10.4	34.8	ug/kg	1					
Benzo(b)fluoranthene	U	ND	10.4	34.8	ug/kg	1					
Benzo(ghi)perylene	U	ND	10.4	34.8	ug/kg	1					
Benzo(k)fluoranthene	U	ND	10.4	34.8	ug/kg	1					
Chrysene	U	ND	10.4	34.8	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	10.4	34.8	ug/kg	1					
Fluoranthene	U	ND	10.4	34.8	ug/kg	1					
Fluorene	U	ND	10.4	34.8	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	10.4	34.8	ug/kg	1					
Naphthalene	U	ND	10.4	34.8	ug/kg	1					
Phenanthrene	U	ND	10.4	34.8	ug/kg	1					
Pyrene	U	ND	10.9	34.8	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	Uh	ND	0.345	1.05	ug/kg	1	ACJ	02/06/08	1846	724297	3
Ethylbenzene	h	30.7	0.209	1.05	ug/kg	1					
Toluene	h	23.6	0.303	1.05	ug/kg	1					
Xylenes (total)	h	170	0.209	1.05	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722668
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	AXV1	01/28/08	1937	721997
SW846 5035	5035/8260B Prep	ACJ	01/28/08	1345	724294

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1719
Sample ID: 201683006

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1490 ug/kg	1740	86	(45%-101%)
enzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1350 ug/kg	1740	78	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1320 ug/kg	1740	76	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	31.3 ug/kg	40.0	75	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	36.8 ug/kg	40.0	88	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	39.0 ug/kg	40.0	93	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	42.6 ug/kg	40.0	102	(74%-126%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1719 Project: SAIC08507
Sample ID: 201683006 Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also >70%
Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK1819	Project:	SAIC08507
Sample ID:	201683007	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	24-JAN-08 15:08		
Receive Date:	25-JAN-08		
Collector:	Client		
Moisture:	17.6%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		46.2	0.120	0.480	mg/kg	2	BAJ	02/05/08	0243	722670	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
loronaphthalene	U	ND	14.1	40.3	ug/kg	1	JLD1	01/29/08	1541	721999	2
hylnaphthalene	B	165	8.07	40.3	ug/kg	1					
aphthene	J	17.5	13.5	40.3	ug/kg	1					
Acenaphthylene	U	ND	12.1	40.3	ug/kg	1					
Anthracene	J	23.7	8.07	40.3	ug/kg	1					
Benzo(a)anthracene	U	ND	12.1	40.3	ug/kg	1					
Benzo(a)pyrene	U	ND	12.1	40.3	ug/kg	1					
Benzo(b)fluoranthene	J	21.7	12.1	40.3	ug/kg	1					
Benzo(ghi)perylene	U	ND	12.1	40.3	ug/kg	1					
Benzo(k)fluoranthene	U	ND	12.1	40.3	ug/kg	1					
Chrysene	U	ND	12.1	40.3	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	12.1	40.3	ug/kg	1					
Fluoranthene		125	12.1	40.3	ug/kg	1					
Fluorene	J	31.9	12.1	40.3	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	12.1	40.3	ug/kg	1					
Naphthalene	U	ND	12.1	40.3	ug/kg	1					
Phenanthrene		136	12.1	40.3	ug/kg	1					
Pyrene		69.3	12.7	40.3	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	Uh	ND	0.417	1.26	ug/kg	1	ACJ	02/06/08	1914	724297	3
Ethylbenzene	Eh	305	0.253	1.26	ug/kg	1					
Toluene	h	32.6	0.367	1.26	ug/kg	1					
Xylenes (total)	h	1220	0.253	1.26	ug/kg	1					
Benzene	Uh	ND	42.6	129	ug/kg	50	ACJ	02/07/08	0837	724297	4
Ethylbenzene	h	142	25.8	129	ug/kg	50					
Toluene	Uh	ND	37.4	129	ug/kg	50					
Xylenes (total)	h	433	25.8	129	ug/kg	50					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1819
Sample ID: 201683007

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3050B	ICP-MS 3050BS PREP			BCD1	02/01/08	0945	722668			
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed			AXV1	01/28/08	1937	721997			
SW846 5035	5035/8260B Prep			ACJ	01/28/08	1349	724294			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	
	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1680 ug/kg	2020	83	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1680 ug/kg	2020	83	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1430 ug/kg	2020	71	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	57.5 ug/kg	40.0	114	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	47.5 ug/kg	40.0	94	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	47.2 ug/kg	40.0	93	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	49.4 ug/kg	40.0	98	(74%-126%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	3500 ug/kg	50.0	54*	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5050 ug/kg	50.0	78	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4230 ug/kg	50.0	66*	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4520 ug/kg	50.0	70*	(74%-126%)

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1819
Sample ID: 201683007

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1919
Sample ID: 201705001
Matrix: Soil
Collect Date: 25-JAN-08 08:11
Receive Date: 26-JAN-08
Collector: Client
Moisture: 13.1%

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		2.54	0.110	0.439	mg/kg	2	BAJ	02/05/08	0315	722670	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
[illegible]loronaphthalene	U	ND	13.1	37.6	ug/kg	1	BJB1	01/31/08	1922	722516	2
[illegible]thylnaphthalene	U	ND	7.51	37.6	ug/kg	1					
Acenaphthene	U	ND	12.5	37.6	ug/kg	1					
Acenaphthylene	U	ND	11.3	37.6	ug/kg	1					
Anthracene	U	ND	7.51	37.6	ug/kg	1					
Benzo(a)anthracene	U	ND	11.3	37.6	ug/kg	1					
Benzo(a)pyrene	U	ND	11.3	37.6	ug/kg	1					
Benzo(b)fluoranthene	U	ND	11.3	37.6	ug/kg	1					
Benzo(ghi)perylene	U	ND	11.3	37.6	ug/kg	1					
Benzo(k)fluoranthene	U	ND	11.3	37.6	ug/kg	1					
Chrysene	U	ND	11.3	37.6	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	11.3	37.6	ug/kg	1					
Fluoranthene	U	ND	11.3	37.6	ug/kg	1					
Fluorene	U	ND	11.3	37.6	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	11.3	37.6	ug/kg	1					
Naphthalene	U	ND	11.3	37.6	ug/kg	1					
Phenanthrene	U	ND	11.3	37.6	ug/kg	1					
Pyrene	U	ND	11.8	37.6	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	0.413	1.25	ug/kg	1	ACJ	02/07/08	1124	724297	3
Ethylbenzene	J	0.348	0.250	1.25	ug/kg	1					
Toluene	J	0.547	0.363	1.25	ug/kg	1					
Xylenes (total)		1.76	0.250	1.25	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722668
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/29/08	1355	722062
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/31/08	1256	722515

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1919
Sample ID: 201705001

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 5035	5035/8260B Prep			ACJ	01/26/08	2324	724294			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
orobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1410 ug/kg	1880	75	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1700 ug/kg	1880	90	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1510 ug/kg	1880	80	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	43.1 ug/kg	40.0	86	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	72.6 ug/kg	40.0	145*	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	50.7 ug/kg	40.0	101	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	72.3 ug/kg	40.0	145*	(74%-126%)

Notes:
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A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
* Analytical holding time was exceeded

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1919
Sample ID: 201705001

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also %
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK2019	Project:	SAIC08507
Sample ID:	201540006	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	23-JAN-08 14:41		
Receive Date:	24-JAN-08		
Collector:	Client		
Moisture:	8.28%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"										
Benzene	U	ND	0.353	1.07	ug/kg	1	RXY1 02/06/08	1329	723846	1
Ethylbenzene	U	ND	0.214	1.07	ug/kg	1				
Toluene	U	ND	0.310	1.07	ug/kg	1				
Xylenes (total)	J	0.443	0.214	1.07	ug/kg	1				

ollowing Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035/8260B Prep	RXY1	01/25/08	0846	723844

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	66.9 ug/kg	65.0	96	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	63.9 ug/kg	65.0	92	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	67.3 ug/kg	65.0	97	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	63.6 ug/kg	65.0	92	(74%-126%)

Notes:
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B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
" Results are either below the MDC or tracer recovery is low

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2019
Sample ID: 201540006

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
. RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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Valerie Davis

Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK2019	Project:	SAIC08507
Sample ID:	201683008	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	23-JAN-08 14:41		
Receive Date:	25-JAN-08		
Collector:	Client		
Moisture:	8.28%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		5.88	0.106	0.423	mg/kg	2	BAJ	02/05/08	0248	722670	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
2-Chloronaphthalene	U	ND	12.7	36.2	ug/kg	1	JLD1	01/29/08	1603	721999	2
2-Methylnaphthalene	B	245	7.25	36.2	ug/kg	1					
Acenaphthene	J	29.6	12.1	36.2	ug/kg	1					
Acenaphthylene	U	ND	10.9	36.2	ug/kg	1					
Anthracene	U	ND	7.25	36.2	ug/kg	1					
Benzo(a)anthracene	U	ND	10.9	36.2	ug/kg	1					
Benzo(a)pyrene	U	ND	10.9	36.2	ug/kg	1					
Benzo(b)fluoranthene	U	ND	10.9	36.2	ug/kg	1					
Benzo(ghi)perylene	U	ND	10.9	36.2	ug/kg	1					
Benzo(k)fluoranthene	U	ND	10.9	36.2	ug/kg	1					
Chrysene	U	ND	10.9	36.2	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	10.9	36.2	ug/kg	1					
Fluoranthene	U	ND	10.9	36.2	ug/kg	1					
Fluorene	J	13.7	10.9	36.2	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	10.9	36.2	ug/kg	1					
Naphthalene	U	ND	10.9	36.2	ug/kg	1					
Phenanthrene	U	ND	10.9	36.2	ug/kg	1					
Pyrene	U	ND	11.4	36.2	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722668
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	AXV1	01/28/08	1937	721997

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2019
Sample ID: 201683008

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1510 ug/kg	1810	83	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1350 ug/kg	1810	75	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1350 ug/kg	1810	75	(41%-114%)

Notes:
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D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2019
Sample ID: 201683008

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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Valerie Davis
iewed by

GEL 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

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Report Date: April 9, 2008

Client Sample ID:	AK2119	Project:	SAIC08507
Sample ID:	201540005	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	23-JAN-08 13:59		
Receive Date:	24-JAN-08		
Collector:	Client		
Moisture:	6.97%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3050S/6020 Lead Federal "Dry Weight Corrected"										
Lead		11.0	0.105	0.420	mg/kg	2	BAJ 02/05/08	0115	721467	1
Semi-volatile Mass spec Organics Federal										
3550/8270 PAH Extend list Soil "Dry Weight Corrected"										
^ `loronaphthalene	U	ND	12.5	35.7	ug/kg	1	JLD1 01/29/08	1307	721999	2
. .thylnaphthalene	B	44.0	7.15	35.7	ug/kg	1				
Acenaphthene	U	ND	11.9	35.7	ug/kg	1				
Acenaphthylene	U	ND	10.7	35.7	ug/kg	1				
Anthracene	U	ND	7.15	35.7	ug/kg	1				
Benzo(a)anthracene	J	11.5	10.7	35.7	ug/kg	1				
Benzo(a)pyrene	U	ND	10.7	35.7	ug/kg	1				
Benzo(b)fluoranthene	U	ND	10.7	35.7	ug/kg	1				
Benzo(ghi)perylene	U	ND	10.7	35.7	ug/kg	1				
Benzo(k)fluoranthene	U	ND	10.7	35.7	ug/kg	1				
Chrysene	U	ND	10.7	35.7	ug/kg	1				
Dibenzo(a,h)anthracene	U	ND	10.7	35.7	ug/kg	1				
Fluoranthene	J	24.7	10.7	35.7	ug/kg	1				
Fluorene	J	10.8	10.7	35.7	ug/kg	1				
Indeno(1,2,3-cd)pyrene	U	ND	10.7	35.7	ug/kg	1				
Naphthalene	U	ND	10.7	35.7	ug/kg	1				
Phenanthrene	J	27.4	10.7	35.7	ug/kg	1				
Pyrene	J	15.0	11.2	35.7	ug/kg	1				
Volatile Organics Federal										
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"										
Benzene	U	ND	0.377	1.14	ug/kg	1	RXY1 02/04/08	2006	723846	3
Ethylbenzene	E	1060	0.229	1.14	ug/kg	1				
Toluene	E	1340	0.332	1.14	ug/kg	1				
Xylenes (total)	E	2610	0.229	1.14	ug/kg	1				
Benzene	U	ND	36.2	110	ug/kg	50	RXY1 02/06/08	1844	723846	4
Ethylbenzene		1910	21.9	110	ug/kg	50				
Toluene		513	31.8	110	ug/kg	50				
Xylenes (total)		12200	21.9	110	ug/kg	50				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2119
Sample ID: 201540005

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3050B	ICP-MS 3050BS PREP			BXA1	02/01/08	0013	721466			
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed			AXV1	01/28/08	1937	721997			
SW846 5035	5035/8260B Prep			RXY1	01/25/08	0842	723844			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	
	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1540 ug/kg	1790	86	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1430 ug/kg	1790	80	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1450 ug/kg	1790	81	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	74.0 ug/kg	65.0	99	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	85.2 ug/kg	65.0	115	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	78.3 ug/kg	65.0	105	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	120 ug/kg	65.0	162*	(74%-126%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5040 ug/kg	50.0	92	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5050 ug/kg	50.0	92	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5180 ug/kg	50.0	94	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4870 ug/kg	50.0	89	(74%-126%)

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2119
Sample ID: 201540005

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK2213	Project:	SAIC08507
Sample ID:	201705003	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	25-JAN-08 09:13		
Receive Date:	26-JAN-08		
Collector:	Client		
Moisture:	12.1%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		31.6	0.108	0.433	mg/kg	2	BAJ	02/05/08	0325	722670	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
[illegible]loronaphthalene	U	ND	13.0	37.2	ug/kg	1	BJB1	01/31/08	2044	722516	2
[illegible]hylnaphthalene		69.8	7.45	37.2	ug/kg	1					
[illegible]phthene	U	ND	12.4	37.2	ug/kg	1					
Acenaphthylene	U	ND	11.2	37.2	ug/kg	1					
Anthracene	U	ND	7.45	37.2	ug/kg	1					
Benzo(a)anthracene	U	ND	11.2	37.2	ug/kg	1					
Benzo(a)pyrene	U	ND	11.2	37.2	ug/kg	1					
Benzo(b)fluoranthene	U	ND	11.2	37.2	ug/kg	1					
Benzo(ghi)perylene	U	ND	11.2	37.2	ug/kg	1					
Benzo(k)fluoranthene	U	ND	11.2	37.2	ug/kg	1					
Chrysene	U	ND	11.2	37.2	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	11.2	37.2	ug/kg	1					
Fluoranthene	U	ND	11.2	37.2	ug/kg	1					
Fluorene		40.2	11.2	37.2	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	11.2	37.2	ug/kg	1					
Naphthalene		48.5	11.2	37.2	ug/kg	1					
Phenanthrene	U	ND	11.2	37.2	ug/kg	1					
Pyrene	U	ND	11.7	37.2	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	0.375	1.14	ug/kg	1	ACJ	02/07/08	1219	724297	3
Ethylbenzene	U	ND	0.227	1.14	ug/kg	1					
Toluene	U	ND	0.330	1.14	ug/kg	1					
Xylenes (total)		2.03	0.227	1.14	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722668
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/29/08	1355	722062
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/31/08	1256	722515

Certificate of Analysis

Company : SAIC
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Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2213
Sample ID: 201705003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 5035	5035/8260B Prep			ACJ	01/26/08	2318	724294			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
orobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1400 ug/kg	1860	75	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1870 ug/kg	1860	100	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1530 ug/kg	1860	82	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	36.3 ug/kg	40.0	80	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	40.8 ug/kg	40.0	90	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	43.0 ug/kg	40.0	94	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	46.4 ug/kg	40.0	102	(74%-126%)

Notes:
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BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
* Analytical holding time was exceeded

Certificate of Analysis

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Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2213
Sample ID: 201705003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also %
Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2219
Sample ID: 201705002
Matrix: Soil
Collect Date: 25-JAN-08 09:13
Receive Date: 26-JAN-08
Collector: Client
Moisture: 12%

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		35.2	0.113	0.454	mg/kg	2	BAJ	02/05/08	0320	722670	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
[illegible]loronaphthalene	U	ND	13.1	37.5	ug/kg	1	BJB1	01/31/08	2024	722516	2
[illegible]thylnaphthalene		164	7.49	37.5	ug/kg	1					
Acenaphthene	U	ND	12.5	37.5	ug/kg	1					
Acenaphthylene	U	ND	11.2	37.5	ug/kg	1					
Anthracene	U	ND	7.49	37.5	ug/kg	1					
Benzo(a)anthracene	U	ND	11.2	37.5	ug/kg	1					
Benzo(a)pyrene	U	ND	11.2	37.5	ug/kg	1					
Benzo(b)fluoranthene	U	ND	11.2	37.5	ug/kg	1					
Benzo(ghi)perylene	U	ND	11.2	37.5	ug/kg	1					
Benzo(k)fluoranthene	U	ND	11.2	37.5	ug/kg	1					
Chrysene	U	ND	11.2	37.5	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	11.2	37.5	ug/kg	1					
Fluoranthene	U	ND	11.2	37.5	ug/kg	1					
Fluorene		90.3	11.2	37.5	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	11.2	37.5	ug/kg	1					
Naphthalene		142	11.2	37.5	ug/kg	1					
Phenanthrene	J	19.2	11.2	37.5	ug/kg	1					
Pyrene	U	ND	11.8	37.5	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	0.391	1.18	ug/kg	1	ACJ	02/07/08	1152	724297	3
Ethylbenzene	U	ND	0.237	1.18	ug/kg	1					
Toluene	U	ND	0.343	1.18	ug/kg	1					
Xylenes (total)		1.74	0.237	1.18	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722668
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/29/08	1355	722062
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/31/08	1256	722515

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK2219
Sample ID: 201705002

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 5035	5035/8260B Prep			ACJ	01/26/08	2312	724294			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
›robiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1390 ug/kg	1870	74	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1740 ug/kg	1870	93	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1520 ug/kg	1870	81	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	41.2 ug/kg	40.0	87	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	41.7 ug/kg	40.0	88	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	46.1 ug/kg	40.0	97	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	47.0 ug/kg	40.0	99	(74%-126%)

Notes:
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C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK2219
Sample ID: 201705002

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also %
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK2319	Project:	SAIC08507
Sample ID:	201705004	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	25-JAN-08 10:40		
Receive Date:	26-JAN-08		
Collector:	Client		
Moisture:	7.71%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		18.8	0.104	0.417	mg/kg	2	BAJ	02/05/08	0330	722670	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
[illegible]loronaphthalene	U	ND	12.6	36.0	ug/kg	1	BJB1	01/31/08	2105	722516	2
[illegible]ylnaphthalene		76.2	7.21	36.0	ug/kg	1					
[illegible]phthene	U	ND	12.0	36.0	ug/kg	1					
Acenaphthylene	U	ND	10.8	36.0	ug/kg	1					
Anthracene	U	ND	7.21	36.0	ug/kg	1					
Benzo(a)anthracene	U	ND	10.8	36.0	ug/kg	1					
Benzo(a)pyrene	U	ND	10.8	36.0	ug/kg	1					
Benzo(b)fluoranthene	U	ND	10.8	36.0	ug/kg	1					
Benzo(ghi)perylene	U	ND	10.8	36.0	ug/kg	1					
Benzo(k)fluoranthene	U	ND	10.8	36.0	ug/kg	1					
Chrysene	U	ND	10.8	36.0	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	10.8	36.0	ug/kg	1					
Fluoranthene	J	15.2	10.8	36.0	ug/kg	1					
Fluorene	J	33.4	10.8	36.0	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	10.8	36.0	ug/kg	1					
Naphthalene		45.7	10.8	36.0	ug/kg	1					
Phenanthrene	J	18.8	10.8	36.0	ug/kg	1					
Pyrene	U	ND	11.3	36.0	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	0.416	1.26	ug/kg	1	ACJ	02/08/08	1242	724297	3
Ethylbenzene		64.1	0.252	1.26	ug/kg	1					
Toluene	U	ND	0.365	1.26	ug/kg	1					
Xylenes (total)		141	0.252	1.26	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722668
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/29/08	1355	722062
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/31/08	1256	722515

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
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Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK2319
Sample ID: 201705004

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 5035	5035/8260B Prep			ACJ	01/26/08	2346	724294			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
orobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1330 ug/kg	1800	74	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1750 ug/kg	1800	97	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1390 ug/kg	1800	77	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	43.6 ug/kg	40.0	87	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	42.5 ug/kg	40.0	84	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	48.9 ug/kg	40.0	97	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	51.0 ug/kg	40.0	101	(74%-126%)

Notes:
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BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
' Analytical holding time was exceeded

Certificate of Analysis

Company : SAIC
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Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2319
Sample ID: 201705004

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also %
Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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Valerie Davis
Reviewed by

Certificate of Analysis

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Oak Ridge, Tennessee 37831

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK2419
Sample ID: 201705005
Matrix: Soil
Collect Date: 25-JAN-08 11:38
Receive Date: 26-JAN-08
Collector: Client
Moisture: 7.76%

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		25.8	0.106	0.423	mg/kg	2	BAJ	02/05/08	0346	722670	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
? ``toronaphthalene	U	ND	12.5	35.8	ug/kg	1	BJB1	01/31/08	2126	722516	2
. thylnaphthalene		42.7	7.17	35.8	ug/kg	1					
Acenaphthene	U	ND	12.0	35.8	ug/kg	1					
Acenaphthylene	U	ND	10.7	35.8	ug/kg	1					
Anthracene	J	7.18	7.17	35.8	ug/kg	1					
Benzo(a)anthracene	J	17.4	10.7	35.8	ug/kg	1					
Benzo(a)pyrene	U	ND	10.7	35.8	ug/kg	1					
Benzo(b)fluoranthene	U	ND	10.7	35.8	ug/kg	1					
Benzo(ghi)perylene	U	ND	10.7	35.8	ug/kg	1					
Benzo(k)fluoranthene	U	ND	10.7	35.8	ug/kg	1					
Chrysene	U	ND	10.7	35.8	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	10.7	35.8	ug/kg	1					
Fluoranthene		39.1	10.7	35.8	ug/kg	1					
Fluorene	U	ND	10.7	35.8	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	10.7	35.8	ug/kg	1					
Naphthalene	J	24.5	10.7	35.8	ug/kg	1					
Phenanthrene		47.6	10.7	35.8	ug/kg	1					
Pyrene	J	28.2	11.2	35.8	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	0.358	1.08	ug/kg	1	ACJ	02/07/08	1342	724297	3
Ethylbenzene		96.6	0.217	1.08	ug/kg	1					
Toluene	J	1.05	0.314	1.08	ug/kg	1					
Xylenes (total)		316	0.217	1.08	ug/kg	1					
Benzene	U	ND	34.4	104	ug/kg	50	ACJ	02/06/08	2352	724297	4
Ethylbenzene		112	20.8	104	ug/kg	50					
Toluene	U	ND	30.2	104	ug/kg	50					
Xylenes (total)		401	20.8	104	ug/kg	50					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2419
Sample ID: 201705005

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3050B	ICP-MS 3050BS PREP			BCD1	02/01/08	0945	722668			
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed			RXH3	01/29/08	1355	722062			
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed			RXH3	01/31/08	1256	722515			
SW846 5035	5035/8260B Prep			ACJ	01/26/08	2332	724294			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
	SW846 8260B	
	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1350 ug/kg	1790	75	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1770 ug/kg	1790	99	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1410 ug/kg	1790	79	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	37.8 ug/kg	40.0	87	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	38.8 ug/kg	40.0	89	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	39.9 ug/kg	40.0	92	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	43.8 ug/kg	40.0	101	(74%-126%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	3450 ug/kg	50.0	66	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4490 ug/kg	50.0	86	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4260 ug/kg	50.0	82	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4560 ug/kg	50.0	88	(74%-126%)

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2419
Sample ID: 201705005

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GEL 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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2519
Sample ID: 201705006
Matrix: Soil
Collect Date: 25-JAN-08 13:06
Receive Date: 26-JAN-08
Collector: Client
Moisture: 12.3%

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		6.47	0.111	0.443	mg/kg	2	BAJ	02/05/08	0351	722670	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
2-Chloronaphthalene	U	ND	12.9	36.9	ug/kg	1	BJB1	01/31/08	2146	722516	2
2-Methylnaphthalene	U	ND	7.37	36.9	ug/kg	1					
Acenaphthene	U	ND	12.3	36.9	ug/kg	1					
Acenaphthylene	U	ND	11.1	36.9	ug/kg	1					
Anthracene	U	ND	7.37	36.9	ug/kg	1					
Benzo(a)anthracene	U	ND	11.1	36.9	ug/kg	1					
Benzo(a)pyrene	U	ND	11.1	36.9	ug/kg	1					
Benzo(b)fluoranthene	U	ND	11.1	36.9	ug/kg	1					
Benzo(ghi)perylene	U	ND	11.1	36.9	ug/kg	1					
Benzo(k)fluoranthene	U	ND	11.1	36.9	ug/kg	1					
Chrysene	U	ND	11.1	36.9	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	11.1	36.9	ug/kg	1					
Fluoranthene	U	ND	11.1	36.9	ug/kg	1					
Fluorene	U	ND	11.1	36.9	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	11.1	36.9	ug/kg	1					
Naphthalene	U	ND	11.1	36.9	ug/kg	1					
Phenanthrene	U	ND	11.1	36.9	ug/kg	1					
Pyrene	U	ND	11.6	36.9	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	0.342	1.04	ug/kg	1	ACJ	02/07/08	1247	724297	3
Ethylbenzene	U	ND	0.207	1.04	ug/kg	1					
Toluene	U	ND	0.301	1.04	ug/kg	1					
Xylenes (total)	J	0.662	0.207	1.04	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722668
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/29/08	1355	722062
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/31/08	1256	722515

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK2519
Sample ID: 201705006

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 5035	5035/8260B Prep			ACJ	01/26/08	2336	724294			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
orobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1500 ug/kg	1840	81	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1810 ug/kg	1840	98	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1560 ug/kg	1840	85	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	33.3 ug/kg	40.0	80	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	36.9 ug/kg	40.0	89	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	39.3 ug/kg	40.0	95	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	42.4 ug/kg	40.0	102	(74%-126%)

Notes:
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< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
* Analytical holding time was exceeded

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2519 Project: SAIC08507
Sample ID: 201705006 Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also %
Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK2619	Project:	SAIC08507
Sample ID:	201705007	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	25-JAN-08 14:25		
Receive Date:	26-JAN-08		
Collector:	Client		
Moisture:	7.83%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		2.48	0.107	0.430	mg/kg	2	BAJ	02/05/08	0356	722670	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
[illegible]loronaphthalene	U	ND	12.4	35.5	ug/kg	1	BJB1	01/31/08	2207	722516	2
[illegible]thylnaphthalene	U	ND	7.11	35.5	ug/kg	1					
Acenaphthene	U	ND	11.9	35.5	ug/kg	1					
Acenaphthylene	U	ND	10.7	35.5	ug/kg	1					
Anthracene	U	ND	7.11	35.5	ug/kg	1					
Benzo(a)anthracene	U	ND	10.7	35.5	ug/kg	1					
Benzo(a)pyrene	U	ND	10.7	35.5	ug/kg	1					
Benzo(b)fluoranthene	U	ND	10.7	35.5	ug/kg	1					
Benzo(ghi)perylene	U	ND	10.7	35.5	ug/kg	1					
Benzo(k)fluoranthene	U	ND	10.7	35.5	ug/kg	1					
Chrysene	U	ND	10.7	35.5	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	10.7	35.5	ug/kg	1					
Fluoranthene	U	ND	10.7	35.5	ug/kg	1					
Fluorene	U	ND	10.7	35.5	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	10.7	35.5	ug/kg	1					
Naphthalene	U	ND	10.7	35.5	ug/kg	1					
Phenanthrene	U	ND	10.7	35.5	ug/kg	1					
Pyrene	U	ND	11.2	35.5	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	J	0.609	0.358	1.08	ug/kg	1	ACJ	02/07/08	1314	724297	3
Ethylbenzene	J	0.781	0.217	1.08	ug/kg	1					
Toluene	J	0.857	0.315	1.08	ug/kg	1					
Xylenes (total)		3.41	0.217	1.08	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722668
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/29/08	1355	722062
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/31/08	1256	722515

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK2619
Sample ID: 201705007

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 5035	5035/8260B Prep			ACJ	01/26/08	2342	724294			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
robiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1350 ug/kg	1780	76	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1600 ug/kg	1780	90	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1420 ug/kg	1780	80	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	35.1 ug/kg	40.0	81	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	39.2 ug/kg	40.0	90	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	41.8 ug/kg	40.0	96	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	43.9 ug/kg	40.0	101	(74%-126%)

Notes:
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< Result is less than value reported
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A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2619
Sample ID: 201705007

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also %
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK2719	Project:	SAIC08507
Sample ID:	201709001	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	26-JAN-08 08:28		
Receive Date:	27-JAN-08		
Collector:	Client		
Moisture:	7.49%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3050S/6020 Lead Federal "Dry Weight Corrected"										
Lead		13.3	0.104	0.417	mg/kg	2	RMJ 02/02/08	1129	722681	1
Semi-volatile Mass spec Organics Federal										
3550/8270 PAH Extend list Soil "Dry Weight Corrected"										
[illegible]oronaphthalene	U	ND	12.4	35.4	ug/kg	1	BJB1 01/31/08	2228	722516	2
[illegible]ylnaphthalene	J	7.96	7.08	35.4	ug/kg	1				
[illegible]phthene	U	ND	11.8	35.4	ug/kg	1				
Acenaphthylene	U	ND	10.6	35.4	ug/kg	1				
Anthracene	U	ND	7.08	35.4	ug/kg	1				
Benzo(a)anthracene	U	ND	10.6	35.4	ug/kg	1				
Benzo(a)pyrene	U	ND	10.6	35.4	ug/kg	1				
Benzo(b)fluoranthene	U	ND	10.6	35.4	ug/kg	1				
Benzo(ghi)perylene	U	ND	10.6	35.4	ug/kg	1				
Benzo(k)fluoranthene	U	ND	10.6	35.4	ug/kg	1				
Chrysene	U	ND	10.6	35.4	ug/kg	1				
Dibenzo(a,h)anthracene	U	ND	10.6	35.4	ug/kg	1				
Fluoranthene	U	ND	10.6	35.4	ug/kg	1				
Fluorene	U	ND	10.6	35.4	ug/kg	1				
Indeno(1,2,3-cd)pyrene	U	ND	10.6	35.4	ug/kg	1				
Naphthalene	U	ND	10.6	35.4	ug/kg	1				
Phenanthrene	U	ND	10.6	35.4	ug/kg	1				
Pyrene	U	ND	11.1	35.4	ug/kg	1				
Volatile Organics Federal										
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"										
Benzene		1.30	0.357	1.08	ug/kg	1	DXR1 02/08/08	0025	724727	3
Ethylbenzene		72.2	0.216	1.08	ug/kg	1				
Toluene		44.5	0.313	1.08	ug/kg	1				
Xylenes (total)		407	0.216	1.08	ug/kg	1				
Benzene	U	ND	36.4	110	ug/kg	50	DXR1 02/06/08	2331	724727	4
Ethylbenzene	J	60.5	22.1	110	ug/kg	50				
Toluene	J	76.3	32.0	110	ug/kg	50				
Xylenes (total)		348	22.1	110	ug/kg	50				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK2719
Sample ID: 201709001

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3050B	ICP-MS 3050BS PREP			BCD1	02/01/08	0945	722679			
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed			RXH3	01/29/08	1355	722062			
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed			RXH3	01/31/08	1256	722515			
SW846 5035	5035/8260B Prep			DXR1	01/27/08	2124	724726			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
	SW846 8260B	
4	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1270 ug/kg	1770	72	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1590 ug/kg	1770	90	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1330 ug/kg	1770	75	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	70.8 ug/kg	65.0	101	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	79.1 ug/kg	65.0	113	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	78.5 ug/kg	65.0	112	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	80.4 ug/kg	65.0	114	(74%-126%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4340 ug/kg	50.0	79	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5070 ug/kg	50.0	92	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4610 ug/kg	50.0	84	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4720 ug/kg	50.0	86	(74%-126%)

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK2719
Sample ID: 201709001

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GEL 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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK2819	Project:	SAIC08507
Sample ID:	201709002	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	26-JAN-08 09:40		
Receive Date:	27-JAN-08		
Collector:	Client		
Moisture:	5.14%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3050S/6020 Lead Federal "Dry Weight Corrected"										
Lead		7.72	0.101	0.404	mg/kg	2	RMJ 02/02/08	1205	722681	1
Semi-volatile Mass spec Organics Federal										
3550/8270 PAH Extend list Soil "Dry Weight Corrected"										
[illegible]oronaphthalene	U	ND	12.2	34.8	ug/kg	1	BJB1 01/31/08	2249	722516	2
[illegible]thylnaphthalene		52.3	6.96	34.8	ug/kg	1				
Acenaphthene	U	ND	11.6	34.8	ug/kg	1				
Acenaphthylene	U	ND	10.4	34.8	ug/kg	1				
Anthracene	U	ND	6.96	34.8	ug/kg	1				
Benzo(a)anthracene	U	ND	10.4	34.8	ug/kg	1				
Benzo(a)pyrene	U	ND	10.4	34.8	ug/kg	1				
Benzo(b)fluoranthene	U	ND	10.4	34.8	ug/kg	1				
Benzo(ghi)perylene	U	ND	10.4	34.8	ug/kg	1				
Benzo(k)fluoranthene	U	ND	10.4	34.8	ug/kg	1				
Chrysene	U	ND	10.4	34.8	ug/kg	1				
Dibenzo(a,h)anthracene	U	ND	10.4	34.8	ug/kg	1				
Fluoranthene	U	ND	10.4	34.8	ug/kg	1				
Fluorene	J	30.3	10.4	34.8	ug/kg	1				
Indeno(1,2,3-cd)pyrene	U	ND	10.4	34.8	ug/kg	1				
Naphthalene		36.6	10.4	34.8	ug/kg	1				
Phenanthrene	U	ND	10.4	34.8	ug/kg	1				
Pyrene	U	ND	10.9	34.8	ug/kg	1				
Volatile Organics Federal										
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"										
Benzene	U	ND	0.378	1.15	ug/kg	1	DXR1 02/09/08	0110	724727	3
Ethylbenzene		9.61	0.229	1.15	ug/kg	1				
Toluene		6.95	0.332	1.15	ug/kg	1				
Xylenes (total)		68.6	0.229	1.15	ug/kg	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722679
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/29/08	1355	722062
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/31/08	1256	722515

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK2819
Sample ID: 201709002

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 5035	5035/8260B Prep			DXR1	01/27/08	2128	724726			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
›robiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1200 ug/kg	1740	69	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1500 ug/kg	1740	86	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1260 ug/kg	1740	72	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	77.0 ug/kg	65.0	103	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	89.5 ug/kg	65.0	120	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	83.5 ug/kg	65.0	112	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	90.1 ug/kg	65.0	121	(74%-126%)

Notes:
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A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
` Analytical holding time was exceeded

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2819
Sample ID: 201709002

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
r Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also %
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GEL 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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK2919	Project:	SAIC08507
Sample ID:	201709003	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	26-JAN-08 10:30		
Receive Date:	27-JAN-08		
Collector:	Client		
Moisture:	6.98%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		12.2	0.108	0.430	mg/kg	2	RMJ	02/02/08	1210	722681	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
? loronaphthalene	U	ND	12.4	35.5	ug/kg	1	BJB1	01/31/08	2309	722516	2
hylnaphthalene		83.5	7.10	35.5	ug/kg	1					
.phthene	U	ND	11.9	35.5	ug/kg	1					
Acenaphthylene	U	ND	10.6	35.5	ug/kg	1					
Anthracene	U	ND	7.10	35.5	ug/kg	1					
Benzo(a)anthracene	J	13.4	10.6	35.5	ug/kg	1					
Benzo(a)pyrene	U	ND	10.6	35.5	ug/kg	1					
Benzo(b)fluoranthene	U	ND	10.6	35.5	ug/kg	1					
Benzo(ghi)perylene	U	ND	10.6	35.5	ug/kg	1					
Benzo(k)fluoranthene	U	ND	10.6	35.5	ug/kg	1					
Chrysene	U	ND	10.6	35.5	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	10.6	35.5	ug/kg	1					
Fluoranthene	J	24.5	10.6	35.5	ug/kg	1					
Fluorene	J	31.8	10.6	35.5	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	10.6	35.5	ug/kg	1					
Naphthalene		67.5	10.6	35.5	ug/kg	1					
Phenanthrene	J	27.5	10.6	35.5	ug/kg	1					
Pyrene	J	14.7	11.1	35.5	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	0.394	1.19	ug/kg	1	DXR1	02/08/08	0123	724727	3
Ethylbenzene	E	1010	0.239	1.19	ug/kg	1					
Toluene	E	1000	0.346	1.19	ug/kg	1					
Xylenes (total)		3230	0.239	1.19	ug/kg	1					
Benzene	U	ND	38.6	117	ug/kg	50	DXR1	02/07/08	0029	724727	4
Ethylbenzene	J	25.6	23.4	117	ug/kg	50					
Toluene	J	41.3	33.9	117	ug/kg	50					
Xylenes (total)		194	23.4	117	ug/kg	50					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2919
Sample ID: 201709003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3050B	ICP-MS 3050BS PREP			BCD1	02/01/08	0945	722679			
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed			RXH3	01/29/08	1355	722062			
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed			RXH3	01/31/08	1256	722515			
SW846 5035	5035/8260B Prep			DXR1	01/27/08	2136	724726			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
	SW846 8260B	
4	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1380 ug/kg	1770	78	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1640 ug/kg	1770	93	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1490 ug/kg	1770	84	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	72.0 ug/kg	65.0	93	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	96.2 ug/kg	65.0	124	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	82.7 ug/kg	65.0	107	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	118 ug/kg	65.0	151*	(74%-126%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5530 ug/kg	50.0	95	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	6380 ug/kg	50.0	109	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5820 ug/kg	50.0	100	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5780 ug/kg	50.0	99	(74%-126%)

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK2919
Sample ID: 201709003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK3019
Sample ID: 201709004
Matrix: Soil
Collect Date: 26-JAN-08 11:40
Receive Date: 27-JAN-08
Collector: Client
Moisture: 12.7%

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		17.1	0.113	0.452	mg/kg	2	RMJ	02/02/08	1215	722681	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
[illegible]loronaphthalene	U	ND	13.3	38.1	ug/kg	1	BJB1	01/31/08	2330	722516	2
[illegible]thylnaphthalene		120	7.63	38.1	ug/kg	1					
Acenaphthene	J	28.9	12.7	38.1	ug/kg	1					
Acenaphthylene	U	ND	11.4	38.1	ug/kg	1					
Anthracene	J	37.4	7.63	38.1	ug/kg	1					
Benzo(a)anthracene		53.9	11.4	38.1	ug/kg	1					
Benzo(a)pyrene	U	ND	11.4	38.1	ug/kg	1					
Benzo(b)fluoranthene		38.8	11.4	38.1	ug/kg	1					
Benzo(ghi)perylene	U	ND	11.4	38.1	ug/kg	1					
Benzo(k)fluoranthene	U	ND	11.4	38.1	ug/kg	1					
Chrysene	J	28.2	11.4	38.1	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	11.4	38.1	ug/kg	1					
Fluoranthene		172	11.4	38.1	ug/kg	1					
Fluorene	J	34.2	11.4	38.1	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	11.4	38.1	ug/kg	1					
Naphthalene		100	11.4	38.1	ug/kg	1					
Phenanthrene		175	11.4	38.1	ug/kg	1					
Pyrene		95.1	12.0	38.1	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	0.411	1.24	ug/kg	1	DXR1	02/09/08	0237	724727	3
Ethylbenzene	E	1600	0.249	1.24	ug/kg	1					
Toluene		7.59	0.361	1.24	ug/kg	1					
Xylenes (total)		4070	0.249	1.24	ug/kg	1					
Benzene	U	ND	41.1	124	ug/kg	50	DXR1	02/07/08	0058	724727	4
Ethylbenzene		1690	24.9	124	ug/kg	50					
Toluene	U	ND	36.1	124	ug/kg	50					
Xylenes (total)		5570	24.9	124	ug/kg	50					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK3019
Sample ID: 201709004

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3050B	ICP-MS 3050BS PREP			BCD1	02/01/08	0945	722679			
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed			RXH3	01/29/08	1355	722062			
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed			RXH3	01/31/08	1256	722515			
SW846 5035	5035/8260B Prep			DXR1	01/27/08	2118	724726			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
	SW846 8260B	
	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1380 ug/kg	1910	73	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1900 ug/kg	1910	100	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1510 ug/kg	1910	79	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	73.7 ug/kg	65.0	91	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	101 ug/kg	65.0	124	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	76.0 ug/kg	65.0	94	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	143 ug/kg	65.0	177*	(74%-126%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5850 ug/kg	50.0	94	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	6600 ug/kg	50.0	106	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	6070 ug/kg	50.0	98	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5980 ug/kg	50.0	96	(74%-126%)

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK3019 Project: SAIC08507
Sample ID: 201709004 Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK3119	Project:	SAIC08507
Sample ID:	201709005	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	26-JAN-08 13:10		
Receive Date:	27-JAN-08		
Collector:	Client		
Moisture:	14.1%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		2.17	0.114	0.457	mg/kg	2	RMJ	02/02/08	1231	722681	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
[illegible]oronaphthalene	U	ND	13.4	38.3	ug/kg	1	BJB1	01/31/08	2351	722516	2
[illegible]ylnaphthalene	U	ND	7.67	38.3	ug/kg	1					
[illegible]phthene	U	ND	12.8	38.3	ug/kg	1					
Acenaphthylene	U	ND	11.5	38.3	ug/kg	1					
Anthracene	U	ND	7.67	38.3	ug/kg	1					
Benzo(a)anthracene	U	ND	11.5	38.3	ug/kg	1					
Benzo(a)pyrene	U	ND	11.5	38.3	ug/kg	1					
Benzo(b)fluoranthene	U	ND	11.5	38.3	ug/kg	1					
Benzo(ghi)perylene	U	ND	11.5	38.3	ug/kg	1					
Benzo(k)fluoranthene	U	ND	11.5	38.3	ug/kg	1					
Chrysene	U	ND	11.5	38.3	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	11.5	38.3	ug/kg	1					
Fluoranthene	U	ND	11.5	38.3	ug/kg	1					
Fluorene	U	ND	11.5	38.3	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	11.5	38.3	ug/kg	1					
Naphthalene	U	ND	11.5	38.3	ug/kg	1					
Phenanthrene	U	ND	11.5	38.3	ug/kg	1					
Pyrene	U	ND	12.0	38.3	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	0.409	1.24	ug/kg	1	DXR1	02/08/08	2343	724727	3
Ethylbenzene	U	ND	0.248	1.24	ug/kg	1					
Toluene	U	ND	0.359	1.24	ug/kg	1					
Xylenes (total)	J	0.931	0.248	1.24	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722679
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/29/08	1355	722062
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/31/08	1256	722515

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
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Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK3119
Sample ID: 201709005

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 5035	5035/8260B Prep			DXR1	01/27/08	2052	724726			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
orobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1390 ug/kg	1920	73	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1730 ug/kg	1920	90	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1580 ug/kg	1920	82	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	81.3 ug/kg	65.0	101	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	109 ug/kg	65.0	135*	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	91.1 ug/kg	65.0	113	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	99.2 ug/kg	65.0	123	(74%-126%)

Notes:
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B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
* Analytical holding time was exceeded

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK3119 Project: SAIC08507
Sample ID: 201709005 Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

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Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK3219	Project:	SAIC08507
Sample ID:	201744001	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	27-JAN-08 08:24		
Receive Date:	28-JAN-08		
Collector:	Client		
Moisture:	11.2%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		14.3	0.110	0.438	mg/kg	2	RMJ	02/02/08	1251	722681	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
[illegible]loronaphthalene	U	ND	13.1	37.5	ug/kg	1	JLD1	01/30/08	1246	722159	2
[illegible]thylnaphthalene	J	9.24	7.50	37.5	ug/kg	1					
Acenaphthene	U	ND	12.5	37.5	ug/kg	1					
Acenaphthylene	U	ND	11.3	37.5	ug/kg	1					
Anthracene	U	ND	7.50	37.5	ug/kg	1					
Benzo(a)anthracene	U	ND	11.3	37.5	ug/kg	1					
Benzo(a)pyrene	U	ND	11.3	37.5	ug/kg	1					
Benzo(b)fluoranthene	U	ND	11.3	37.5	ug/kg	1					
Benzo(ghi)perylene	U	ND	11.3	37.5	ug/kg	1					
Benzo(k)fluoranthene	U	ND	11.3	37.5	ug/kg	1					
Chrysene	J	16.2	11.3	37.5	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	11.3	37.5	ug/kg	1					
Fluoranthene		48.3	11.3	37.5	ug/kg	1					
Fluorene	U	ND	11.3	37.5	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	11.3	37.5	ug/kg	1					
Naphthalene	U	ND	11.3	37.5	ug/kg	1					
Phenanthrene	J	34.1	11.3	37.5	ug/kg	1					
Pyrene	J	28.8	11.8	37.5	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	0.310	0.939	ug/kg	1	DXR1	02/08/08	0514	724727	3
Ethylbenzene	E	644	0.188	0.939	ug/kg	1					
Toluene	E	497	0.272	0.939	ug/kg	1					
Xylenes (total)		1600	0.188	0.939	ug/kg	1					
Benzene	U	ND	29.5	89.4	ug/kg	50	DXR1	02/07/08	0323	724727	4
Ethylbenzene		2390	17.9	89.4	ug/kg	50					
Toluene		1110	25.9	89.4	ug/kg	50					
Xylenes (total)		8810	17.9	89.4	ug/kg	50					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK3219
Sample ID: 201744001

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3050B	ICP-MS 3050BS PREP			BCD1	02/01/08	0945	722679			
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed			AXV1	01/29/08	1910	722158			
SW846 5035	5035/8260B Prep			DXR1	01/29/08	0647	724726			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	
	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1510 ug/kg	1880	81	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1310 ug/kg	1880	70	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1390 ug/kg	1880	74	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	57.4 ug/kg	65.0	94	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	71.0 ug/kg	65.0	116	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	63.4 ug/kg	65.0	104	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	78.9 ug/kg	65.0	129*	(74%-126%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	3470 ug/kg	50.0	78	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4390 ug/kg	50.0	98	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	3670 ug/kg	50.0	82	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	3690 ug/kg	50.0	83	(74%-126%)

Certificate of Analysis

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Oak Ridge, Tennessee 37831

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK3219
Sample ID: 201744001

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Notes:
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B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK3319	Project:	SAIC08507
Sample ID:	201744002	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	27-JAN-08 09:17		
Receive Date:	28-JAN-08		
Collector:	Client		
Moisture:	6.56%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		26.6	0.212	0.849	mg/kg	4	RMJ	02/05/08	0051	722681	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
? loronaphthalene	U	ND	12.5	35.7	ug/kg	1	JLD1	01/30/08	1351	722159	2
hylnaphthalene	J	26.1	7.13	35.7	ug/kg	1					
aphthene	U	ND	11.9	35.7	ug/kg	1					
Acenaphthylene	U	ND	10.7	35.7	ug/kg	1					
Anthracene	U	ND	7.13	35.7	ug/kg	1					
Benzo(a)anthracene	U	ND	10.7	35.7	ug/kg	1					
Benzo(a)pyrene	U	ND	10.7	35.7	ug/kg	1					
Benzo(b)fluoranthene	U	ND	10.7	35.7	ug/kg	1					
Benzo(ghi)perylene	U	ND	10.7	35.7	ug/kg	1					
Benzo(k)fluoranthene	U	ND	10.7	35.7	ug/kg	1					
Chrysene	U	ND	10.7	35.7	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	10.7	35.7	ug/kg	1					
Fluoranthene	J	28.6	10.7	35.7	ug/kg	1					
Fluorene	U	ND	10.7	35.7	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	10.7	35.7	ug/kg	1					
Naphthalene	U	ND	10.7	35.7	ug/kg	1					
Phenanthrene	J	27.3	10.7	35.7	ug/kg	1					
Pyrene	J	18.1	11.2	35.7	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	0.360	1.09	ug/kg	1	DXR1	02/08/08	0319	724727	3
Ethylbenzene		43.8	0.218	1.09	ug/kg	1					
Toluene		38.6	0.317	1.09	ug/kg	1					
Xylenes (total)		141	0.218	1.09	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722679
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	AXV1	01/29/08	1910	722158
SW846 5035	5035/8260B Prep	DXR1	01/29/08	0655	724726

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
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Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK3319
Sample ID: 201744002
Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1430 ug/kg	1780	80	(45%-101%)
,benzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1250 ug/kg	1780	70	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1350 ug/kg	1780	76	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	65.8 ug/kg	65.0	93	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	80.3 ug/kg	65.0	113	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	74.7 ug/kg	65.0	105	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	82.9 ug/kg	65.0	117	(74%-126%)

Notes:
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B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK3319
Sample ID: 201744002

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
Sample results are rejected
Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
U1 Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK3419	Project:	SAIC08507
Sample ID:	201744003	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	27-JAN-08 10:32		
Receive Date:	28-JAN-08		
Collector:	Client		
Moisture:	12%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		32.7	0.227	0.910	mg/kg	4	RMJ	02/05/08	0054	722681	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
[illegible]oronaphthalene	U	ND	13.2	37.8	ug/kg	1	JLD1	01/30/08	1413	722159	2
[illegible]thylnaphthalene		59.6	7.57	37.8	ug/kg	1					
Acenaphthene	U	ND	12.6	37.8	ug/kg	1					
Acenaphthylene	U	ND	11.4	37.8	ug/kg	1					
Anthracene	U	ND	7.57	37.8	ug/kg	1					
Benzo(a)anthracene	U	ND	11.4	37.8	ug/kg	1					
Benzo(a)pyrene	U	ND	11.4	37.8	ug/kg	1					
Benzo(b)fluoranthene	U	ND	11.4	37.8	ug/kg	1					
Benzo(ghi)perylene	U	ND	11.4	37.8	ug/kg	1					
Benzo(k)fluoranthene	U	ND	11.4	37.8	ug/kg	1					
Chrysene	U	ND	11.4	37.8	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	11.4	37.8	ug/kg	1					
Fluoranthene	J	18.8	11.4	37.8	ug/kg	1					
Fluorene	J	29.3	11.4	37.8	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	11.4	37.8	ug/kg	1					
Naphthalene	U	ND	11.4	37.8	ug/kg	1					
Phenanthrene	J	24.0	11.4	37.8	ug/kg	1					
Pyrene	U	ND	11.9	37.8	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	36.8	111	ug/kg	50	DXR1	02/07/08	0420	724727	3
Ethylbenzene		4240	22.3	111	ug/kg	50					
Toluene	E	18000	32.3	111	ug/kg	50					
Xylenes (total)		19600	22.3	111	ug/kg	50					
Benzene	U	ND	73.6	223	ug/kg	100	DXR1	02/08/08	2217	724727	4
Ethylbenzene		5030	44.6	223	ug/kg	100					
Toluene		21200	64.6	223	ug/kg	100					
Xylenes (total)		25000	44.6	223	ug/kg	100					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK3419
Sample ID: 201744003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3050B	ICP-MS 3050BS PREP			BCD1	02/01/08	0945	722679			
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed			AXV1	01/29/08	1910	722158			
SW846 5035	5035/8260B Prep			DXR1	01/29/08	0700	724726			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	
	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1570 ug/kg	1890	83	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1400 ug/kg	1890	74	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1350 ug/kg	1890	71	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4330 ug/kg	50.0	78	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5310 ug/kg	50.0	95	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4510 ug/kg	50.0	81	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4590 ug/kg	50.0	82	(74%-126%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4680 ug/kg	25.0	84	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5710 ug/kg	25.0	103	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4860 ug/kg	25.0	87	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5360 ug/kg	25.0	96	(74%-126%)

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK3419
Sample ID: 201744003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK3519	Project:	SAIC08507
Sample ID:	201744004	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	27-JAN-08 12:56		
Receive Date:	28-JAN-08		
Collector:	Client		
Moisture:	11.4%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3050S/6020 Lead Federal "Dry Weight Corrected"										
Lead		104	0.544	2.18	mg/kg	10	RMJ 02/05/08	0057	722681	1
Semi-volatile Mass spec Organics Federal										
3550/8270 PAH Extend list Soil "Dry Weight Corrected"										
[illegible]loronaphthalene	U	ND	13.2	37.6	ug/kg	1	JLD1 01/30/08	1434	722159	2
[illegible]hylnaphthalene		158	7.52	37.6	ug/kg	1				
[illegible]phthene	U	ND	12.6	37.6	ug/kg	1				
Acenaphthylene	U	ND	11.3	37.6	ug/kg	1				
Anthracene	J	15.3	7.52	37.6	ug/kg	1				
Benzo(a)anthracene	U	ND	11.3	37.6	ug/kg	1				
Benzo(a)pyrene	U	ND	11.3	37.6	ug/kg	1				
Benzo(b)fluoranthene	U	ND	11.3	37.6	ug/kg	1				
Benzo(ghi)perylene	U	ND	11.3	37.6	ug/kg	1				
Benzo(k)fluoranthene	U	ND	11.3	37.6	ug/kg	1				
Chrysene	J	12.2	11.3	37.6	ug/kg	1				
Dibenzo(a,h)anthracene	U	ND	11.3	37.6	ug/kg	1				
Fluoranthene	J	35.4	11.3	37.6	ug/kg	1				
Fluorene		115	11.3	37.6	ug/kg	1				
Indeno(1,2,3-cd)pyrene	U	ND	11.3	37.6	ug/kg	1				
Naphthalene	U	ND	11.3	37.6	ug/kg	1				
Phenanthrene		50.8	11.3	37.6	ug/kg	1				
Pyrene	J	21.7	11.8	37.6	ug/kg	1				
Volatile Organics Federal										
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"										
Benzene	U	ND	39.6	120	ug/kg	50	DXR1 02/08/08	2245	724727	3
Ethylbenzene		2460	24.0	120	ug/kg	50				
Toluene		1380	34.8	120	ug/kg	50				
Xylenes (total)		5350	24.0	120	ug/kg	50				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722679
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	AXV1	01/29/08	1910	722158
SW846 5035	5035/8260B Prep	DXR1	01/29/08	0703	724726

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK3519
Sample ID: 201744004

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1700 ug/kg	1880	91	(45%-101%)
. ɔbenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1540 ug/kg	1880	82	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1660 ug/kg	1880	88	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4800 ug/kg	50.0	80	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5580 ug/kg	50.0	93	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5150 ug/kg	50.0	86	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5390 ug/kg	50.0	90	(74%-126%)

Notes:
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< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK3519
Sample ID: 201744004

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
Sample results are rejected
Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
U1 Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GEL 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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK3619	Project:	SAIC08507
Sample ID:	201709008	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	26-JAN-08 14:58		
Receive Date:	27-JAN-08		
Collector:	Client		
Moisture:	19.3%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3050S/6020 Lead Federal "Dry Weight Corrected"										
Lead		12.4	0.124	0.496	mg/kg	2	RMJ 02/02/08	1246	722681	1
Semi-volatile Mass spec Organics Federal										
3550/8270 PAH Extend list Soil "Dry Weight Corrected"										
[illegible]loronaphthalene	U	ND	14.1	40.3	ug/kg	1	BJB1 02/01/08	0053	722516	2
[illegible]thylnaphthalene		101	8.07	40.3	ug/kg	1				
Acenaphthene		46.0	13.5	40.3	ug/kg	1				
Acenaphthylene	U	ND	12.1	40.3	ug/kg	1				
Anthracene		70.9	8.07	40.3	ug/kg	1				
Benzo(a)anthracene		58.4	12.1	40.3	ug/kg	1				
Benzo(a)pyrene	U	ND	12.1	40.3	ug/kg	1				
Benzo(b)fluoranthene	J	31.1	12.1	40.3	ug/kg	1				
Benzo(ghi)perylene	U	ND	12.1	40.3	ug/kg	1				
Benzo(k)fluoranthene	J	12.5	12.1	40.3	ug/kg	1				
Chrysene	J	30.9	12.1	40.3	ug/kg	1				
Dibenzo(a,h)anthracene	U	ND	12.1	40.3	ug/kg	1				
Fluoranthene		204	12.1	40.3	ug/kg	1				
Fluorene		52.5	12.1	40.3	ug/kg	1				
Indeno(1,2,3-cd)pyrene	U	ND	12.1	40.3	ug/kg	1				
Naphthalene		71.7	12.1	40.3	ug/kg	1				
Phenanthrene		332	12.1	40.3	ug/kg	1				
Pyrene		123	12.7	40.3	ug/kg	1				
Volatile Organics Federal										
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"										
Benzene	U	ND	0.353	1.07	ug/kg	1	DXR1 02/08/08	0416	724727	3
Ethylbenzene	E	536	0.214	1.07	ug/kg	1				
Toluene		9.56	0.310	1.07	ug/kg	1				
Xylenes (total)		1770	0.214	1.07	ug/kg	1				
Benzene	U	ND	37.2	113	ug/kg	50	DXR1 02/07/08	0254	724727	4
Ethylbenzene		608	22.5	113	ug/kg	50				
Toluene	U	ND	32.7	113	ug/kg	50				
Xylenes (total)		2600	22.5	113	ug/kg	50				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK3619
Sample ID: 201709008

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3050B	ICP-MS 3050BS PREP			BCD1	02/01/08	0945	722679			
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed			RXH3	01/29/08	1355	722062			
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed			RXH3	01/31/08	1256	722515			
SW846 5035	5035/8260B Prep			DXR1	01/27/08	2100	724726			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
	SW846 8260B	
	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1330 ug/kg	2020	66	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1820 ug/kg	2020	90	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1440 ug/kg	2020	71	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	64.1 ug/kg	65.0	92	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	82.1 ug/kg	65.0	118	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	72.0 ug/kg	65.0	104	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	88.7 ug/kg	65.0	128*	(74%-126%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5310 ug/kg	50.0	94	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5870 ug/kg	50.0	104	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5490 ug/kg	50.0	97	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5340 ug/kg	50.0	95	(74%-126%)

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK3619 Project: SAIC08507
Sample ID: 201709008 Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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Valerie Davis
Reviewed by

GEL 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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK3713	Project:	SAIC08507
Sample ID:	201709007	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	26-JAN-08 13:57		
Receive Date:	27-JAN-08		
Collector:	Client		
Moisture:	16.4%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3050S/6020 Lead Federal "Dry Weight Corrected"										
Lead		9.37	0.118	0.473	mg/kg	2	RMJ 02/02/08	1241	722681	1
Semi-volatile Mass spec Organics Federal										
3550/8270 PAH Extend list Soil "Dry Weight Corrected"										
2-Chloronaphthalene	U	ND	14.0	39.9	ug/kg	1	BJB1 02/01/08	0032	722516	2
2-Methylnaphthalene	U	ND	7.97	39.9	ug/kg	1				
Acenaphthene	U	ND	13.3	39.9	ug/kg	1				
Acenaphthylene	U	ND	12.0	39.9	ug/kg	1				
Anthracene	U	ND	7.97	39.9	ug/kg	1				
Benzo(a)anthracene	U	ND	12.0	39.9	ug/kg	1				
Benzo(a)pyrene	U	ND	12.0	39.9	ug/kg	1				
Benzo(b)fluoranthene	U	ND	12.0	39.9	ug/kg	1				
Benzo(ghi)perylene	U	ND	12.0	39.9	ug/kg	1				
Benzo(k)fluoranthene	U	ND	12.0	39.9	ug/kg	1				
Chrysene	U	ND	12.0	39.9	ug/kg	1				
Dibenzo(a,h)anthracene	U	ND	12.0	39.9	ug/kg	1				
Fluoranthene	U	ND	12.0	39.9	ug/kg	1				
Fluorene	U	ND	12.0	39.9	ug/kg	1				
Indeno(1,2,3-cd)pyrene	U	ND	12.0	39.9	ug/kg	1				
Naphthalene	U	ND	12.0	39.9	ug/kg	1				
Phenanthrene	U	ND	12.0	39.9	ug/kg	1				
Pyrene	U	ND	12.5	39.9	ug/kg	1				
Volatile Organics Federal										
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"										
Benzene	U	ND	0.340	1.03	ug/kg	1	DXR1 02/09/08	0041	724727	3
Ethylbenzene	U	ND	0.206	1.03	ug/kg	1				
Toluene	U	ND	0.299	1.03	ug/kg	1				
Xylenes (total)	J	0.326	0.206	1.03	ug/kg	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722679
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/29/08	1355	722062
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/31/08	1256	722515

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK3713
Sample ID: 201709007

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 5035	5035/8260B Prep			DXR1	01/27/08	2104	724726			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
orobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1510 ug/kg	1990	76	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1950 ug/kg	1990	98	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1500 ug/kg	1990	75	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	73.2 ug/kg	65.0	109	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	79.1 ug/kg	65.0	118	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	78.7 ug/kg	65.0	117	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	82.6 ug/kg	65.0	123	(74%-126%)

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

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< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
' Analytical holding time was exceeded

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK3713
Sample ID: 201709007

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also
Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK3719	Project:	SAIC08507
Sample ID:	201709006	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	26-JAN-08 13:57		
Receive Date:	27-JAN-08		
Collector:	Client		
Moisture:	16.9%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3050S/6020 Lead Federal "Dry Weight Corrected"										
Lead		9.62	0.116	0.464	mg/kg	2	RMJ 02/02/08	1236	722681	1
Semi-volatile Mass spec Organics Federal										
3550/8270 PAH Extend list Soil "Dry Weight Corrected"										
? loronaphthalene	U	ND	13.9	39.6	ug/kg	1	BJB1 02/01/08	0012	722516	2
. thylnaphthalene	U	ND	7.92	39.6	ug/kg	1				
Acenaphthene	U	ND	13.2	39.6	ug/kg	1				
Acenaphthylene	U	ND	11.9	39.6	ug/kg	1				
Anthracene	U	ND	7.92	39.6	ug/kg	1				
Benzo(a)anthracene	U	ND	11.9	39.6	ug/kg	1				
Benzo(a)pyrene	U	ND	11.9	39.6	ug/kg	1				
Benzo(b)fluoranthene	U	ND	11.9	39.6	ug/kg	1				
Benzo(ghi)perylene	U	ND	11.9	39.6	ug/kg	1				
Benzo(k)fluoranthene	U	ND	11.9	39.6	ug/kg	1				
Chrysene	U	ND	11.9	39.6	ug/kg	1				
Dibenzo(a,h)anthracene	U	ND	11.9	39.6	ug/kg	1				
Fluoranthene	U	ND	11.9	39.6	ug/kg	1				
Fluorene	U	ND	11.9	39.6	ug/kg	1				
Indeno(1,2,3-cd)pyrene	U	ND	11.9	39.6	ug/kg	1				
Naphthalene	U	ND	11.9	39.6	ug/kg	1				
Phenanthrene	U	ND	11.9	39.6	ug/kg	1				
Pyrene	U	ND	12.4	39.6	ug/kg	1				
Volatile Organics Federal										
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"										
Benzene	U	ND	0.342	1.04	ug/kg	1	DXR1 02/09/08	0012	724727	3
Ethylbenzene	U	ND	0.207	1.04	ug/kg	1				
Toluene	U	ND	0.301	1.04	ug/kg	1				
Xylenes (total)	J	0.511	0.207	1.04	ug/kg	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722679
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/29/08	1355	722062
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/31/08	1256	722515

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK3719
Sample ID: 201709006

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 5035	5035/8260B Prep			DXR1	01/27/08	2110	724726			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
›robiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1430 ug/kg	1980	72	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1750 ug/kg	1980	88	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1530 ug/kg	1980	77	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	69.9 ug/kg	65.0	104	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	83.7 ug/kg	65.0	124	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	76.0 ug/kg	65.0	113	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	80.3 ug/kg	65.0	119	(74%-126%)

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

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< Result is less than value reported
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A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
Y Analytical holding time was exceeded

GEL 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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK3719
Sample ID: 201709006

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also %
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour

Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID:	AK3819	Project:	SAIC007202
Sample ID:	201086004	Client ID:	SAIC072
Matrix:	Soil		
Collect Date:	16-JAN-08 12:37		
Receive Date:	17-JAN-08		
Collector:	Client		
Moisture:	14.1%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP											
3050S/6010 Lead Federal "Dry Weight Corrected"											
Lead		2190	290	1160	ug/kg	1	HSC	01/24/08	1700	719251	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
2-Chloronaphthalene	U	ND	13.2	37.6	ug/kg	1	AGS1	01/19/08	0304	719185	2
2-Methylnaphthalene	U	ND	7.52	37.6	ug/kg	1					
Acenaphthene	U	ND	12.6	37.6	ug/kg	1					
Acenaphthylene	U	ND	11.3	37.6	ug/kg	1					
Anthracene	U	ND	7.52	37.6	ug/kg	1					
Benzo(a)anthracene	U	ND	11.3	37.6	ug/kg	1					
Benzo(a)pyrene	U	ND	11.3	37.6	ug/kg	1					
Benzo(b)fluoranthene	U	ND	11.3	37.6	ug/kg	1					
Benzo(ghi)perylene	U	ND	11.3	37.6	ug/kg	1					
Benzo(k)fluoranthene	U	ND	11.3	37.6	ug/kg	1					
Chrysene	U	ND	11.3	37.6	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	11.3	37.6	ug/kg	1					
Fluoranthene	U	ND	11.3	37.6	ug/kg	1					
Fluorene	U	ND	11.3	37.6	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	11.3	37.6	ug/kg	1					
Naphthalene	U	ND	11.3	37.6	ug/kg	1					
Phenanthrene	U	ND	11.3	37.6	ug/kg	1					
Pyrene	U	ND	11.8	37.6	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	0.384	1.16	ug/kg	1	ACJ	01/29/08	1745	721963	3
Ethylbenzene		13.3	0.233	1.16	ug/kg	1					
Toluene		2.08	0.337	1.16	ug/kg	1					
Xylenes (total)		37.1	0.233	1.16	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	846 3050BS PREP	FGA	01/23/08	1300	719250
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/18/08	1558	719184
SW846 5035	5035/8260B Prep	ACJ	01/15/08	1217	721962

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK3819
Sample ID: 201086004

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6010B	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1370 ug/kg	1880	73	(45%-101%)
. obenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1700 ug/kg	1880	90	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1530 ug/kg	1880	81	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	43.2 ug/kg	40.0	93	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	40.2 ug/kg	40.0	86	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	47.2 ug/kg	40.0	101	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	47.8 ug/kg	40.0	103	(74%-126%)

Notes:
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B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK3819
Sample ID: 201086004

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also >40%
Sample results are rejected
Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour

Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID:	AK3919	Project:	SAIC007202
Sample ID:	201086005	Client ID:	SAIC072
Matrix:	Soil		
Collect Date:	16-JAN-08 13:27		
Receive Date:	17-JAN-08		
Collector:	Client		
Moisture:	15.9%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP											
3050S/6010 Lead Federal "Dry Weight Corrected"											
Lead		10700	289	1150	ug/kg	1	HSC	01/24/08	1706	719251	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
' 'loronaphthalene	U	ND	13.9	39.6	ug/kg	1	AGS1	01/19/08	0326	719185	2
:thylnaphthalene	J	19.2	7.92	39.6	ug/kg	1					
Acenaphthene	U	ND	13.2	39.6	ug/kg	1					
Acenaphthylene	U	ND	11.9	39.6	ug/kg	1					
Anthracene	U	ND	7.92	39.6	ug/kg	1					
Benzo(a)anthracene	U	ND	11.9	39.6	ug/kg	1					
Benzo(a)pyrene	U	ND	11.9	39.6	ug/kg	1					
Benzo(b)fluoranthene	U	ND	11.9	39.6	ug/kg	1					
Benzo(ghi)perylene	U	ND	11.9	39.6	ug/kg	1					
Benzo(k)fluoranthene	U	ND	11.9	39.6	ug/kg	1					
Chrysene	U	ND	11.9	39.6	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	11.9	39.6	ug/kg	1					
Fluoranthene	U	ND	11.9	39.6	ug/kg	1					
Fluorene	U	ND	11.9	39.6	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	11.9	39.6	ug/kg	1					
Naphthalene	U	ND	11.9	39.6	ug/kg	1					
Phenanthrene	J	23.5	11.9	39.6	ug/kg	1					
Pyrene	J	18.5	12.4	39.6	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	164	496	ug/kg	250	ACJ	01/28/08	2134	721963	3
Ethylbenzene		11900	99.1	496	ug/kg	250					
Toluene		22500	144	496	ug/kg	250					
Xylenes (total)		55600	99.1	496	ug/kg	250					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	846 3050BS PREP	FGA	01/23/08	1300	719250
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/18/08	1558	719184
SW846 5035	5035/8260B Prep	ACJ	01/15/08	1221	721962

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK3919
Sample ID: 201086005

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6010B	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1410 ug/kg	1980	71	(45%-101%)
benzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1820 ug/kg	1980	92	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1540 ug/kg	1980	78	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4580 ug/kg	10.0	92	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4060 ug/kg	10.0	82	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	3740 ug/kg	10.0	75	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4270 ug/kg	10.0	86	(74%-126%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK3919
Sample ID: 201086005

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also >40%
Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK4019	Project:	SAIC08507
Sample ID:	201540007	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	23-JAN-08 16:03		
Receive Date:	24-JAN-08		
Collector:	Client		
Moisture:	17.6%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"										
Benzene		6.55	0.358	1.08	ug/kg	1	RXY1 02/04/08	1910	723846	1
Ethylbenzene	E	193	0.217	1.08	ug/kg	1				
Toluene		23.6	0.314	1.08	ug/kg	1				
Xylenes (total)	E	733	0.217	1.08	ug/kg	1				
[illegible]ene	U	ND	37.1	112	ug/kg	50	RXY1 02/06/08	1652	723846	2
[illegible]enzene		567	22.5	112	ug/kg	50				
Toluene	J	55.4	32.6	112	ug/kg	50				
Xylenes (total)		3220	22.5	112	ug/kg	50				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035/8260B Prep	RXY1	01/25/08	0852	723844

The following Analytical Methods were performed

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

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	75.1 ug/kg	65.0	107	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	75.1 ug/kg	65.0	107	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	79.6 ug/kg	65.0	113	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	80.4 ug/kg	65.0	114	(74%-126%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	5070 ug/kg	50.0	90	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4900 ug/kg	50.0	87	(66%-128%)

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK4019
Sample ID: 201540007

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dibromofluoromethane		5035/8260B BTEX in Solid Federal "Dry Weight Corrected"		5180	ug/kg	50.0	92		(71%-120%)	
Toluene-d8		5035/8260B BTEX in Solid Federal "Dry Weight Corrected"		4680	ug/kg	50.0	83		(74%-126%)	

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

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< Result is less than value reported
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The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK4019
Sample ID: 201540007

Project: SAIC08507
Client ID: SAIC085

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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis

Reviewed by

GEL 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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID:	AK4019	Project:	SAIC08507
Sample ID:	201683010	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	23-JAN-08 16:03		
Receive Date:	25-JAN-08		
Collector:	Client		
Moisture:	17.6%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3050S/6020 Lead Federal "Dry Weight Corrected"										
Lead		37.3	0.121	0.486	mg/kg	2	BAJ 02/05/08	0309	722670	1
Semi-volatile Mass spec Organics Federal										
3550/8270 PAH Extend list Soil "Dry Weight Corrected"										
[illegible]loronaphthalene	U	ND	14.1	40.4	ug/kg	1	JLD1 01/29/08	1730	721999	2
[illegible]thylnaphthalene	B	198	8.08	40.4	ug/kg	1				
Acenaphthene	J	24.3	13.5	40.4	ug/kg	1				
Acenaphthylene	U	ND	12.1	40.4	ug/kg	1				
Anthracene	J	20.9	8.08	40.4	ug/kg	1				
Benzo(a)anthracene	U	ND	12.1	40.4	ug/kg	1				
Benzo(a)pyrene	U	ND	12.1	40.4	ug/kg	1				
Benzo(b)fluoranthene	U	ND	12.1	40.4	ug/kg	1				
Benzo(ghi)perylene	U	ND	12.1	40.4	ug/kg	1				
Benzo(k)fluoranthene	U	ND	12.1	40.4	ug/kg	1				
Chrysene	U	ND	12.1	40.4	ug/kg	1				
Dibenzo(a,h)anthracene	U	ND	12.1	40.4	ug/kg	1				
Fluoranthene		109	12.1	40.4	ug/kg	1				
Fluorene	J	30.8	12.1	40.4	ug/kg	1				
Indeno(1,2,3-cd)pyrene	U	ND	12.1	40.4	ug/kg	1				
Naphthalene	U	ND	12.1	40.4	ug/kg	1				
Phenanthrene		121	12.1	40.4	ug/kg	1				
Pyrene		81.5	12.7	40.4	ug/kg	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722668
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	AXV1	01/28/08	1937	721997

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK4019
Sample ID: 201683010

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1720 ug/kg	2020	85	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1580 ug/kg	2020	78	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1700 ug/kg	2020	84	(41%-114%)

Notes:
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B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK4019
Sample ID: 201683010

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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Valerie Davis
/iewed by

GEL 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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK4119	Project:	SAIC08507
Sample ID:	201744005	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	27-JAN-08 13:46		
Receive Date:	28-JAN-08		
Collector:	Client		
Moisture:	11%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3050S/6020 Lead Federal "Dry Weight Corrected"										
Lead		127	1.08	4.31	mg/kg	20	RMJ 02/05/08	0100	722681	1
Semi-volatile Mass spec Organics Federal										
3550/8270 PAH Extend list Soil "Dry Weight Corrected"										
[illegible]loronaphthalene	U	ND	13.1	37.5	ug/kg	1	JLD1 01/30/08	1456	722159	2
[illegible]ylnaphthalene		241	7.49	37.5	ug/kg	1				
A[illegible]aphthene		40.7	12.5	37.5	ug/kg	1				
Acenaphthylene	U	ND	11.2	37.5	ug/kg	1				
Anthracene		54.8	7.49	37.5	ug/kg	1				
Benzo(a)anthracene		52.9	11.2	37.5	ug/kg	1				
Benzo(a)pyrene	J	16.9	11.2	37.5	ug/kg	1				
Benzo(b)fluoranthene	J	28.4	11.2	37.5	ug/kg	1				
Benzo(ghi)perylene	U	ND	11.2	37.5	ug/kg	1				
Benzo(k)fluoranthene	U	ND	11.2	37.5	ug/kg	1				
Chrysene		39.2	11.2	37.5	ug/kg	1				
Dibenzo(a,h)anthracene	U	ND	11.2	37.5	ug/kg	1				
Fluoranthene		210	11.2	37.5	ug/kg	1				
Fluorene		49.1	11.2	37.5	ug/kg	1				
Indeno(1,2,3-cd)pyrene	U	ND	11.2	37.5	ug/kg	1				
Naphthalene		117	11.2	37.5	ug/kg	1				
Phenanthrene		237	11.2	37.5	ug/kg	1				
Pyrene		143	11.8	37.5	ug/kg	1				
Volatile Organics Federal										
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"										
Benzene	U	ND	33.1	100	ug/kg	50	GRB2 02/10/08	2207	724727	3
Ethylbenzene		9900	20.1	100	ug/kg	50				
Toluene		119	29.1	100	ug/kg	50				
Xylenes (total)		48800	20.1	100	ug/kg	50				
Benzene	U	ND	166	502	ug/kg	250	DXR1 02/08/08	2148	724727	4
Ethylbenzene		11000	100	502	ug/kg	250				
Toluene	J	164	145	502	ug/kg	250				
Xylenes (total)		67800	100	502	ug/kg	250				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK4119
Sample ID: 201744005

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3050B	ICP-MS 3050BS PREP			BCD1	02/01/08	0945	722679			
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed			AXV1	01/29/08	1910	722158			
SW846 5035	5035/8260B Prep			DXR1	01/29/08	0709	724726			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	
	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1620 ug/kg	1870	87	(45%-101%)
Nitrobenzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1450 ug/kg	1870	77	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1540 ug/kg	1870	82	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	3880 ug/kg	50.0	77	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4130 ug/kg	50.0	82	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	3910 ug/kg	50.0	78	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	3830 ug/kg	50.0	76	(74%-126%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	3510 ug/kg	10.0	70	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	3750 ug/kg	10.0	75	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	3570 ug/kg	10.0	71	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	4450 ug/kg	10.0	89	(74%-126%)

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK4119
Sample ID: 201744005

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Notes:
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> Result is greater than value reported
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B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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Valerie Davis
Reviewed by

GEL 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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK4219	Project:	SAIC08507
Sample ID:	201744006	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	27-JAN-08 14:37		
Receive Date:	28-JAN-08		
Collector:	Client		
Moisture:	13.7%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		7.25	0.116	0.463	mg/kg	2	RMJ	02/02/08	1327	722681	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
[illegible]loronaphthalene	U	ND	13.5	38.5	ug/kg	1	JLD1	01/30/08	1517	722159	2
[illegible]thylnaphthalene	U	ND	7.70	38.5	ug/kg	1					
Acenaphthene	U	ND	12.9	38.5	ug/kg	1					
Acenaphthylene	U	ND	11.5	38.5	ug/kg	1					
Anthracene	U	ND	7.70	38.5	ug/kg	1					
Benzo(a)anthracene	U	ND	11.5	38.5	ug/kg	1					
Benzo(a)pyrene	U	ND	11.5	38.5	ug/kg	1					
Benzo(b)fluoranthene	U	ND	11.5	38.5	ug/kg	1					
Benzo(ghi)perylene	U	ND	11.5	38.5	ug/kg	1					
Benzo(k)fluoranthene	U	ND	11.5	38.5	ug/kg	1					
Chrysene	U	ND	11.5	38.5	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	11.5	38.5	ug/kg	1					
Fluoranthene	U	ND	11.5	38.5	ug/kg	1					
Fluorene	U	ND	11.5	38.5	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	11.5	38.5	ug/kg	1					
Naphthalene	U	ND	11.5	38.5	ug/kg	1					
Phenanthrene	U	ND	11.5	38.5	ug/kg	1					
Pyrene	U	ND	12.1	38.5	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	0.354	1.07	ug/kg	1	DXR1	02/08/08	0348	724727	3
Ethylbenzene		15.9	0.215	1.07	ug/kg	1					
Toluene	J	0.474	0.311	1.07	ug/kg	1					
Xylenes (total)		127	0.215	1.07	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722679
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	AXV1	01/29/08	1910	722158
SW846 5035	5035/8260B Prep	DXR1	01/29/08	0712	724726

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK4219
Sample ID: 201744006

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1580 ug/kg	1920	82	(45%-101%)
enzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1440 ug/kg	1920	75	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1510 ug/kg	1920	78	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	68.6 ug/kg	65.0	98	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	81.1 ug/kg	65.0	116	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	77.3 ug/kg	65.0	111	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	76.8 ug/kg	65.0	110	(74%-126%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK4219 Project: SAIC08507
Sample ID: 201744006 Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK4319	Project:	SAIC08507
Sample ID:	201810001	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	28-JAN-08 08:05		
Receive Date:	29-JAN-08		
Collector:	Client		
Moisture:	9.88%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3050S/6020 Lead Federal "Dry Weight Corrected"										
Lead		2.36	0.106	0.423	mg/kg	2	RMJ 02/02/08	1333	722681	1
Semi-volatile Mass spec Organics Federal										
3550/8270 PAH Extend list Soil "Dry Weight Corrected"										
[illegible]loronaphthalene	U	ND	12.8	36.7	ug/kg	1	JMB3 01/30/08	1511	722395	2
[illegible]ylnaphthalene	U	ND	7.34	36.7	ug/kg	1				
A[illegible]aphthene	U	ND	12.3	36.7	ug/kg	1				
Acenaphthylene	U	ND	11.0	36.7	ug/kg	1				
Anthracene	U	ND	7.34	36.7	ug/kg	1				
Benzo(a)anthracene	U	ND	11.0	36.7	ug/kg	1				
Benzo(a)pyrene	U	ND	11.0	36.7	ug/kg	1				
Benzo(b)fluoranthene	U	ND	11.0	36.7	ug/kg	1				
Benzo(ghi)perylene	U	ND	11.0	36.7	ug/kg	1				
Benzo(k)fluoranthene	U	ND	11.0	36.7	ug/kg	1				
Chrysene	U	ND	11.0	36.7	ug/kg	1				
Dibenzo(a,h)anthracene	U	ND	11.0	36.7	ug/kg	1				
Fluoranthene	U	ND	11.0	36.7	ug/kg	1				
Fluorene	U	ND	11.0	36.7	ug/kg	1				
Indeno(1,2,3-cd)pyrene	U	ND	11.0	36.7	ug/kg	1				
Naphthalene	U	ND	11.0	36.7	ug/kg	1				
Phenanthrene	U	ND	11.0	36.7	ug/kg	1				
Pyrene	U	ND	11.5	36.7	ug/kg	1				
Volatile Organics Federal										
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"										
Benzene	U	ND	0.359	1.09	ug/kg	1	DXR1 02/07/08	2259	724730	3
Ethylbenzene	U	ND	0.218	1.09	ug/kg	1				
Toluene	U	ND	0.315	1.09	ug/kg	1				
Xylenes (total)	J	0.613	0.218	1.09	ug/kg	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722679
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/30/08	1227	722394
SW846 5035	5035/8260B Prep	DXR1	01/30/08	0714	724729

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK4319
Sample ID: 201810001

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1530 ug/kg	1830	83	(45%-101%)
,benzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1360 ug/kg	1830	74	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1310 ug/kg	1830	72	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	69.3 ug/kg	65.0	98	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	84.9 ug/kg	65.0	120	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	77.3 ug/kg	65.0	109	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	83.2 ug/kg	65.0	118	(74%-126%)

Notes:
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B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK4319
Sample ID: 201810001

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also >70%
Sample results are rejected
Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GEL 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: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK4419	Project:	SAIC08507
Sample ID:	201810002	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	28-JAN-08 09:12		
Receive Date:	29-JAN-08		
Collector:	Client		
Moisture:	6.91%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3050S/6020 Lead Federal "Dry Weight Corrected"											
Lead		1.22	0.102	0.409	mg/kg	2	RMJ	02/02/08	1338	722681	1
Semi-volatile Mass spec Organics Federal											
3550/8270 PAH Extend list Soil "Dry Weight Corrected"											
[illegible]loronaphthalene	U	ND	12.3	35.3	ug/kg	1	JMB3	01/30/08	1607	722395	2
[illegible]thylnaphthalene	U	ND	7.05	35.3	ug/kg	1					
Acenaphthene	U	ND	11.8	35.3	ug/kg	1					
Acenaphthylene	U	ND	10.6	35.3	ug/kg	1					
Anthracene	U	ND	7.05	35.3	ug/kg	1					
Benzo(a)anthracene	U	ND	10.6	35.3	ug/kg	1					
Benzo(a)pyrene	U	ND	10.6	35.3	ug/kg	1					
Benzo(b)fluoranthene	U	ND	10.6	35.3	ug/kg	1					
Benzo(ghi)perylene	U	ND	10.6	35.3	ug/kg	1					
Benzo(k)fluoranthene	U	ND	10.6	35.3	ug/kg	1					
Chrysene	U	ND	10.6	35.3	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	10.6	35.3	ug/kg	1					
Fluoranthene	U	ND	10.6	35.3	ug/kg	1					
Fluorene	U	ND	10.6	35.3	ug/kg	1					
Indeno(1,2,3-cd)pyrene	U	ND	10.6	35.3	ug/kg	1					
Naphthalene	U	ND	10.6	35.3	ug/kg	1					
Phenanthrene	U	ND	10.6	35.3	ug/kg	1					
Pyrene	U	ND	11.1	35.3	ug/kg	1					
Volatile Organics Federal											
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"											
Benzene	U	ND	0.362	1.10	ug/kg	1	DXR1	02/08/08	2314	724730	3
Ethylbenzene	U	ND	0.219	1.10	ug/kg	1					
Toluene	U	ND	0.318	1.10	ug/kg	1					
Xylenes (total)	J	0.724	0.219	1.10	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722679
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/30/08	1227	722394
SW846 5035	5035/8260B Prep	DXR1	01/30/08	0716	724729

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK4419
Sample ID: 201810002

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1510 ug/kg	1760	86	(45%-101%)
enzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1320 ug/kg	1760	75	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1280 ug/kg	1760	73	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	70.0 ug/kg	65.0	98	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	91.2 ug/kg	65.0	128	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	80.4 ug/kg	65.0	113	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	93.8 ug/kg	65.0	132*	(74%-126%)

Notes:
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B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK4419 Project: SAIC08507
Sample ID: 201810002 Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also >40%
Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK4519	Project:	SAIC08507
Sample ID:	201810003	Client ID:	SAIC085
Matrix:	Soil		
Collect Date:	28-JAN-08 10:40		
Receive Date:	29-JAN-08		
Collector:	Client		
Moisture:	13.7%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3050S/6020 Lead Federal "Dry Weight Corrected"										
Lead		6.91	0.115	0.461	mg/kg	2	RMJ 02/02/08	1343	722681	1
Semi-volatile Mass spec Organics Federal										
3550/8270 PAH Extend list Soil "Dry Weight Corrected"										
[illegible]loronaphthalene	U	ND	13.1	37.5	ug/kg	1	JMB3 01/30/08	1626	722395	2
[illegible]ylnaphthalene	J	11.0	7.50	37.5	ug/kg	1				
A[illegible]aphthene	U	ND	12.5	37.5	ug/kg	1				
Acenaphthylene		201	11.2	37.5	ug/kg	1				
Anthracene	U	ND	7.50	37.5	ug/kg	1				
Benzo(a)anthracene		914	11.2	37.5	ug/kg	1				
Benzo(a)pyrene		656	11.2	37.5	ug/kg	1				
Benzo(b)fluoranthene		965	11.2	37.5	ug/kg	1				
Benzo(ghi)perylene		431	11.2	37.5	ug/kg	1				
Benzo(k)fluoranthene	U	ND	11.2	37.5	ug/kg	1				
Chrysene		1030	11.2	37.5	ug/kg	1				
Dibenzo(a,h)anthracene		175	11.2	37.5	ug/kg	1				
Fluoranthene		946	11.2	37.5	ug/kg	1				
Fluorene	U	ND	11.2	37.5	ug/kg	1				
Indeno(1,2,3-cd)pyrene		351	11.2	37.5	ug/kg	1				
Naphthalene	U	ND	11.2	37.5	ug/kg	1				
Phenanthrene	U	ND	11.2	37.5	ug/kg	1				
Pyrene		1830	11.8	37.5	ug/kg	1				
Volatile Organics Federal										
5035/8260B BTEX in Solid Federal "Dry Weight Corrected"										
Benzene	U	ND	0.354	1.07	ug/kg	1	DXR1 02/07/08	2356	724730	3
Ethylbenzene	U	ND	0.215	1.07	ug/kg	1				
Toluene	J	0.454	0.311	1.07	ug/kg	1				
Xylenes (total)	J	0.854	0.215	1.07	ug/kg	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	BCD1	02/01/08	0945	722679
SW846 3550B	3550B BNA Soil Prep-8270 Analysis Fed	RXH3	01/30/08	1227	722394
SW846 5035	5035/8260B Prep	DXR1	01/30/08	0721	724729

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK4519
Sample ID: 201810003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3050B/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1280 ug/kg	1870	69	(45%-101%)
›benzene-d5	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1090 ug/kg	1870	58	(45%-101%)
p-Terphenyl-d14	3550/8270 PAH Extend list Soil "Dry Weight Corrected"	1230 ug/kg	1870	66	(41%-114%)
1,2-Dichloroethane-d4	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	75.9 ug/kg	65.0	109	(63%-120%)
Bromofluorobenzene	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	88.1 ug/kg	65.0	126	(66%-128%)
Dibromofluoromethane	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	82.1 ug/kg	65.0	118	(71%-120%)
Toluene-d8	5035/8260B BTEX in Solid Federal "Dry Weight Corrected"	86.8 ug/kg	65.0	124	(74%-126%)

Notes:
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** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD Results are either below the MDC or tracer recovery is low
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK4519
Sample ID: 201810003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M M if above MDC and less than LLD
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also >70%
[illegible] Sample results are rejected
[illegible] Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
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This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis

Reviewed by

PUMPHOUSE #1, RELEASE #1
DPT GROUNDWATER SAMPLING
JANUARY 2008

08-070(E)/020909

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK0118
Sample ID: 201112005
Matrix: Water
Collect Date: 15-JAN-08 12:25
Receive Date: 17-JAN-08
Collector: Client

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		2.42	0.500	2.00	ug/L	1	RMJ	01/23/08	0235	719260	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.376	1.08	ug/L	1	RMB	01/21/08	1312	719340	2
2 ` ethylnaphthalene	U	ND	0.323	1.08	ug/L	1					
aphthene	U	ND	0.333	1.08	ug/L	1					
Acenaphthylene	U	ND	0.215	1.08	ug/L	1					
Anthracene	U	ND	0.215	1.08	ug/L	1					
Benzo(a)anthracene	U	ND	0.215	1.08	ug/L	1					
Benzo(a)pyrene	U	ND	0.215	1.08	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.215	1.08	ug/L	1					
Benzo(ghi)perylene	U	ND	0.215	1.08	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.215	1.08	ug/L	1					
Chrysene	U	ND	0.215	1.08	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.215	1.08	ug/L	1					
Fluoranthene	U	ND	0.215	1.08	ug/L	1					
Fluorene	U	ND	0.215	1.08	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.215	1.08	ug/L	1					
Naphthalene	U	ND	0.323	1.08	ug/L	1					
Phenanthrene	U	ND	0.215	1.08	ug/L	1					
Pyrene	U	ND	0.323	1.08	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene	U	ND	0.300	1.00	ug/L	1	CDS1	01/26/08	2120	720957	3
Ethylbenzene	J	0.754	0.250	1.00	ug/L	1					
Toluene		1.63	0.250	1.00	ug/L	1					
Xylenes (total)		3.35	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	01/21/08	1857	719259
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	SXL3	01/18/08	1728	719339

The following Analytical Methods were performed

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID: AK0118
Sample ID: 201112005

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	42.3 ug/L	53.8	79	(41%-99%)
enzene-d5	3510/8270 PAH Extend list Liquid "As Received"	39.8 ug/L	53.8	74	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	45.7 ug/L	53.8	85	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	63.0 ug/L	60.0	105	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	62.4 ug/L	60.0	104	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	66.1 ug/L	60.0	110	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	65.6 ug/L	60.0	109	(84%-121%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID: AK0118 Project: SAIC007202
Sample ID: 201112005 Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
" Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour

Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID: AK0214
Sample ID: 201112009
Matrix: Water
Collect Date: 15-JAN-08 13:34
Receive Date: 17-JAN-08
Collector: Client

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		40.7	0.500	2.00	ug/L	1	RMJ	01/23/08	0322	719260	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.368	1.05	ug/L	1	RMB	01/21/08	1520	719340	2
2-Methylnaphthalene	J	1.02	0.316	1.05	ug/L	1					
Acenaphthene	U	ND	0.326	1.05	ug/L	1					
Acenaphthylene	U	ND	0.211	1.05	ug/L	1					
Anthracene	U	ND	0.211	1.05	ug/L	1					
Benzo(a)anthracene	U	ND	0.211	1.05	ug/L	1					
Benzo(a)pyrene	U	ND	0.211	1.05	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.211	1.05	ug/L	1					
Benzo(ghi)perylene	U	ND	0.211	1.05	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.211	1.05	ug/L	1					
Chrysene	U	ND	0.211	1.05	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.211	1.05	ug/L	1					
Fluoranthene	U	ND	0.211	1.05	ug/L	1					
Fluorene	U	ND	0.211	1.05	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.211	1.05	ug/L	1					
Naphthalene		3.46	0.316	1.05	ug/L	1					
Phenanthrene	U	ND	0.211	1.05	ug/L	1					
Pyrene	U	ND	0.316	1.05	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene	J	0.999	0.300	1.00	ug/L	1	CDS1	01/27/08	0410	720957	3
Ethylbenzene	E	136	0.250	1.00	ug/L	1					
Toluene	E	115	0.250	1.00	ug/L	1					
Xylenes (total)		456	0.250	1.00	ug/L	1					
Benzene	U	ND	1.50	5.00	ug/L	5	CDS1	01/27/08	0141	720957	4
Ethylbenzene		150	1.25	5.00	ug/L	5					
Toluene		122	1.25	5.00	ug/L	5					
Xylenes (total)		496	1.25	5.00	ug/L	5					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	01/21/08	1857	719259

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK0214
Sample ID: 201112009

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			SXL3	01/18/08	1728	719339			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

ogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	45.7 ug/L	52.6	87	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	43.9 ug/L	52.6	83	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	48.0 ug/L	52.6	91	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	66.0 ug/L	60.0	110	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	61.9 ug/L	60.0	103	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	67.6 ug/L	60.0	113	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	64.2 ug/L	60.0	107	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	319 ug/L	60.0	106	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	304 ug/L	60.0	101	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	327 ug/L	60.0	109	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	316 ug/L	60.0	105	(84%-121%)

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

Analyte is a surrogate compound

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK0214
Sample ID: 201112009

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
F Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GEL 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: April 9, 2008

Contact: Leslie Barbour
Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID: AK0218
Sample ID: 201112006
Matrix: Water
Collect Date: 15-JAN-08 13:34
Receive Date: 17-JAN-08
Collector: Client

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		39.7	0.500	2.00	ug/L	1	RMJ	01/23/08	0306	719260	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.357	1.02	ug/L	1	RMB	01/21/08	1416	719340	2
2-Methylnaphthalene	J	0.882	0.306	1.02	ug/L	1					
Acenaphthene	U	ND	0.316	1.02	ug/L	1					
Acenaphthylene	U	ND	0.204	1.02	ug/L	1					
Anthracene	U	ND	0.204	1.02	ug/L	1					
Benzo(a)anthracene	U	ND	0.204	1.02	ug/L	1					
Benzo(a)pyrene	U	ND	0.204	1.02	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.204	1.02	ug/L	1					
Benzo(ghi)perylene	U	ND	0.204	1.02	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.204	1.02	ug/L	1					
Chrysene	U	ND	0.204	1.02	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.204	1.02	ug/L	1					
Fluoranthene	U	ND	0.204	1.02	ug/L	1					
Fluorene	U	ND	0.204	1.02	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.204	1.02	ug/L	1					
Naphthalene		2.76	0.306	1.02	ug/L	1					
Phenanthrene	U	ND	0.204	1.02	ug/L	1					
Pyrene	U	ND	0.306	1.02	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene	J	0.959	0.300	1.00	ug/L	1	CDS1	01/27/08	0340	720957	3
Ethylbenzene	E	136	0.250	1.00	ug/L	1					
Toluene	E	124	0.250	1.00	ug/L	1					
Xylenes (total)		459	0.250	1.00	ug/L	1					
Benzene	U	ND	1.50	5.00	ug/L	5	CDS1	01/27/08	0113	720957	4
Ethylbenzene		159	1.25	5.00	ug/L	5					
Toluene		141	1.25	5.00	ug/L	5					
Xylenes (total)		535	1.25	5.00	ug/L	5					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	01/21/08	1857	719259

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour

Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID: AK0218
Sample ID: 201112006

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			SXL3	01/18/08	1728	719339			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

ogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
orobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	36.2 ug/L	51.0	71	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	38.2 ug/L	51.0	75	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	37.6 ug/L	51.0	74	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	64.1 ug/L	60.0	107	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	62.3 ug/L	60.0	104	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	66.3 ug/L	60.0	110	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	64.1 ug/L	60.0	107	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	329 ug/L	60.0	110	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	307 ug/L	60.0	102	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	332 ug/L	60.0	111	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	320 ug/L	60.0	107	(84%-121%)

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

Analyte is a surrogate compound

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK0218
Sample ID: 201112006

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
F Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).
Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

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Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID:	AK0318	Project:	SAIC007202
Sample ID:	201112007	Client ID:	SAIC072
Matrix:	Water		
Collect Date:	15-JAN-08 14:42		
Receive Date:	17-JAN-08		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		2.20	0.500	2.00	ug/L	1	RMJ	01/23/08	0311	719260	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.357	1.02	ug/L	1	RMB	01/21/08	1437	719340	2
[illegible]ethylnaphthalene	U	ND	0.306	1.02	ug/L	1					
[illegible]aphthene	U	ND	0.316	1.02	ug/L	1					
[illegible]aphthylene	U	ND	0.204	1.02	ug/L	1					
Anthracene	U	ND	0.204	1.02	ug/L	1					
Benzo(a)anthracene	U	ND	0.204	1.02	ug/L	1					
Benzo(a)pyrene	U	ND	0.204	1.02	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.204	1.02	ug/L	1					
Benzo(ghi)perylene	U	ND	0.204	1.02	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.204	1.02	ug/L	1					
Chrysene	U	ND	0.204	1.02	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.204	1.02	ug/L	1					
Fluoranthene	U	ND	0.204	1.02	ug/L	1					
Fluorene	U	ND	0.204	1.02	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.204	1.02	ug/L	1					
Naphthalene	U	ND	0.306	1.02	ug/L	1					
Phenanthrene	U	ND	0.204	1.02	ug/L	1					
Pyrene	U	ND	0.306	1.02	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene	U	ND	0.300	1.00	ug/L	1	CDS1	01/26/08	2149	720957	3
Ethylbenzene	J	0.257	0.250	1.00	ug/L	1					
Toluene	J	0.276	0.250	1.00	ug/L	1					
Xylenes (total)	J	0.904	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	01/21/08	1857	719259
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	SXL3	01/18/08	1728	719339

The following Analytical Methods were performed

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK0318
Sample ID: 201112007

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	28.9 ug/L	51.0	57	(41%-99%)
. ɔbenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	28.3 ug/L	51.0	56	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	42.5 ug/L	51.0	83	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	64.0 ug/L	60.0	107	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	62.3 ug/L	60.0	104	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	66.8 ug/L	60.0	111	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	65.7 ug/L	60.0	109	(84%-121%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID: AK0318
Sample ID: 201112007

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis

Reviewed by

GEL 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: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID:	AK0418	Project:	SAIC007202
Sample ID:	201112008	Client ID:	SAIC072
Matrix:	Water		
Collect Date:	15-JAN-08 15:50		
Receive Date:	17-JAN-08		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3005/6020 Lead Federal "As Received"										
Lead		165	0.500	2.00	ug/L	1	RMJ 01/23/08	0316	719260	1
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid "As Received"										
2-Chloronaphthalene	U	ND	0.376	1.08	ug/L	1	RMB 01/21/08	1458	719340	2
^ `Methylnaphthalene	U	ND	0.323	1.08	ug/L	1				
naphthene	U	ND	0.333	1.08	ug/L	1				
Acenaphthylene	U	ND	0.215	1.08	ug/L	1				
Anthracene	U	ND	0.215	1.08	ug/L	1				
Benzo(a)anthracene	U	ND	0.215	1.08	ug/L	1				
Benzo(a)pyrene	U	ND	0.215	1.08	ug/L	1				
Benzo(b)fluoranthene	U	ND	0.215	1.08	ug/L	1				
Benzo(ghi)perylene	U	ND	0.215	1.08	ug/L	1				
Benzo(k)fluoranthene	U	ND	0.215	1.08	ug/L	1				
Chrysene	U	ND	0.215	1.08	ug/L	1				
Dibenzo(a,h)anthracene	U	ND	0.215	1.08	ug/L	1				
Fluoranthene	U	ND	0.215	1.08	ug/L	1				
Fluorene	U	ND	0.215	1.08	ug/L	1				
Indeno(1,2,3-cd)pyrene	U	ND	0.215	1.08	ug/L	1				
Naphthalene		2.60	0.323	1.08	ug/L	1				
Phenanthrene	U	ND	0.215	1.08	ug/L	1				
Pyrene	U	ND	0.323	1.08	ug/L	1				
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene		216	15.0	50.0	ug/L	50	CDS1 01/25/08	0344	720957	3
Ethylbenzene		1010	12.5	50.0	ug/L	50				
Toluene		2360	12.5	50.0	ug/L	50				
Xylenes (total)		3890	12.5	50.0	ug/L	50				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	01/21/08	1857	719259
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	SXL3	01/18/08	1728	719339

The following Analytical Methods were performed

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK0418
Sample ID: 201112008

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	47.9 ug/L	53.8	89	(41%-99%)
›enzene-d5	3510/8270 PAH Extend list Liquid "As Received"	47.1 ug/L	53.8	88	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	48.8 ug/L	53.8	91	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	3360 ug/L	60.0	112	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	3130 ug/L	60.0	104	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	3270 ug/L	60.0	109	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	3220 ug/L	60.0	107	(84%-121%)

Notes:
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A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID: AK0418 Project: SAIC007202
Sample ID: 201112008 Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID:	AK0518	Project:	SAIC007202
Sample ID:	201112013	Client ID:	SAIC072
Matrix:	Water		
Collect Date:	16-JAN-08 10:48		
Receive Date:	17-JAN-08		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene		137	15.0	50.0	ug/L	50	CDS1 01/28/08	1500	720957	1
Ethylbenzene		542	12.5	50.0	ug/L	50				
Toluene		3730	12.5	50.0	ug/L	50				
Xylenes (total)		1890	12.5	50.0	ug/L	50				

following Analytical Methods were performed

od	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	3080 ug/L	60.0	103	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	3080 ug/L	60.0	103	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	3230 ug/L	60.0	108	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	3270 ug/L	60.0	109	(84%-121%)

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

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< Result is less than value reported
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A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID: AK0518
Sample ID: 201112013

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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Valerie Davis

Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID:	AK0618	Project:	SAIC007202
Sample ID:	201112012	Client ID:	SAIC072
Matrix:	Water		
Collect Date:	16-JAN-08 09:43		
Receive Date:	17-JAN-08		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3005/6020 Lead Federal "As Received"										
Lead		67.7	0.500	2.00	ug/L	1	RMJ 01/23/08	1858	719260	1
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid "As Received"										
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	RMB 01/21/08	1625	719340	2
[illegible]ethylnaphthalene		1.48	0.300	1.00	ug/L	1				
[illegible]phthene	U	ND	0.310	1.00	ug/L	1				
[illegible]phthylene	U	ND	0.200	1.00	ug/L	1				
Anthracene	U	ND	0.200	1.00	ug/L	1				
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1				
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1				
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1				
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1				
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1				
Chrysene	U	ND	0.200	1.00	ug/L	1				
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1				
Fluoranthene	U	ND	0.200	1.00	ug/L	1				
Fluorene	U	ND	0.200	1.00	ug/L	1				
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1				
Naphthalene		5.06	0.300	1.00	ug/L	1				
Phenanthrene	U	ND	0.200	1.00	ug/L	1				
Pyrene	U	ND	0.300	1.00	ug/L	1				
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene		106	15.0	50.0	ug/L	50	CDS1 01/30/08	0026	720957	3
Ethylbenzene		1030	12.5	50.0	ug/L	50				
Toluene	E	10300	12.5	50.0	ug/L	50				
Xylenes (total)		3900	12.5	50.0	ug/L	50				
Benzene	J	96.9	60.0	200	ug/L	200	CDS1 01/28/08	1431	720957	4
Ethylbenzene		962	50.0	200	ug/L	200				
Toluene		10100	50.0	200	ug/L	200				
Xylenes (total)		3670	50.0	200	ug/L	200				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
[illegible]/846 3005A	ICP-MS 3005 PREP	BXA1	01/21/08	1857	719259

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK0618
Sample ID: 201112012

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Ped			SXL3	01/18/08	1728	719339			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

ogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	43.4 ug/L	50.0	87	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	38.2 ug/L	50.0	76	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	44.0 ug/L	50.0	88	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	3100 ug/L	60.0	103	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	3220 ug/L	60.0	107	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	3260 ug/L	60.0	109	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	3280 ug/L	60.0	109	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	12600 ug/L	60.0	105	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	12400 ug/L	60.0	103	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	13300 ug/L	60.0	111	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	13200 ug/L	60.0	110	(84%-121%)

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

Analyte is a surrogate compound

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK0618
Sample ID: 201112012

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded
Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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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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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: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK0714
Sample ID: 201112011
Matrix: Water
Collect Date: 16-JAN-08 08:37
Receive Date: 17-JAN-08
Collector: Client

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3005/6020 Lead Federal "As Received"										
Lead	U	ND	0.500	2.00	ug/L	1	RMJ 01/23/08	0332	719260	1
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid "As Received"										
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	RMB 01/21/08	1603	719340	2
2-Methylnaphthalene	U	ND	0.300	1.00	ug/L	1				
Acenaphthene	U	ND	0.310	1.00	ug/L	1				
Acenaphthylene	U	ND	0.200	1.00	ug/L	1				
Anthracene	U	ND	0.200	1.00	ug/L	1				
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1				
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1				
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1				
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1				
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1				
Chrysene	U	ND	0.200	1.00	ug/L	1				
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1				
Fluoranthene	U	ND	0.200	1.00	ug/L	1				
Fluorene	U	ND	0.200	1.00	ug/L	1				
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1				
Naphthalene	U	ND	0.300	1.00	ug/L	1				
Phenanthrene	U	ND	0.200	1.00	ug/L	1				
Pyrene	U	ND	0.300	1.00	ug/L	1				
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene	U	ND	0.300	1.00	ug/L	1	CDS1 01/26/08	2248	720957	3
Ethylbenzene	J	0.357	0.250	1.00	ug/L	1				
Toluene	J	0.553	0.250	1.00	ug/L	1				
Xylenes (total)		1.65	0.250	1.00	ug/L	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	01/21/08	1857	719259
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	SXL3	01/18/08	1728	719339

The following Analytical Methods were performed

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID: AK0714
Sample ID: 201112011

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	33.2 ug/L	50.0	66	(41%-99%)
benzene-d5	3510/8270 PAH Extend list Liquid "As Received"	32.6 ug/L	50.0	65	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	40.5 ug/L	50.0	81	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	63.2 ug/L	60.0	105	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	61.4 ug/L	60.0	102	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	64.9 ug/L	60.0	108	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	63.9 ug/L	60.0	107	(84%-121%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour

Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID: AK0714 Project: SAIC007202
Sample ID: 201112011 Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

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: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK0718
Sample ID: 201112010
Matrix: Water
Collect Date: 16-JAN-08 08:37
Receive Date: 17-JAN-08
Collector: Client

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead	U	ND	0.500	2.00	ug/L	1	RMJ	01/23/08	0327	719260	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	RMB	01/21/08	1541	719340	2
2-Methylnaphthalene	U	ND	0.300	1.00	ug/L	1					
Acenaphthene	U	ND	0.310	1.00	ug/L	1					
Acenaphthylene	U	ND	0.200	1.00	ug/L	1					
Anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Chrysene	U	ND	0.200	1.00	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1					
Fluoranthene	U	ND	0.200	1.00	ug/L	1					
Fluorene	U	ND	0.200	1.00	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1					
Naphthalene	U	ND	0.300	1.00	ug/L	1					
Phenanthrene	U	ND	0.200	1.00	ug/L	1					
Pyrene	U	ND	0.300	1.00	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene	U	ND	0.300	1.00	ug/L	1	CDS1	01/26/08	2219	720957	3
Ethylbenzene	J	0.367	0.250	1.00	ug/L	1					
Toluene	J	0.622	0.250	1.00	ug/L	1					
Xylenes (total)		1.56	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	01/21/08	1857	719259
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	SXL3	01/18/08	1728	719339

The following Analytical Methods were performed

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK0718
Sample ID: 201112010

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	35.6 ug/L	50.0	71	(41%-99%)
benzene-d5	3510/8270 PAH Extend list Liquid "As Received"	32.5 ug/L	50.0	65	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	47.1 ug/L	50.0	94	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	62.5 ug/L	60.0	104	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	61.4 ug/L	60.0	102	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	64.8 ug/L	60.0	108	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	63.9 ug/L	60.0	106	(84%-121%)

Notes:
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> Result is greater than value reported
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B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

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Certificate of Analysis

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Address : 151 Lafayette Drive
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Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK0718
Sample ID: 201112010

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK0818
Sample ID: 201537002
Matrix: Ground Water
Collect Date: 23-JAN-08 09:41
Receive Date: 24-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		65.6	0.500	2.00	ug/L	1	RMJ	02/01/08	0521	721437	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	1.36	3.88	ug/L	4	BJB1	01/29/08	1130	721970	2
2-Methylnaphthalene	U	ND	1.17	3.88	ug/L	4					
Acenaphthene	U	ND	1.20	3.88	ug/L	4					
Acenaphthylene	U	ND	0.777	3.88	ug/L	4					
Anthracene	U	ND	0.777	3.88	ug/L	4					
Benzo(a)anthracene	U	ND	0.777	3.88	ug/L	4					
Benzo(a)pyrene	U	ND	0.777	3.88	ug/L	4					
Benzo(b)fluoranthene	U	ND	0.777	3.88	ug/L	4					
Benzo(ghi)perylene	U	ND	0.777	3.88	ug/L	4					
Benzo(k)fluoranthene	U	ND	0.777	3.88	ug/L	4					
Chrysene	U	ND	0.777	3.88	ug/L	4					
Dibenzo(a,h)anthracene	U	ND	0.777	3.88	ug/L	4					
Fluoranthene	U	ND	0.777	3.88	ug/L	4					
Fluorene	U	ND	0.777	3.88	ug/L	4					
Indeno(1,2,3-cd)pyrene	U	ND	0.777	3.88	ug/L	4					
Naphthalene	J	2.53	1.17	3.88	ug/L	4					
Phenanthrene	U	ND	0.777	3.88	ug/L	4					
Pyrene	U	ND	1.17	3.88	ug/L	4					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene		131	6.00	20.0	ug/L	20	CDS1	02/04/08	1653	723384	3
Ethylbenzene		827	5.00	20.0	ug/L	20					
Toluene		917	5.00	20.0	ug/L	20					
Xylenes (total)		3740	5.00	20.0	ug/L	20					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BCD1	01/31/08	0918	721436
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	AXW1	01/28/08	1706	721969

The following Analytical Methods were performed

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK0818
Sample ID: 201537002

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	10.8 ug/L	48.5	22*	(41%-99%)
enzene-d5	3510/8270 PAH Extend list Liquid "As Received"	18.6 ug/L	48.5	38*	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	11.4 ug/L	48.5	23*	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	993 ug/L	60.0	83	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	1020 ug/L	60.0	85	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	1420 ug/L	60.0	118	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	1160 ug/L	60.0	97	(84%-121%)

Notes:
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B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK0818
Sample ID: 201537002

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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Valerie Davis

Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK0915	Project:	SAIC08507
Sample ID:	201537003	Client ID:	SAIC085
Matrix:	Ground Water		
Collect Date:	23-JAN-08 10:10		
Receive Date:	24-JAN-08		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3005/6020 Lead Federal "As Received"										
Lead	U	ND	0.500	2.00	ug/L	1	RMJ 02/01/08	0526	721437	1
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid "As Received"										
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	BJB1 01/29/08	1606	721970	2
2-Methylnaphthalene	U	ND	0.300	1.00	ug/L	1				
Acenaphthene	U	ND	0.310	1.00	ug/L	1				
Acenaphthylene	U	ND	0.200	1.00	ug/L	1				
Anthracene	U	ND	0.200	1.00	ug/L	1				
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1				
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1				
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1				
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1				
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1				
Chrysene	U	ND	0.200	1.00	ug/L	1				
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1				
Fluoranthene	U	ND	0.200	1.00	ug/L	1				
Fluorene	U	ND	0.200	1.00	ug/L	1				
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1				
Naphthalene	U	ND	0.300	1.00	ug/L	1				
Phenanthrene	U	ND	0.200	1.00	ug/L	1				
Pyrene	U	ND	0.300	1.00	ug/L	1				
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene	U	ND	0.300	1.00	ug/L	1	CDS1 02/04/08	1525	723384	3
Ethylbenzene		2.83	0.250	1.00	ug/L	1				
Toluene		2.83	0.250	1.00	ug/L	1				
Xylenes (total)		10.9	0.250	1.00	ug/L	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BCD1	01/31/08	0918	721436
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	AXW1	01/28/08	1706	721969

The following Analytical Methods were performed

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK0915
Sample ID: 201537003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	33.3 ug/L	50.0	67	(41%-99%)
. ɔbenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	40.4 ug/L	50.0	81	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	38.6 ug/L	50.0	77	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	49.1 ug/L	60.0	82	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	50.5 ug/L	60.0	84	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	71.1 ug/L	60.0	119	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	58.2 ug/L	60.0	97	(84%-121%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK0915
Sample ID: 201537003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
" Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK0918
Sample ID: 201537004
Matrix: Ground Water
Collect Date: 23-JAN-08 10:55
Receive Date: 24-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3005/6020 Lead Federal "As Received"										
Lead		34.0	0.500	2.00	ug/L	1	RMJ 02/01/08	0531	721437	1
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid "As Received"										
2-Chloronaphthalene	U	ND	1.41	4.04	ug/L	4	BJB1 01/29/08	1212	721970	2
2-Methylnaphthalene	J	2.86	1.21	4.04	ug/L	4				
Naphthene	U	ND	1.25	4.04	ug/L	4				
Acenaphthylene	U	ND	0.808	4.04	ug/L	4				
Anthracene	U	ND	0.808	4.04	ug/L	4				
Benzo(a)anthracene	U	ND	0.808	4.04	ug/L	4				
Benzo(a)pyrene	U	ND	0.808	4.04	ug/L	4				
Benzo(b)fluoranthene	U	ND	0.808	4.04	ug/L	4				
Benzo(ghi)perylene	U	ND	0.808	4.04	ug/L	4				
Benzo(k)fluoranthene	U	ND	0.808	4.04	ug/L	4				
Chrysene	U	ND	0.808	4.04	ug/L	4				
Dibenzo(a,h)anthracene	U	ND	0.808	4.04	ug/L	4				
Fluoranthene	U	ND	0.808	4.04	ug/L	4				
Fluorene	U	ND	0.808	4.04	ug/L	4				
Indeno(1,2,3-cd)pyrene	U	ND	0.808	4.04	ug/L	4				
Naphthalene		10.1	1.21	4.04	ug/L	4				
Phenanthrene	U	ND	0.808	4.04	ug/L	4				
Pyrene	U	ND	1.21	4.04	ug/L	4				
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene	J	0.815	0.300	1.00	ug/L	1	CDS1 02/05/08	1234	723384	3
Ethylbenzene	E	314	0.250	1.00	ug/L	1				
Toluene		7.36	0.250	1.00	ug/L	1				
Xylenes (total)		928	0.250	1.00	ug/L	1				
Benzene	U	ND	3.00	10.0	ug/L	10	CDS1 02/04/08	1723	723384	4
Ethylbenzene		641	2.50	10.0	ug/L	10				
Toluene	J	9.05	2.50	10.0	ug/L	10				
Xylenes (total)		2080	2.50	10.0	ug/L	10				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BCD1	01/31/08	0918	721436

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK0918
Sample ID: 201537004

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			AXW1	01/28/08	1706	721969			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

ogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
orobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	31.4 ug/L	50.5	62	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	46.3 ug/L	50.5	92	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	32.3 ug/L	50.5	64	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	46.9 ug/L	60.0	78	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	50.6 ug/L	60.0	84	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	70.2 ug/L	60.0	117	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	59.2 ug/L	60.0	99	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	491 ug/L	60.0	82	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	496 ug/L	60.0	83	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	717 ug/L	60.0	120	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	572 ug/L	60.0	95	(84%-121%)

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

Analyte is a surrogate compound

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK0918
Sample ID: 201537004

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
F Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1018
Sample ID: 201682002
Matrix: Water
Collect Date: 24-JAN-08 08:39
Receive Date: 25-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3005/6020 Lead Federal "As Received"										
Lead		16.2	0.500	2.00	ug/L	1	BAJ 02/06/08	0302	722646	1
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid "As Received"										
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	RMB 01/29/08	1657	722061	2
2-Methylnaphthalene	J	0.973	0.300	1.00	ug/L	1				
Acenaphthene	U	ND	0.310	1.00	ug/L	1				
Acenaphthylene	U	ND	0.200	1.00	ug/L	1				
Anthracene	U	ND	0.200	1.00	ug/L	1				
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1				
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1				
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1				
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1				
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1				
Chrysene	U	ND	0.200	1.00	ug/L	1				
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1				
Fluoranthene	U	ND	0.200	1.00	ug/L	1				
Fluorene	U	ND	0.200	1.00	ug/L	1				
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1				
Naphthalene		4.69	0.300	1.00	ug/L	1				
Phenanthrene	U	ND	0.200	1.00	ug/L	1				
Pyrene	U	ND	0.300	1.00	ug/L	1				
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene		171	6.00	20.0	ug/L	20	CDS1 02/05/08	1442	724167	3
Ethylbenzene		577	5.00	20.0	ug/L	20				
Toluene	E	4770	5.00	20.0	ug/L	20				
Xylenes (total)		3610	5.00	20.0	ug/L	20				
Benzene		183	30.0	100	ug/L	100	CDS1 02/07/08	0929	724167	4
Ethylbenzene		596	25.0	100	ug/L	100				
Toluene		5830	25.0	100	ug/L	100				
Xylenes (total)	B	3830	25.0	100	ug/L	100				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1933	722643

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK1018
Sample ID: 201682002

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			SXC2	01/29/08	1408	722051			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

ogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	43.7 ug/L	50.0	87	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	41.8 ug/L	50.0	84	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	44.0 ug/L	50.0	88	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	975 ug/L	60.0	81	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	1020 ug/L	60.0	85	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	1390 ug/L	60.0	116	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	1170 ug/L	60.0	97	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	5090 ug/L	60.0	85	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	4980 ug/L	60.0	83	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	7230 ug/L	60.0	120	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	5770 ug/L	60.0	96	(84%-121%)

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

Analyte is a surrogate compound

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Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1018
Sample ID: 201682002

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis

Reviewed by

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Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK1118
Sample ID: 201682003
Matrix: Water
Collect Date: 24-JAN-08 09:36
Receive Date: 25-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3005/6020 Lead Federal "As Received"										
Lead		36.4	0.500	2.00	ug/L	1	BAJ 02/06/08	0313	722646	1
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid "As Received"										
2-Chloronaphthalene	U	ND	0.357	1.02	ug/L	1	RMB 01/29/08	1718	722061	2
2-Methylnaphthalene		1.36	0.306	1.02	ug/L	1				
Acenaphthene	U	ND	0.316	1.02	ug/L	1				
Acenaphthylene	U	ND	0.204	1.02	ug/L	1				
Anthracene	U	ND	0.204	1.02	ug/L	1				
Benzo(a)anthracene	U	ND	0.204	1.02	ug/L	1				
Benzo(a)pyrene	U	ND	0.204	1.02	ug/L	1				
Benzo(b)fluoranthene	U	ND	0.204	1.02	ug/L	1				
Benzo(ghi)perylene	U	ND	0.204	1.02	ug/L	1				
Benzo(k)fluoranthene	U	ND	0.204	1.02	ug/L	1				
Chrysene	U	ND	0.204	1.02	ug/L	1				
Dibenzo(a,h)anthracene	U	ND	0.204	1.02	ug/L	1				
Fluoranthene	U	ND	0.204	1.02	ug/L	1				
Fluorene	U	ND	0.204	1.02	ug/L	1				
Indeno(1,2,3-cd)pyrene	U	ND	0.204	1.02	ug/L	1				
Naphthalene		6.72	0.306	1.02	ug/L	1				
Phenanthrene	U	ND	0.204	1.02	ug/L	1				
Pyrene	U	ND	0.306	1.02	ug/L	1				
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene		133	30.0	100	ug/L	100	CDS1 02/07/08	0958	724167	3
Ethylbenzene		1070	25.0	100	ug/L	100				
Toluene		6680	25.0	100	ug/L	100				
Xylenes (total)	B	5670	25.0	100	ug/L	100				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1933	722643
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	SXC2	01/29/08	1408	722051

The following Analytical Methods were performed

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK1118
Sample ID: 201682003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	45.5 ug/L	51.0	89	(41%-99%)
enzene-d5	3510/8270 PAH Extend list Liquid "As Received"	46.6 ug/L	51.0	91	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	46.2 ug/L	51.0	91	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	4870 ug/L	60.0	81	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	5080 ug/L	60.0	85	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	7070 ug/L	60.0	118	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	5800 ug/L	60.0	97	(84%-121%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Report Date: April 9, 2008

Client Sample ID: AK1118
Sample ID: 201682003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

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Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1214
Sample ID: 201682005
Matrix: Water
Collect Date: 24-JAN-08 10:30
Receive Date: 25-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		12.1	0.500	2.00	ug/L	1	BAJ	02/06/08	0333	722646	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.361	1.03	ug/L	1	RMB	01/29/08	1801	722061	2
2-Methylnaphthalene		3.47	0.309	1.03	ug/L	1					
Acenaphthene	U	ND	0.320	1.03	ug/L	1					
Acenaphthylene	U	ND	0.206	1.03	ug/L	1					
Anthracene	U	ND	0.206	1.03	ug/L	1					
Benzo(a)anthracene	U	ND	0.206	1.03	ug/L	1					
Benzo(a)pyrene	U	ND	0.206	1.03	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.206	1.03	ug/L	1					
Benzo(ghi)perylene	U	ND	0.206	1.03	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.206	1.03	ug/L	1					
Chrysene	U	ND	0.206	1.03	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.206	1.03	ug/L	1					
Fluoranthene	U	ND	0.206	1.03	ug/L	1					
Fluorene	U	ND	0.206	1.03	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.206	1.03	ug/L	1					
Naphthalene		6.96	0.309	1.03	ug/L	1					
Phenanthrene	J	0.532	0.206	1.03	ug/L	1					
Pyrene	U	ND	0.309	1.03	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene	U	ND	0.300	1.00	ug/L	1	CDS1	02/07/08	0829	724167	3
Ethylbenzene		80.1	0.250	1.00	ug/L	1					
Toluene		4.12	0.250	1.00	ug/L	1					
Xylenes (total)	B	183	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1933	722643
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	SXC2	01/29/08	1408	722051

The following Analytical Methods were performed

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK1214
Sample ID: 201682005

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	44.4 ug/L	51.5	86	(41%-99%)
benzene-d5	3510/8270 PAH Extend list Liquid "As Received"	41.6 ug/L	51.5	81	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	47.8 ug/L	51.5	93	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	47.5 ug/L	60.0	79	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	50.7 ug/L	60.0	84	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	72.0 ug/L	60.0	120	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	59.5 ug/L	60.0	99	(84%-121%)

Notes:
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** Analyte is a surrogate compound
< Result is less than value reported
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A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK1214
Sample ID: 201682005

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GEL 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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK1218
Sample ID: 201682004
Matrix: Water
Collect Date: 24-JAN-08 10:30
Receive Date: 25-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		12.8	0.500	2.00	ug/L	1	BAJ	02/06/08	0318	722646	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.357	1.02	ug/L	1	RMB	01/29/08	1739	722061	2
2 Methylnaphthalene		3.41	0.306	1.02	ug/L	1					
aphthene	U	ND	0.316	1.02	ug/L	1					
Acenaphthylene	U	ND	0.204	1.02	ug/L	1					
Anthracene	U	ND	0.204	1.02	ug/L	1					
Benzo(a)anthracene	U	ND	0.204	1.02	ug/L	1					
Benzo(a)pyrene	U	ND	0.204	1.02	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.204	1.02	ug/L	1					
Benzo(ghi)perylene	U	ND	0.204	1.02	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.204	1.02	ug/L	1					
Chrysene	U	ND	0.204	1.02	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.204	1.02	ug/L	1					
Fluoranthene	U	ND	0.204	1.02	ug/L	1					
Fluorene	U	ND	0.204	1.02	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.204	1.02	ug/L	1					
Naphthalene		6.52	0.306	1.02	ug/L	1					
Phenanthrene	J	0.528	0.204	1.02	ug/L	1					
Pyrene	U	ND	0.306	1.02	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene	U	ND	0.300	1.00	ug/L	1	CDS1	02/07/08	0759	724167	3
Ethylbenzene		83.9	0.250	1.00	ug/L	1					
Toluene		4.46	0.250	1.00	ug/L	1					
Xylenes (total)	B	192	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1933	722643
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	SXC2	01/29/08	1408	722051

The following Analytical Methods were performed

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1218
Sample ID: 201682004

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	43.9 ug/L	51.0	86	(41%-99%)
benzene-d5	3510/8270 PAH Extend list Liquid "As Received"	39.8 ug/L	51.0	78	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	45.8 ug/L	51.0	90	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	50.2 ug/L	60.0	84	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	52.8 ug/L	60.0	88	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	71.3 ug/L	60.0	119	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	59.2 ug/L	60.0	99	(84%-121%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK1218
Sample ID: 201682004

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK1318
Sample ID: 201682006
Matrix: Water
Collect Date: 24-JAN-08 11:34
Receive Date: 25-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead	J	0.625	0.500	2.00	ug/L	1	BAJ	02/06/08	0339	722646	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.357	1.02	ug/L	1	RMB	01/29/08	1822	722061	2
2-Methylnaphthalene	U	ND	0.306	1.02	ug/L	1					
Acenaphthene	U	ND	0.316	1.02	ug/L	1					
Acenaphthylene	U	ND	0.204	1.02	ug/L	1					
Anthracene	U	ND	0.204	1.02	ug/L	1					
Benzo(a)anthracene	U	ND	0.204	1.02	ug/L	1					
Benzo(a)pyrene	U	ND	0.204	1.02	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.204	1.02	ug/L	1					
Benzo(ghi)perylene	U	ND	0.204	1.02	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.204	1.02	ug/L	1					
Chrysene	U	ND	0.204	1.02	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.204	1.02	ug/L	1					
Fluoranthene	U	ND	0.204	1.02	ug/L	1					
Fluorene	U	ND	0.204	1.02	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.204	1.02	ug/L	1					
Naphthalene	U	ND	0.306	1.02	ug/L	1					
Phenanthrene	U	ND	0.204	1.02	ug/L	1					
Pyrene	U	ND	0.306	1.02	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene	J	0.538	0.300	1.00	ug/L	1	CDS1	02/07/08	1027	724167	3
Ethylbenzene	U	ND	0.250	1.00	ug/L	1					
Toluene	J	0.476	0.250	1.00	ug/L	1					
Xylenes (total)	BJ	0.877	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1933	722643
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	SXC2	01/29/08	1408	722051

The following Analytical Methods were performed

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK1318
Sample ID: 201682006

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	40.0 ug/L	51.0	78	(41%-99%)
ıbenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	38.9 ug/L	51.0	76	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	41.2 ug/L	51.0	81	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	49.7 ug/L	60.0	83	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	51.7 ug/L	60.0	86	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	71.2 ug/L	60.0	119	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	59.0 ug/L	60.0	98	(84%-121%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1318
Sample ID: 201682006

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Report Date: April 9, 2008

Client Sample ID: AK1418
Sample ID: 201537005
Matrix: Ground Water
Collect Date: 23-JAN-08 12:12
Receive Date: 24-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3005/6020 Lead Federal "As Received"										
Lead		32.9	0.500	2.00	ug/L	1	RMJ 02/01/08	0536	721437	1
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid "As Received"										
2-Chloronaphthalene	U	ND	1.41	4.04	ug/L	4	BJB1 01/29/08	1233	721970	2
2 ethylnaphthalene	J	1.62	1.21	4.04	ug/L	4				
aphthene	U	ND	1.25	4.04	ug/L	4				
Acenaphthylene	U	ND	0.808	4.04	ug/L	4				
Anthracene	U	ND	0.808	4.04	ug/L	4				
Benzo(a)anthracene	U	ND	0.808	4.04	ug/L	4				
Benzo(a)pyrene	U	ND	0.808	4.04	ug/L	4				
Benzo(b)fluoranthene	U	ND	0.808	4.04	ug/L	4				
Benzo(ghi)perylene	U	ND	0.808	4.04	ug/L	4				
Benzo(k)fluoranthene	U	ND	0.808	4.04	ug/L	4				
Chrysene	U	ND	0.808	4.04	ug/L	4				
Dibenzo(a,h)anthracene	U	ND	0.808	4.04	ug/L	4				
Fluoranthene	U	ND	0.808	4.04	ug/L	4				
Fluorene	U	ND	0.808	4.04	ug/L	4				
Indeno(1,2,3-cd)pyrene	U	ND	0.808	4.04	ug/L	4				
Naphthalene		6.48	1.21	4.04	ug/L	4				
Phenanthrene	U	ND	0.808	4.04	ug/L	4				
Pyrene	U	ND	1.21	4.04	ug/L	4				
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene		738	15.0	50.0	ug/L	50	CDS1 02/04/08	2142	723384	3
Ethylbenzene		808	12.5	50.0	ug/L	50				
Toluene	E	5600	12.5	50.0	ug/L	50				
Xylenes (total)		3680	12.5	50.0	ug/L	50				
Benzene		779	30.0	100	ug/L	100	CDS1 02/05/08	1038	723384	4
Ethylbenzene		850	25.0	100	ug/L	100				
Toluene		6130	25.0	100	ug/L	100				
Xylenes (total)		3820	25.0	100	ug/L	100				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BCD1	01/31/08	0918	721436

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK1418
Sample ID: 201537005

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			AXW1	01/28/08	1706	721969			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

ogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
orobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	35.9 ug/L	50.5	71	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	45.6 ug/L	50.5	90	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	34.2 ug/L	50.5	68	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	2430 ug/L	60.0	81	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	2410 ug/L	60.0	80	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	3660 ug/L	60.0	122	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	2850 ug/L	60.0	95	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	4840 ug/L	60.0	81	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	5100 ug/L	60.0	85	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	7100 ug/L	60.0	118	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	5820 ug/L	60.0	97	(84%-121%)

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

** Analyte is a surrogate compound

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Report Date: April 9, 2008

Client Sample ID: AK1418
Sample ID: 201537005
Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).
Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1518
Sample ID: 201537006
Matrix: Ground Water
Collect Date: 23-JAN-08 13:10
Receive Date: 24-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3005/6020 Lead Federal "As Received"										
Lead		10.4	0.500	2.00	ug/L	1	RMJ 02/01/08	0541	721437	1
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid "As Received"										
2-Chloronaphthalene	U	ND	1.33	3.81	ug/L	4	BJB1 01/29/08	1255	721970	2
2-Methylnaphthalene	U	ND	1.14	3.81	ug/L	4				
Acenaphthene	U	ND	1.18	3.81	ug/L	4				
Acenaphthylene	U	ND	0.762	3.81	ug/L	4				
Anthracene	U	ND	0.762	3.81	ug/L	4				
Benzo(a)anthracene	U	ND	0.762	3.81	ug/L	4				
Benzo(a)pyrene	U	ND	0.762	3.81	ug/L	4				
Benzo(b)fluoranthene	U	ND	0.762	3.81	ug/L	4				
Benzo(ghi)perylene	U	ND	0.762	3.81	ug/L	4				
Benzo(k)fluoranthene	U	ND	0.762	3.81	ug/L	4				
Chrysene	U	ND	0.762	3.81	ug/L	4				
Dibenzo(a,h)anthracene	U	ND	0.762	3.81	ug/L	4				
Fluoranthene	U	ND	0.762	3.81	ug/L	4				
Fluorene	U	ND	0.762	3.81	ug/L	4				
Indeno(1,2,3-cd)pyrene	U	ND	0.762	3.81	ug/L	4				
Naphthalene		5.24	1.14	3.81	ug/L	4				
Phenanthrene	U	ND	0.762	3.81	ug/L	4				
Pyrene	U	ND	1.14	3.81	ug/L	4				
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene		156	3.00	10.0	ug/L	10	CDS1 02/04/08	2211	723384	3
Ethylbenzene		384	2.50	10.0	ug/L	10				
Toluene	E	1070	2.50	10.0	ug/L	10				
Xylenes (total)		1800	2.50	10.0	ug/L	10				
Benzene		160	6.00	20.0	ug/L	20	CDS1 02/05/08	1107	723384	4
Ethylbenzene		397	5.00	20.0	ug/L	20				
Toluene		1140	5.00	20.0	ug/L	20				
Xylenes (total)		1960	5.00	20.0	ug/L	20				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BCD1	01/31/08	0918	721436

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1518
Sample ID: 201537006

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			AXW1	01/28/08	1706	721969			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

ogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	33.0 ug/L	47.6	69	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	47.0 ug/L	47.6	99	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	34.9 ug/L	47.6	73	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	481 ug/L	60.0	80	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	482 ug/L	60.0	80	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	714 ug/L	60.0	119	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	568 ug/L	60.0	95	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	965 ug/L	60.0	80	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	994 ug/L	60.0	83	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	1410 ug/L	60.0	118	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	1160 ug/L	60.0	97	(84%-121%)

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

* Analyte is a surrogate compound

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK1518
Sample ID: 201537006

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
F Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded
/alue is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).
Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis

Reviewed by

GEL 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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK1618
Sample ID: 201682007
Matrix: Water
Collect Date: 24-JAN-08 13:28
Receive Date: 25-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		6.52	0.500	2.00	ug/L	1	BAJ	02/06/08	0344	722646	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.357	1.02	ug/L	1	RMB	01/29/08	1844	722061	2
2-Methylnaphthalene		2.12	0.306	1.02	ug/L	1					
Naphthene	U	ND	0.316	1.02	ug/L	1					
Acenaphthylene	U	ND	0.204	1.02	ug/L	1					
Anthracene	U	ND	0.204	1.02	ug/L	1					
Benzo(a)anthracene	U	ND	0.204	1.02	ug/L	1					
Benzo(a)pyrene	U	ND	0.204	1.02	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.204	1.02	ug/L	1					
Benzo(ghi)perylene	U	ND	0.204	1.02	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.204	1.02	ug/L	1					
Chrysene	U	ND	0.204	1.02	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.204	1.02	ug/L	1					
Fluoranthene	U	ND	0.204	1.02	ug/L	1					
Fluorene	J	0.349	0.204	1.02	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.204	1.02	ug/L	1					
Naphthalene		9.75	0.306	1.02	ug/L	1					
Phenanthrene	U	ND	0.204	1.02	ug/L	1					
Pyrene	U	ND	0.306	1.02	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene		35.5	6.00	20.0	ug/L	20	CDS1	02/07/08	1454	724167	3
Ethylbenzene		810	5.00	20.0	ug/L	20					
Toluene		333	5.00	20.0	ug/L	20					
Xylenes (total)	B	3570	5.00	20.0	ug/L	20					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1933	722643
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	SXC2	01/29/08	1408	722051

The following Analytical Methods were performed

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK1618
Sample ID: 201682007

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	43.1 ug/L	51.0	84	(41%-99%)
benzene-d5	3510/8270 PAH Extend list Liquid "As Received"	39.3 ug/L	51.0	77	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	42.4 ug/L	51.0	83	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	1010 ug/L	60.0	84	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	1070 ug/L	60.0	89	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	1380 ug/L	60.0	115	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	1210 ug/L	60.0	101	(84%-121%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK1618
Sample ID: 201682007

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis

Reviewed by

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Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1714
Sample ID: 201682009
Matrix: Water
Collect Date: 24-JAN-08 14:28
Receive Date: 25-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		12.6	0.500	2.00	ug/L	1	BAJ	02/06/08	0354	722646	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	RMB	01/29/08	1926	722061	2
2-Methylnaphthalene		1.01	0.300	1.00	ug/L	1					
Acenaphthene	U	ND	0.310	1.00	ug/L	1					
Acenaphthylene	U	ND	0.200	1.00	ug/L	1					
Anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Chrysene	U	ND	0.200	1.00	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1					
Fluoranthene	U	ND	0.200	1.00	ug/L	1					
Fluorene	U	ND	0.200	1.00	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1					
Naphthalene		3.78	0.300	1.00	ug/L	1					
Phenanthrene	U	ND	0.200	1.00	ug/L	1					
Pyrene	U	ND	0.300	1.00	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene		6.51	0.300	1.00	ug/L	1	CDS1	02/07/08	1253	724167	3
Ethylbenzene	E	317	0.250	1.00	ug/L	1					
Toluene	E	910	0.250	1.00	ug/L	1					
Xylenes (total)	B	1100	0.250	1.00	ug/L	1					
Benzene	U	ND	15.0	50.0	ug/L	50	CDS1	02/07/08	1552	724167	4
Ethylbenzene		415	12.5	50.0	ug/L	50					
Toluene		2250	12.5	50.0	ug/L	50					
Xylenes (total)	B	1910	12.5	50.0	ug/L	50					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1933	722643

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK1714
Sample ID: 201682009

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			SXC2	01/29/08	1408	722051			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

ogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	43.1 ug/L	50.0	86	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	39.9 ug/L	50.0	80	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	47.2 ug/L	50.0	94	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	50.4 ug/L	60.0	84	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	50.5 ug/L	60.0	84	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	68.9 ug/L	60.0	115	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	57.7 ug/L	60.0	96	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	2590 ug/L	60.0	86	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	2750 ug/L	60.0	92	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	3480 ug/L	60.0	116	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	3060 ug/L	60.0	102	(84%-121%)

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

Analyte is a surrogate compound

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Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK1714
Sample ID: 201682009

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
F Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded
alue is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

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Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1718
Sample ID: 201682008
Matrix: Water
Collect Date: 24-JAN-08 14:28
Receive Date: 25-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3005/6020 Lead Federal "As Received"										
Lead		14.8	0.500	2.00	ug/L	1	BAJ 02/06/08	0349	722646	1
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid "As Received"										
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	RMB 01/29/08	1905	722061	2
2-Methylnaphthalene		1.13	0.300	1.00	ug/L	1				
Acenaphthene	U	ND	0.310	1.00	ug/L	1				
Acenaphthylene	U	ND	0.200	1.00	ug/L	1				
Anthracene	U	ND	0.200	1.00	ug/L	1				
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1				
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1				
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1				
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1				
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1				
Chrysene	U	ND	0.200	1.00	ug/L	1				
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1				
Fluoranthene	U	ND	0.200	1.00	ug/L	1				
Fluorene	U	ND	0.200	1.00	ug/L	1				
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1				
Naphthalene		4.03	0.300	1.00	ug/L	1				
Phenanthrene	U	ND	0.200	1.00	ug/L	1				
Pyrene	U	ND	0.300	1.00	ug/L	1				
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene		5.97	0.300	1.00	ug/L	1	CDS1 02/05/08	1705	724167	3
Ethylbenzene	E	262	0.250	1.00	ug/L	1				
Toluene	E	752	0.250	1.00	ug/L	1				
Xylenes (total)		920	0.250	1.00	ug/L	1				
Benzene	U	ND	15.0	50.0	ug/L	50	CDS1 02/07/08	1523	724167	4
Ethylbenzene		440	12.5	50.0	ug/L	50				
Toluene		2350	12.5	50.0	ug/L	50				
Xylenes (total)	B	2070	12.5	50.0	ug/L	50				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1933	722643

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK1718
Sample ID: 201682008

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			SXC2	01/29/08	1408	722051			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

ogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
orobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	47.2 ug/L	50.0	94	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	41.9 ug/L	50.0	84	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	47.0 ug/L	50.0	94	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	48.2 ug/L	60.0	80	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	51.6 ug/L	60.0	86	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	70.0 ug/L	60.0	117	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	58.0 ug/L	60.0	97	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	2530 ug/L	60.0	84	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	2690 ug/L	60.0	90	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	3480 ug/L	60.0	116	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	3040 ug/L	60.0	101	(84%-121%)

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

** Analyte is a surrogate compound

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK1718
Sample ID: 201682008

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GEL 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

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Report Date: April 9, 2008

Client Sample ID: AK1818
Sample ID: 201682010
Matrix: Water
Collect Date: 24-JAN-08 15:25
Receive Date: 25-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		30.0	0.500	2.00	ug/L	1	BAJ	02/06/08	0400	722646	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.337	0.962	ug/L	1	RMB	01/29/08	1947	722061	2
2-Methylnaphthalene	U	ND	0.288	0.962	ug/L	1					
[illegible]phthene	U	ND	0.298	0.962	ug/L	1					
[illegible]phthylene	U	ND	0.192	0.962	ug/L	1					
Anthracene	U	ND	0.192	0.962	ug/L	1					
Benzo(a)anthracene	U	ND	0.192	0.962	ug/L	1					
Benzo(a)pyrene	U	ND	0.192	0.962	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.192	0.962	ug/L	1					
Benzo(ghi)perylene	U	ND	0.192	0.962	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.192	0.962	ug/L	1					
Chrysene	U	ND	0.192	0.962	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.192	0.962	ug/L	1					
Fluoranthene	U	ND	0.192	0.962	ug/L	1					
Fluorene	U	ND	0.192	0.962	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.192	0.962	ug/L	1					
Naphthalene	U	ND	0.288	0.962	ug/L	1					
Phenanthrene	J	0.328	0.192	0.962	ug/L	1					
Pyrene	U	ND	0.288	0.962	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene		1.56	0.300	1.00	ug/L	1	CDS1	02/05/08	2242	724167	3
Ethylbenzene	E	430	0.250	1.00	ug/L	1					
Toluene	E	172	0.250	1.00	ug/L	1					
Xylenes (total)		1420	0.250	1.00	ug/L	1					
Benzene	U	ND	15.0	50.0	ug/L	50	CDS1	02/07/08	1622	724167	4
Ethylbenzene		1500	12.5	50.0	ug/L	50					
Toluene		246	12.5	50.0	ug/L	50					
Xylenes (total)	B	5190	12.5	50.0	ug/L	50					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1933	722643

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK1818
Sample ID: 201682010

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			SXC2	01/29/08	1408	722051			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

ogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	41.6 ug/L	48.1	87	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	49.4 ug/L	48.1	103*	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	42.9 ug/L	48.1	89	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	48.4 ug/L	60.0	81	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	48.8 ug/L	60.0	81	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	72.7 ug/L	60.0	121	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	57.1 ug/L	60.0	95	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	2580 ug/L	60.0	86	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	2730 ug/L	60.0	91	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	3450 ug/L	60.0	115	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	3060 ug/L	60.0	102	(84%-121%)

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

** Analyte is a surrogate compound

Certificate of Analysis

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

Contact: Ms. Leslie Barbour

Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK1818
Sample ID: 201682010

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
r Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded
Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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Valerie Davis
Reviewed by

GEL LABORATORIES LLC

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Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK1918
Sample ID: 201706001
Matrix: Water
Collect Date: 25-JAN-08 08:38
Receive Date: 26-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead	U	ND	0.500	2.00	ug/L	1	BAJ	02/05/08	2055	722678	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.347	0.990	ug/L	1	NAG1	01/30/08	1930	722376	2
2-Methylnaphthalene	U	ND	0.297	0.990	ug/L	1					
Naphthene	U	ND	0.307	0.990	ug/L	1					
Acenaphthylene	U	ND	0.198	0.990	ug/L	1					
Anthracene	U	ND	0.198	0.990	ug/L	1					
Benzo(a)anthracene	U	ND	0.198	0.990	ug/L	1					
Benzo(a)pyrene	U	ND	0.198	0.990	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.198	0.990	ug/L	1					
Benzo(ghi)perylene	U	ND	0.198	0.990	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.198	0.990	ug/L	1					
Chrysene	U	ND	0.198	0.990	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.198	0.990	ug/L	1					
Fluoranthene	U	ND	0.198	0.990	ug/L	1					
Fluorene	U	ND	0.198	0.990	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.198	0.990	ug/L	1					
Naphthalene	U	ND	0.297	0.990	ug/L	1					
Phenanthrene	U	ND	0.198	0.990	ug/L	1					
Pyrene	U	ND	0.297	0.990	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene	U	ND	0.300	1.00	ug/L	1	ACJ	02/07/08	1933	724348	3
Ethylbenzene	J	0.266	0.250	1.00	ug/L	1					
Toluene	J	0.329	0.250	1.00	ug/L	1					
Xylenes (total)	BJ	0.840	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1931	722675
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	SXC2	01/30/08	1423	722374

The following Analytical Methods were performed

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK1918
Sample ID: 201706001

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	37.7 ug/L	49.5	76	(41%-99%)
benzene-d5	3510/8270 PAH Extend list Liquid "As Received"	35.5 ug/L	49.5	72	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	36.1 ug/L	49.5	73	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	48.3 ug/L	50.0	97	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	43.1 ug/L	50.0	86	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	55.6 ug/L	50.0	111	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	48.4 ug/L	50.0	97	(84%-121%)

Notes:
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** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK1918
Sample ID: 201706001

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK2018
Sample ID: 201537008
Matrix: Ground Water
Collect Date: 23-JAN-08 15:15
Receive Date: 24-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		204	2.50	10.0	ug/L	5	RMJ	02/02/08	0303	721437	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	1.40	4.00	ug/L	4	BJB1	01/29/08	1419	721970	2
2-Methylnaphthalene	U	ND	1.20	4.00	ug/L	4					
Acenaphthene	U	ND	1.24	4.00	ug/L	4					
Acenaphthylene	U	ND	0.800	4.00	ug/L	4					
Anthracene	U	ND	0.800	4.00	ug/L	4					
Benzo(a)anthracene	U	ND	0.800	4.00	ug/L	4					
Benzo(a)pyrene	U	ND	0.800	4.00	ug/L	4					
Benzo(b)fluoranthene	U	ND	0.800	4.00	ug/L	4					
Benzo(ghi)perylene	U	ND	0.800	4.00	ug/L	4					
Benzo(k)fluoranthene	U	ND	0.800	4.00	ug/L	4					
Chrysene	U	ND	0.800	4.00	ug/L	4					
Dibenzo(a,h)anthracene	U	ND	0.800	4.00	ug/L	4					
Fluoranthene	U	ND	0.800	4.00	ug/L	4					
Fluorene	U	ND	0.800	4.00	ug/L	4					
Indeno(1,2,3-cd)pyrene	U	ND	0.800	4.00	ug/L	4					
Naphthalene	J	3.37	1.20	4.00	ug/L	4					
Phenanthrene	U	ND	0.800	4.00	ug/L	4					
Pyrene	U	ND	1.20	4.00	ug/L	4					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene		448	6.00	20.0	ug/L	20	CDS1	02/05/08	1205	723384	3
Ethylbenzene		653	5.00	20.0	ug/L	20					
Toluene		1370	5.00	20.0	ug/L	20					
Xylenes (total)		3280	5.00	20.0	ug/L	20					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BCD1	01/31/08	0918	721436
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	AXW1	01/28/08	1706	721969

The following Analytical Methods were performed

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK2018
Sample ID: 201537008

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	28.9 ug/L	50.0	58	(41%-99%)
benzene-d5	3510/8270 PAH Extend list Liquid "As Received"	40.7 ug/L	50.0	81	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	29.6 ug/L	50.0	59	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	965 ug/L	60.0	80	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	1000 ug/L	60.0	84	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	1400 ug/L	60.0	117	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	1180 ug/L	60.0	98	(84%-121%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK2018
Sample ID: 201537008

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Report Date: April 9, 2008

Client Sample ID: AK2118
Sample ID: 201537007
Matrix: Ground Water
Collect Date: 23-JAN-08 14:18
Receive Date: 24-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3005/6020 Lead Federal "As Received"										
Lead		57.2	0.500	2.00	ug/L	1	RMJ 02/01/08	0612	721437	1
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid "As Received"										
2-Chloronaphthalene	U	ND	1.40	4.00	ug/L	4	BJB1 01/29/08	1358	721970	2
2-Methylnaphthalene	J	1.22	1.20	4.00	ug/L	4				
Naphthene	U	ND	1.24	4.00	ug/L	4				
Acenaphthylene	U	ND	0.800	4.00	ug/L	4				
Anthracene	U	ND	0.800	4.00	ug/L	4				
Benzo(a)anthracene	U	ND	0.800	4.00	ug/L	4				
Benzo(a)pyrene	U	ND	0.800	4.00	ug/L	4				
Benzo(b)fluoranthene	U	ND	0.800	4.00	ug/L	4				
Benzo(ghi)perylene	U	ND	0.800	4.00	ug/L	4				
Benzo(k)fluoranthene	U	ND	0.800	4.00	ug/L	4				
Chrysene	U	ND	0.800	4.00	ug/L	4				
Dibenzo(a,h)anthracene	U	ND	0.800	4.00	ug/L	4				
Fluoranthene	U	ND	0.800	4.00	ug/L	4				
Fluorene	U	ND	0.800	4.00	ug/L	4				
Indeno(1,2,3-cd)pyrene	U	ND	0.800	4.00	ug/L	4				
Naphthalene		5.86	1.20	4.00	ug/L	4				
Phenanthrene	U	ND	0.800	4.00	ug/L	4				
Pyrene	U	ND	1.20	4.00	ug/L	4				
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene		599	15.0	50.0	ug/L	50	CDS1 02/04/08	2239	723384	3
Ethylbenzene		786	12.5	50.0	ug/L	50				
Toluene	E	5220	12.5	50.0	ug/L	50				
Xylenes (total)		3570	12.5	50.0	ug/L	50				
Benzene		598	30.0	100	ug/L	100	CDS1 02/05/08	1136	723384	4
Ethylbenzene		794	25.0	100	ug/L	100				
Toluene		5460	25.0	100	ug/L	100				
Xylenes (total)		3530	25.0	100	ug/L	100				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BCD1	01/31/08	0918	721436

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2118
Sample ID: 201537007

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			AXW1	01/28/08	1706	721969			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

ogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
orobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	35.0 ug/L	50.0	70	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	47.5 ug/L	50.0	95	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	36.3 ug/L	50.0	73	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	2420 ug/L	60.0	81	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	2440 ug/L	60.0	81	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	3610 ug/L	60.0	120	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	2860 ug/L	60.0	95	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	4810 ug/L	60.0	80	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	5010 ug/L	60.0	83	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	7070 ug/L	60.0	118	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	5850 ug/L	60.0	98	(84%-121%)

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

Analyte is a surrogate compound

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Report Date: April 9, 2008

Client Sample ID: AK2118
Sample ID: 201537007

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
F Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GEL 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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK2218
Sample ID: 201706002
Matrix: Water
Collect Date: 25-JAN-08 09:35
Receive Date: 26-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		9.42	0.500	2.00	ug/L	1	BAJ	02/05/08	2100	722678	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	1.40	4.00	ug/L	4	NAG1	01/30/08	1613	722376	2
2-Methylnaphthalene	J	1.48	1.20	4.00	ug/L	4					
Acenaphthene	U	ND	1.24	4.00	ug/L	4					
Acenaphthylene	U	ND	0.800	4.00	ug/L	4					
Anthracene	U	ND	0.800	4.00	ug/L	4					
Benzo(a)anthracene	U	ND	0.800	4.00	ug/L	4					
Benzo(a)pyrene	U	ND	0.800	4.00	ug/L	4					
Benzo(b)fluoranthene	U	ND	0.800	4.00	ug/L	4					
Benzo(ghi)perylene	U	ND	0.800	4.00	ug/L	4					
Benzo(k)fluoranthene	U	ND	0.800	4.00	ug/L	4					
Chrysene	U	ND	0.800	4.00	ug/L	4					
Dibenzo(a,h)anthracene	U	ND	0.800	4.00	ug/L	4					
Fluoranthene	U	ND	0.800	4.00	ug/L	4					
Fluorene	U	ND	0.800	4.00	ug/L	4					
Indeno(1,2,3-cd)pyrene	U	ND	0.800	4.00	ug/L	4					
Naphthalene		7.01	1.20	4.00	ug/L	4					
Phenanthrene	U	ND	0.800	4.00	ug/L	4					
Pyrene	U	ND	1.20	4.00	ug/L	4					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene		497	1.50	5.00	ug/L	5	ACJ	02/07/08	2057	724348	3
Ethylbenzene	E	550	1.25	5.00	ug/L	5					
Toluene		250	1.25	5.00	ug/L	5					
Xylenes (total)	B	2160	1.25	5.00	ug/L	5					
Benzene		500	3.00	10.0	ug/L	10	ACJ	02/08/08	1206	724348	4
Ethylbenzene		548	2.50	10.0	ug/L	10					
Toluene		240	2.50	10.0	ug/L	10					
Xylenes (total)	B	2200	2.50	10.0	ug/L	10					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1931	722675

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK2218
Sample ID: 201706002

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			SXC2	01/30/08	1423	722374			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

ogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	43.6 ug/L	50.0	87	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	47.7 ug/L	50.0	95	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	33.8 ug/L	50.0	68	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	224 ug/L	50.0	89	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	217 ug/L	50.0	87	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	259 ug/L	50.0	104	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	234 ug/L	50.0	94	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	411 ug/L	50.0	82	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	425 ug/L	50.0	85	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	482 ug/L	50.0	96	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	456 ug/L	50.0	91	(84%-121%)

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

Analyte is a surrogate compound

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2218
Sample ID: 201706002

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
F Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded
/alue is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GEL 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

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Report Date: April 9, 2008

Client Sample ID: AK2318
Sample ID: 201706003
Matrix: Water
Collect Date: 25-JAN-08 11:01
Receive Date: 26-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		69.7	0.500	2.00	ug/L	1	BAJ	02/05/08	2116	722678	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	1.39	3.98	ug/L	4	NAG1	01/30/08	1634	722376	2
2-Methylnaphthalene	J	3.11	1.19	3.98	ug/L	4					
Acenaphthene	U	ND	1.23	3.98	ug/L	4					
Acenaphthylene	U	ND	0.796	3.98	ug/L	4					
Anthracene	U	ND	0.796	3.98	ug/L	4					
Benzo(a)anthracene	U	ND	0.796	3.98	ug/L	4					
Benzo(a)pyrene	U	ND	0.796	3.98	ug/L	4					
Benzo(b)fluoranthene	U	ND	0.796	3.98	ug/L	4					
Benzo(ghi)perylene	U	ND	0.796	3.98	ug/L	4					
Benzo(k)fluoranthene	U	ND	0.796	3.98	ug/L	4					
Chrysene	U	ND	0.796	3.98	ug/L	4					
Dibenzo(a,h)anthracene	U	ND	0.796	3.98	ug/L	4					
Fluoranthene	U	ND	0.796	3.98	ug/L	4					
Fluorene	U	ND	0.796	3.98	ug/L	4					
Indeno(1,2,3-cd)pyrene	U	ND	0.796	3.98	ug/L	4					
Naphthalene		14.2	1.19	3.98	ug/L	4					
Phenanthrene	U	ND	0.796	3.98	ug/L	4					
Pyrene	U	ND	1.19	3.98	ug/L	4					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene		93.4	3.00	10.0	ug/L	10	ACJ	02/08/08	1234	724348	3
Ethylbenzene		871	2.50	10.0	ug/L	10					
Toluene		21.4	2.50	10.0	ug/L	10					
Xylenes (total)	B	2480	2.50	10.0	ug/L	10					
Benzene		88.2	6.00	20.0	ug/L	20	ACJ	02/08/08	1553	724348	4
Ethylbenzene		900	5.00	20.0	ug/L	20					
Toluene		22.4	5.00	20.0	ug/L	20					
Xylenes (total)	B	2550	5.00	20.0	ug/L	20					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1931	722675

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2318
Sample ID: 201706003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			SXC2	01/30/08	1423	722374			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

ngate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2 orobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	46.5 ug/L	49.8	93	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	53.2 ug/L	49.8	107*	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	35.7 ug/L	49.8	72	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	430 ug/L	50.0	86	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	439 ug/L	50.0	88	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	502 ug/L	50.0	100	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	474 ug/L	50.0	95	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	933 ug/L	50.0	93	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	861 ug/L	50.0	86	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	1050 ug/L	50.0	105	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	934 ug/L	50.0	93	(84%-121%)

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

* Analyte is a surrogate compound

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK2318
Sample ID: 201706003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
F Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).
Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on an "as received" basis.
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This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2418
Sample ID: 201706004
Matrix: Water
Collect Date: 25-JAN-08 12:04
Receive Date: 26-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		5.99	0.500	2.00	ug/L	1	BAJ	02/05/08	2121	722678	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	1.40	4.00	ug/L	4	NAG1	01/30/08	1656	722376	2
2-Methylnaphthalene	U	ND	1.20	4.00	ug/L	4					
Acenaphthene	U	ND	1.24	4.00	ug/L	4					
Acenaphthylene	U	ND	0.800	4.00	ug/L	4					
Anthracene	U	ND	0.800	4.00	ug/L	4					
Benzo(a)anthracene	U	ND	0.800	4.00	ug/L	4					
Benzo(a)pyrene	U	ND	0.800	4.00	ug/L	4					
Benzo(b)fluoranthene	U	ND	0.800	4.00	ug/L	4					
Benzo(ghi)perylene	U	ND	0.800	4.00	ug/L	4					
Benzo(k)fluoranthene	U	ND	0.800	4.00	ug/L	4					
Chrysene	U	ND	0.800	4.00	ug/L	4					
Dibenzo(a,h)anthracene	U	ND	0.800	4.00	ug/L	4					
Fluoranthene	U	ND	0.800	4.00	ug/L	4					
Fluorene	U	ND	0.800	4.00	ug/L	4					
Indeno(1,2,3-cd)pyrene	U	ND	0.800	4.00	ug/L	4					
Naphthalene	U	ND	1.20	4.00	ug/L	4					
Phenanthrene	U	ND	0.800	4.00	ug/L	4					
Pyrene	U	ND	1.20	4.00	ug/L	4					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene	J	0.399	0.300	1.00	ug/L	1	ACJ	02/07/08	2001	724348	3
Ethylbenzene		50.3	0.250	1.00	ug/L	1					
Toluene		6.55	0.250	1.00	ug/L	1					
Xylenes (total)	B	143	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1931	722675
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	SXC2	01/30/08	1423	722374

The following Analytical Methods were performed

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2418
Sample ID: 201706004

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	40.0 ug/L	50.0	80	(41%-99%)
. ɔbenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	39.9 ug/L	50.0	80	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	31.5 ug/L	50.0	63	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	48.0 ug/L	50.0	96	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	44.7 ug/L	50.0	89	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	55.0 ug/L	50.0	110	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	49.7 ug/L	50.0	99	(84%-121%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2418
Sample ID: 201706004

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GEL 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

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Report Date: April 9, 2008

Client Sample ID: AK2518
Sample ID: 201706005
Matrix: Water
Collect Date: 25-JAN-08 13:39
Receive Date: 26-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead	U	ND	0.500	2.00	ug/L	1	BAJ	02/05/08	2126	722678	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	NAG1	01/30/08	1802	722376	2
2 ' 'ethylnaphthalene	U	ND	0.300	1.00	ug/L	1					
aphthene	U	ND	0.310	1.00	ug/L	1					
Acenaphthylene	U	ND	0.200	1.00	ug/L	1					
Anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Chrysene	U	ND	0.200	1.00	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1					
Fluoranthene	U	ND	0.200	1.00	ug/L	1					
Fluorene	U	ND	0.200	1.00	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1					
Naphthalene	U	ND	0.300	1.00	ug/L	1					
Phenanthrene	U	ND	0.200	1.00	ug/L	1					
Pyrene	U	ND	0.300	1.00	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene	U	ND	0.300	1.00	ug/L	1	ACJ	02/07/08	2029	724348	3
Ethylbenzene	J	0.252	0.250	1.00	ug/L	1					
Toluene	U	ND	0.250	1.00	ug/L	1					
Xylenes (total)	BJ	0.762	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1931	722675
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	SXC2	01/30/08	1423	722374

The following Analytical Methods were performed

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK2518
Sample ID: 201706005

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	36.2 ug/L	50.0	72	(41%-99%)
›enzene-d5	3510/8270 PAH Extend list Liquid "As Received"	36.5 ug/L	50.0	73	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	34.8 ug/L	50.0	70	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	45.9 ug/L	50.0	92	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	44.1 ug/L	50.0	88	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	52.9 ug/L	50.0	106	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	48.4 ug/L	50.0	97	(84%-121%)

Notes:
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** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Report Date: April 9, 2008

Client Sample ID: AK2518
Sample ID: 201706005

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2618
Sample ID: 201706006
Matrix: Water
Collect Date: 25-JAN-08 14:45
Receive Date: 26-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		25.5	0.500	2.00	ug/L	1	BAJ	02/05/08	2131	722678	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	1.39	3.96	ug/L	4	NAG1	01/30/08	1824	722376	2
2-Methylnaphthalene	U	ND	1.19	3.96	ug/L	4					
Acenaphthene	U	ND	1.23	3.96	ug/L	4					
Acenaphthylene	U	ND	0.792	3.96	ug/L	4					
Anthracene	U	ND	0.792	3.96	ug/L	4					
Benzo(a)anthracene	U	ND	0.792	3.96	ug/L	4					
Benzo(a)pyrene	U	ND	0.792	3.96	ug/L	4					
Benzo(b)fluoranthene	U	ND	0.792	3.96	ug/L	4					
Benzo(ghi)perylene	U	ND	0.792	3.96	ug/L	4					
Benzo(k)fluoranthene	U	ND	0.792	3.96	ug/L	4					
Chrysene	U	ND	0.792	3.96	ug/L	4					
Dibenzo(a,h)anthracene	U	ND	0.792	3.96	ug/L	4					
Fluoranthene	U	ND	0.792	3.96	ug/L	4					
Fluorene	U	ND	0.792	3.96	ug/L	4					
Indeno(1,2,3-cd)pyrene	U	ND	0.792	3.96	ug/L	4					
Naphthalene	J	3.41	1.19	3.96	ug/L	4					
Phenanthrene	U	ND	0.792	3.96	ug/L	4					
Pyrene	U	ND	1.19	3.96	ug/L	4					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene		382	3.00	10.0	ug/L	10	ACJ	02/07/08	2159	724348	3
Ethylbenzene		620	2.50	10.0	ug/L	10					
Toluene	E	2680	2.50	10.0	ug/L	10					
Xylenes (total)	B	2430	2.50	10.0	ug/L	10					
Benzene		413	15.0	50.0	ug/L	50	ACJ	02/08/08	1525	724348	4
Ethylbenzene		635	12.5	50.0	ug/L	50					
Toluene		3280	12.5	50.0	ug/L	50					
Xylenes (total)	B	2580	12.5	50.0	ug/L	50					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1931	722675

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK2618
Sample ID: 201706006

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			SXC2	01/30/08	1423	722374			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

ogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	38.2 ug/L	49.5	77	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	40.1 ug/L	49.5	81	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	33.7 ug/L	49.5	68	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	440 ug/L	50.0	88	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	437 ug/L	50.0	87	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	511 ug/L	50.0	102	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	478 ug/L	50.0	96	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	2470 ug/L	50.0	99	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	2280 ug/L	50.0	91	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	2770 ug/L	50.0	111	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	2410 ug/L	50.0	96	(84%-121%)

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

: Analyte is a surrogate compound

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK2618
Sample ID: 201706006

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
F Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded
Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 18, 2008

Client Sample ID: AK2714
Sample ID: 201710002
Matrix: Water
Collect Date: 26-JAN-08 08:48
Receive Date: 27-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		11.2	0.500	2.00	ug/L	1	BAJ	02/05/08	2147	722678	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	RMB	01/31/08	1323	722660	2
2-Methylnaphthalene		1.20	0.300	1.00	ug/L	1					
Acenaphthene	U	ND	0.310	1.00	ug/L	1					
Acenaphthylene	U	ND	0.200	1.00	ug/L	1					
Anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Chrysene	U	ND	0.200	1.00	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1					
Fluoranthene	U	ND	0.200	1.00	ug/L	1					
Fluorene	U	ND	0.200	1.00	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1					
Naphthalene	U	ND	0.300	1.00	ug/L	1					
Phenanthrene	U	ND	0.200	1.00	ug/L	1					
Pyrene	U	ND	0.300	1.00	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene		208	30.0	100	ug/L	100	ACJ	02/09/08	1638	724348	3
Ethylbenzene		543	25.0	100	ug/L	100					
Toluene		5210	25.0	100	ug/L	100					
Xylenes (total)		2160	25.0	100	ug/L	100					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1931	722675
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	SXL3	01/30/08	1714	722659

The following Analytical Methods were performed

Certificate of Analysis

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

Report Date: April 18, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2714
Sample ID: 201710002

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	33.2 ug/L	50.0	66	(41%-99%)
enzene-d5	3510/8270 PAH Extend list Liquid "As Received"	37.6 ug/L	50.0	75	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	42.5 ug/L	50.0	85	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	4750 ug/L	50.0	95	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	4360 ug/L	50.0	87	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	5090 ug/L	50.0	102	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	4730 ug/L	50.0	95	(84%-121%)

Notes:
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** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

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Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Report Date: April 18, 2008

Client Sample ID: AK2714
Sample ID: 201710002

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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: April 18, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2718
Sample ID: 201710001
Matrix: Water
Collect Date: 26-JAN-08 08:48
Receive Date: 27-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		10.3	0.500	2.00	ug/L	1	BAJ	02/05/08	2141	722678	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	RMB	01/31/08	1302	722660	2
2-Methylnaphthalene		1.15	0.300	1.00	ug/L	1					
Acenaphthene	U	ND	0.310	1.00	ug/L	1					
Acenaphthylene	U	ND	0.200	1.00	ug/L	1					
Anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Chrysene	U	ND	0.200	1.00	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1					
Fluoranthene	U	ND	0.200	1.00	ug/L	1					
Fluorene	U	ND	0.200	1.00	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1					
Naphthalene	U	ND	0.300	1.00	ug/L	1					
Phenanthrene	U	ND	0.200	1.00	ug/L	1					
Pyrene	U	ND	0.300	1.00	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene		271	30.0	100	ug/L	100	ACJ	02/09/08	1610	724348	3
Ethylbenzene		680	25.0	100	ug/L	100					
Toluene		6570	25.0	100	ug/L	100					
Xylenes (total)		2720	25.0	100	ug/L	100					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1931	722675
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	SXL3	01/30/08	1714	722659

The following Analytical Methods were performed

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 18, 2008

Client Sample ID: AK2718
Sample ID: 201710001

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	36.0 ug/L	50.0	72	(41%-99%)
ɔbenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	38.8 ug/L	50.0	78	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	48.6 ug/L	50.0	97	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	4880 ug/L	50.0	98	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	4570 ug/L	50.0	91	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	5220 ug/L	50.0	104	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	4910 ug/L	50.0	98	(84%-121%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Report Date: April 18, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2718
Sample ID: 201710001

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GEL 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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 18, 2008

Client Sample ID: AK2818
Sample ID: 201710003
Matrix: Water
Collect Date: 26-JAN-08 09:56
Receive Date: 27-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		25.8	0.500	2.00	ug/L	1	BAJ	02/05/08	2202	722678	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	RMB	01/31/08	1344	722660	2
2-Methylnaphthalene		2.07	0.300	1.00	ug/L	1					
Acenaphthene	U	ND	0.310	1.00	ug/L	1					
Acenaphthylene	U	ND	0.200	1.00	ug/L	1					
Anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Chrysene	U	ND	0.200	1.00	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1					
Fluoranthene	U	ND	0.200	1.00	ug/L	1					
Fluorene	U	ND	0.200	1.00	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1					
Naphthalene		10.3	0.300	1.00	ug/L	1					
Phenanthrene	U	ND	0.200	1.00	ug/L	1					
Pyrene	U	ND	0.300	1.00	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene		1360	6.00	20.0	ug/L	20	ACJ	02/09/08	1244	724348	3
Ethylbenzene		715	5.00	20.0	ug/L	20					
Toluene		555	5.00	20.0	ug/L	20					
Xylenes (total)		2650	5.00	20.0	ug/L	20					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1931	722675
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	SXL3	01/30/08	1714	722659

The following Analytical Methods were performed

Certificate of Analysis

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

Report Date: April 18, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK2818
Sample ID: 201710003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	35.8 ug/L	50.0	72	(41%-99%)
›enzene-d5	3510/8270 PAH Extend list Liquid "As Received"	40.3 ug/L	50.0	81	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	44.1 ug/L	50.0	88	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	967 ug/L	50.0	97	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	863 ug/L	50.0	86	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	1030 ug/L	50.0	103	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	942 ug/L	50.0	94	(84%-121%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Report Date: April 18, 2008

Client Sample ID: AK2818
Sample ID: 201710003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GEL 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: April 18, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc
Investigations 01-1055-04-3056-20

Client Sample ID: AK2918
Sample ID: 201710004
Matrix: Water
Collect Date: 26-JAN-08 10:53
Receive Date: 27-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		29.4	0.500	2.00	ug/L	1	BAJ	02/05/08	2207	722678	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	RMB	01/31/08	1405	722660	2
[illegible]ethylnaphthalene		1.54	0.300	1.00	ug/L	1					
[illegible]phthene	U	ND	0.310	1.00	ug/L	1					
[illegible]phthylene	U	ND	0.200	1.00	ug/L	1					
Anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Chrysene	U	ND	0.200	1.00	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1					
Fluoranthene	U	ND	0.200	1.00	ug/L	1					
Fluorene	U	ND	0.200	1.00	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1					
Naphthalene		7.36	0.300	1.00	ug/L	1					
Phenanthrene	U	ND	0.200	1.00	ug/L	1					
Pyrene	U	ND	0.300	1.00	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene		709	6.00	20.0	ug/L	20	ACJ	02/09/08	1312	724348	3
Ethylbenzene		919	5.00	20.0	ug/L	20					
Toluene		292	5.00	20.0	ug/L	20					
Xylenes (total)		3490	5.00	20.0	ug/L	20					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1931	722675
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	SXL3	01/30/08	1714	722659

The following Analytical Methods were performed

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 18, 2008

Client Sample ID: AK2918
Sample ID: 201710004

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	31.2 ug/L	50.0	62	(41%-99%)
.obenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	37.9 ug/L	50.0	76	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	39.7 ug/L	50.0	79	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	919 ug/L	50.0	92	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	880 ug/L	50.0	88	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	1010 ug/L	50.0	101	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	948 ug/L	50.0	95	(84%-121%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Report Date: April 18, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK2918
Sample ID: 201710004

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
" Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 18, 2008

Client Sample ID: AK3018
Sample ID: 201710005
Matrix: Water
Collect Date: 26-JAN-08 12:06
Receive Date: 27-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		14.1	0.500	2.00	ug/L	1	BAJ	02/05/08	2213	722678	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	RMB	01/31/08	1426	722660	2
ethylnaphthalene	J	0.462	0.300	1.00	ug/L	1					
aphthene	U	ND	0.310	1.00	ug/L	1					
Acenaphthylene	U	ND	0.200	1.00	ug/L	1					
Anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Chrysene	U	ND	0.200	1.00	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1					
Fluoranthene	U	ND	0.200	1.00	ug/L	1					
Fluorene	U	ND	0.200	1.00	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1					
Naphthalene		1.14	0.300	1.00	ug/L	1					
Phenanthrene	U	ND	0.200	1.00	ug/L	1					
Pyrene	U	ND	0.300	1.00	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene		10.4	1.50	5.00	ug/L	5	ACJ	02/09/08	1340	724348	3
Ethylbenzene		70.3	1.25	5.00	ug/L	5					
Toluene	J	2.04	1.25	5.00	ug/L	5					
Xylenes (total)		330	1.25	5.00	ug/L	5					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1931	722675
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	SXL3	01/30/08	1714	722659

The following Analytical Methods were performed

Certificate of Analysis

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

Report Date: April 18, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK3018
Sample ID: 201710005

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	30.8 ug/L	50.0	62	(41%-99%)
enzene-d5	3510/8270 PAH Extend list Liquid "As Received"	34.5 ug/L	50.0	69	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	42.5 ug/L	50.0	85	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	223 ug/L	50.0	89	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	213 ug/L	50.0	85	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	246 ug/L	50.0	98	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	232 ug/L	50.0	93	(84%-121%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 18, 2008

Client Sample ID: AK3018
Sample ID: 201710005

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
" Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GEL 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: April 18, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK3118
Sample ID: 201710006
Matrix: Water
Collect Date: 26-JAN-08 13:30
Receive Date: 27-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		13.0	0.500	2.00	ug/L	1	BAJ	02/05/08	2218	722678	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	RMB	02/04/08	1258	723302	2
[illegible]ethylnaphthalene	U	ND	0.300	1.00	ug/L	1					
[illegible]phthene	U	ND	0.310	1.00	ug/L	1					
[illegible]phthylene	U	ND	0.200	1.00	ug/L	1					
Anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Chrysene	U	ND	0.200	1.00	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1					
Fluoranthene	U	ND	0.200	1.00	ug/L	1					
Fluorene	U	ND	0.200	1.00	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1					
Naphthalene	U	ND	0.300	1.00	ug/L	1					
Phenanthrene	U	ND	0.200	1.00	ug/L	1					
Pyrene	U	ND	0.300	1.00	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene	U	ND	0.300	1.00	ug/L	1	ACJ	02/09/08	1022	724348	3
Ethylbenzene	J	0.579	0.250	1.00	ug/L	1					
Toluene	J	0.270	0.250	1.00	ug/L	1					
Xylenes (total)		1.74	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1931	722675
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	MXM2	02/01/08	1725	723301
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	SXL3	01/30/08	1714	722659

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 18, 2008

Client Sample ID: AK3118
Sample ID: 201710006

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	21.1 ug/L	50.0	42	(41%-99%)
ɔbenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	22.4 ug/L	50.0	45	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	23.0 ug/L	50.0	46	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	51.5 ug/L	50.0	103	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	46.8 ug/L	50.0	94	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	54.3 ug/L	50.0	109	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	50.1 ug/L	50.0	100	(84%-121%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Report Date: April 18, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK3118
Sample ID: 201710006

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
" Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on an "as received" basis.
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Valerie Davis
Reviewed by

GEL 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

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Report Date: April 9, 2008

Client Sample ID: AK3214
Sample ID: 201745002
Matrix: Water
Collect Date: 27-JAN-08 08:45
Receive Date: 28-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3005/6020 Lead Federal "As Received"										
Lead		6.41	0.500	2.00	ug/L	1	BAJ 02/05/08	1739	722689	1
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid "As Received"										
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	RMB 02/04/08	1341	723302	2
2-Methylnaphthalene	J	0.518	0.300	1.00	ug/L	1				
Acenaphthene	U	ND	0.310	1.00	ug/L	1				
Acenaphthylene	U	ND	0.200	1.00	ug/L	1				
Anthracene	U	ND	0.200	1.00	ug/L	1				
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1				
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1				
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1				
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1				
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1				
Chrysene	U	ND	0.200	1.00	ug/L	1				
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1				
Fluoranthene	U	ND	0.200	1.00	ug/L	1				
Fluorene	U	ND	0.200	1.00	ug/L	1				
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1				
Naphthalene		2.32	0.300	1.00	ug/L	1				
Phenanthrene	U	ND	0.200	1.00	ug/L	1				
Pyrene	U	ND	0.300	1.00	ug/L	1				
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene		32.5	0.300	1.00	ug/L	1	RXY1 02/08/08	0418	724925	3
Ethylbenzene	E	419	0.250	1.00	ug/L	1				
Toluene	E	1180	0.250	1.00	ug/L	1				
Xylenes (total)		1190	0.250	1.00	ug/L	1				
Benzene		31.1	7.50	25.0	ug/L	25	RXY1 02/09/08	0513	724925	4
Ethylbenzene		439	6.25	25.0	ug/L	25				
Toluene		2240	6.25	25.0	ug/L	25				
Xylenes (total)		1620	6.25	25.0	ug/L	25				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1927	722688

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK3214
Sample ID: 201745002

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			MXM2	02/01/08	1725	723301			
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			ZXM1	01/31/08	1153	722791			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

gate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	40.8 ug/L	50.0	82	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	38.8 ug/L	50.0	78	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	42.6 ug/L	50.0	85	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	63.9 ug/L	65.0	98	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	59.6 ug/L	65.0	92	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	64.8 ug/L	65.0	100	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	62.1 ug/L	65.0	96	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	1670 ug/L	65.0	103	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	1520 ug/L	65.0	94	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	1620 ug/L	65.0	100	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	1610 ug/L	65.0	99	(84%-121%)

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

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Report Date: April 9, 2008

Client Sample ID: AK3214
Sample ID: 201745002

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK3218
Sample ID: 201745001
Matrix: Water
Collect Date: 27-JAN-08 08:45
Receive Date: 28-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		7.90	0.500	2.00	ug/L	1	BAJ	02/05/08	1728	722689	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	RMB	02/04/08	1320	723302	2
2-Methylnaphthalene	J	0.515	0.300	1.00	ug/L	1					
Acenaphthene	U	ND	0.310	1.00	ug/L	1					
Acenaphthylene	U	ND	0.200	1.00	ug/L	1					
Anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Chrysene	U	ND	0.200	1.00	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1					
Fluoranthene	U	ND	0.200	1.00	ug/L	1					
Fluorene	U	ND	0.200	1.00	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1					
Naphthalene		2.30	0.300	1.00	ug/L	1					
Phenanthrene	U	ND	0.200	1.00	ug/L	1					
Pyrene	U	ND	0.300	1.00	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene		37.0	0.300	1.00	ug/L	1	RXY1	02/08/08	0350	724925	3
Ethylbenzene	E	470	0.250	1.00	ug/L	1					
Toluene	E	1280	0.250	1.00	ug/L	1					
Xylenes (total)		1300	0.250	1.00	ug/L	1					
Benzene		32.7	7.50	25.0	ug/L	25	RXY1	02/09/08	0445	724925	4
Ethylbenzene		472	6.25	25.0	ug/L	25					
Toluene		2300	6.25	25.0	ug/L	25					
Xylenes (total)		1810	6.25	25.0	ug/L	25					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1927	722688

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK3218
Sample ID: 201745001

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			MXM2	02/01/08	1725	723301			
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			ZXM1	01/31/08	1153	722791			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	42.5 ug/L	50.0	85	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	40.3 ug/L	50.0	81	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	43.1 ug/L	50.0	86	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	65.5 ug/L	65.0	101	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	59.4 ug/L	65.0	91	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	63.8 ug/L	65.0	98	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	59.6 ug/L	65.0	92	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	1660 ug/L	65.0	102	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	1500 ug/L	65.0	92	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	1610 ug/L	65.0	99	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	1560 ug/L	65.0	96	(84%-121%)

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

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK3218
Sample ID: 201745001

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
F Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK3318
Sample ID: 201745003
Matrix: Water
Collect Date: 27-JAN-08 09:56
Receive Date: 28-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3005/6020 Lead Federal "As Received"										
Lead		6.99	0.500	2.00	ug/L	1	BAJ 02/05/08	1754	722689	1
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid "As Received"										
2-Chloronaphthalene	U	ND	0.361	1.03	ug/L	1	AGS1 01/31/08	2242	722792	2
2-Methylnaphthalene	J	0.483	0.309	1.03	ug/L	1				
Acenaphthene	U	ND	0.320	1.03	ug/L	1				
Acenaphthylene	U	ND	0.206	1.03	ug/L	1				
Anthracene	U	ND	0.206	1.03	ug/L	1				
Benzo(a)anthracene	U	ND	0.206	1.03	ug/L	1				
Benzo(a)pyrene	U	ND	0.206	1.03	ug/L	1				
Benzo(b)fluoranthene	U	ND	0.206	1.03	ug/L	1				
Benzo(ghi)perylene	U	ND	0.206	1.03	ug/L	1				
Benzo(k)fluoranthene	U	ND	0.206	1.03	ug/L	1				
Chrysene	U	ND	0.206	1.03	ug/L	1				
Dibenzo(a,h)anthracene	U	ND	0.206	1.03	ug/L	1				
Fluoranthene	U	ND	0.206	1.03	ug/L	1				
Fluorene	U	ND	0.206	1.03	ug/L	1				
Indeno(1,2,3-cd)pyrene	U	ND	0.206	1.03	ug/L	1				
Naphthalene		1.81	0.309	1.03	ug/L	1				
Phenanthrene	U	ND	0.206	1.03	ug/L	1				
Pyrene	U	ND	0.309	1.03	ug/L	1				
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene		153	7.50	25.0	ug/L	25	RXY1 02/09/08	0541	724925	3
Ethylbenzene		424	6.25	25.0	ug/L	25				
Toluene	E	3760	6.25	25.0	ug/L	25				
Xylenes (total)		1790	6.25	25.0	ug/L	25				
Benzene		155	30.0	100	ug/L	100	RXY1 02/09/08	1052	724925	4
Ethylbenzene		435	25.0	100	ug/L	100				
Toluene		3700	25.0	100	ug/L	100				
Xylenes (total)		1790	25.0	100	ug/L	100				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1927	722688

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK3318
Sample ID: 201745003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			ZXM1	01/31/08	1153	722791			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

ogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
orobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	23.0 ug/L	51.5	45	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	44.5 ug/L	51.5	86	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	36.2 ug/L	51.5	70	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	1670 ug/L	65.0	103	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	1470 ug/L	65.0	91	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	1620 ug/L	65.0	100	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	1580 ug/L	65.0	97	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	6550 ug/L	65.0	101	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	5960 ug/L	65.0	92	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	6360 ug/L	65.0	98	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	6110 ug/L	65.0	94	(84%-121%)

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

* Analyte is a surrogate compound

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK3318
Sample ID: 201745003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
F Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).
Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK3418
Sample ID: 201745004
Matrix: Water
Collect Date: 27-JAN-08 10:56
Receive Date: 28-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		18.8	0.500	2.00	ug/L	1	BAJ	02/05/08	1759	722689	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	AGS1	01/31/08	2303	722792	2
2-Methylnaphthalene	J	0.692	0.300	1.00	ug/L	1					
Acenaphthene	U	ND	0.310	1.00	ug/L	1					
Acenaphthylene	U	ND	0.200	1.00	ug/L	1					
Anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Chrysene	U	ND	0.200	1.00	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1					
Fluoranthene	U	ND	0.200	1.00	ug/L	1					
Fluorene	U	ND	0.200	1.00	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1					
Naphthalene		3.60	0.300	1.00	ug/L	1					
Phenanthrene	U	ND	0.200	1.00	ug/L	1					
Pyrene	U	ND	0.300	1.00	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene		434	7.50	25.0	ug/L	25	RXY1	02/09/08	0609	724925	3
Ethylbenzene		673	6.25	25.0	ug/L	25					
Toluene	E	3980	6.25	25.0	ug/L	25					
Xylenes (total)		1380	6.25	25.0	ug/L	25					
Benzene		452	30.0	100	ug/L	100	RXY1	02/09/08	1121	724925	4
Ethylbenzene		725	25.0	100	ug/L	100					
Toluene		4030	25.0	100	ug/L	100					
Xylenes (total)		1430	25.0	100	ug/L	100					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1927	722688

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK3418
Sample ID: 201745004

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			ZXM1	01/31/08	1153	722791			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

ogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	28.0 ug/L	50.0	56	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	46.9 ug/L	50.0	94	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	39.0 ug/L	50.0	78	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	1680 ug/L	65.0	104	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	1500 ug/L	65.0	92	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	1630 ug/L	65.0	100	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	1560 ug/L	65.0	96	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	6470 ug/L	65.0	100	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	5920 ug/L	65.0	91	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	6280 ug/L	65.0	97	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	5980 ug/L	65.0	92	(84%-121%)

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

* Analyte is a surrogate compound

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Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK3418 Project: SAIC08507
Sample ID: 201745004 Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
F Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded
√alue is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GEL LABORATORIES LLC

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Certificate of Analysis

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

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Report Date: April 9, 2008

Client Sample ID: AK3518
Sample ID: 201745005
Matrix: Water
Collect Date: 27-JAN-08 13:20
Receive Date: 28-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3005/6020 Lead Federal "As Received"										
Lead		27.2	0.500	2.00	ug/L	1	BAJ 02/05/08	1805	722689	1
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid "As Received"										
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	AGS1 01/31/08	2324	722792	2
2-Methylnaphthalene	J	0.780	0.300	1.00	ug/L	1				
Naphthene	U	ND	0.310	1.00	ug/L	1				
Acenaphthylene	U	ND	0.200	1.00	ug/L	1				
Anthracene	U	ND	0.200	1.00	ug/L	1				
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1				
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1				
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1				
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1				
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1				
Chrysene	U	ND	0.200	1.00	ug/L	1				
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1				
Fluoranthene	U	ND	0.200	1.00	ug/L	1				
Fluorene	U	ND	0.200	1.00	ug/L	1				
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1				
Naphthalene	U	ND	0.300	1.00	ug/L	1				
Phenanthrene	U	ND	0.200	1.00	ug/L	1				
Pyrene	U	ND	0.300	1.00	ug/L	1				
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene		157	3.00	10.0	ug/L	10	RXY1 02/09/08	0637	724925	3
Ethylbenzene	E	1000	2.50	10.0	ug/L	10				
Toluene		276	2.50	10.0	ug/L	10				
Xylenes (total)		4490	2.50	10.0	ug/L	10				
Benzene		149	15.0	50.0	ug/L	50	RXY1 02/09/08	1149	724925	4
Ethylbenzene		952	12.5	50.0	ug/L	50				
Toluene		267	12.5	50.0	ug/L	50				
Xylenes (total)		3910	12.5	50.0	ug/L	50				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1927	722688

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK3518
Sample ID: 201745005

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			ZXM1	01/31/08	1153	722791			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

ogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
orobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	29.2 ug/L	50.0	58	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	56.8 ug/L	50.0	114*	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	35.9 ug/L	50.0	72	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	679 ug/L	65.0	104	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	593 ug/L	65.0	91	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	658 ug/L	65.0	101	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	630 ug/L	65.0	97	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	3170 ug/L	65.0	97	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	2940 ug/L	65.0	90	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	3130 ug/L	65.0	96	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	3080 ug/L	65.0	95	(84%-121%)

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

* Analyte is a surrogate compound

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK3518
Sample ID: 201745005

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
F Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).
Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GEL LABORATORIES LLC

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Certificate of Analysis

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

Report Date: April 18, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK3618	Project:	SAIC08507
Sample ID:	201710008	Client ID:	SAIC085
Matrix:	Water		
Collect Date:	26-JAN-08 15:33		
Receive Date:	27-JAN-08		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		36.4	0.500	2.00	ug/L	1	BAJ	02/05/08	2228	722678	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	RMB	01/31/08	1529	722660	2
2-Methylnaphthalene		1.10	0.300	1.00	ug/L	1					
Acenaphthene	U	ND	0.310	1.00	ug/L	1					
Acenaphthylene	U	ND	0.200	1.00	ug/L	1					
Anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Chrysene	U	ND	0.200	1.00	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1					
Fluoranthene	U	ND	0.200	1.00	ug/L	1					
Fluorene	U	ND	0.200	1.00	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1					
Naphthalene		3.70	0.300	1.00	ug/L	1					
Phenanthrene	U	ND	0.200	1.00	ug/L	1					
Pyrene	U	ND	0.300	1.00	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene	J	9.87	3.00	10.0	ug/L	10	ACJ	02/08/08	2200	724348	3
Ethylbenzene		447	2.50	10.0	ug/L	10					
Toluene	J	9.19	2.50	10.0	ug/L	10					
Xylenes (total)	B	1720	2.50	10.0	ug/L	10					
Benzene		9.47	1.50	5.00	ug/L	5	ACJ	02/09/08	1409	724348	4
Ethylbenzene		424	1.25	5.00	ug/L	5					
Toluene		8.85	1.25	5.00	ug/L	5					
Xylenes (total)		1570	1.25	5.00	ug/L	5					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1931	722675

Certificate of Analysis

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

Report Date: April 18, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK3618
Sample ID: 201710008

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			SXL3	01/30/08	1714	722659			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

ogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	33.1 ug/L	50.0	66	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	33.2 ug/L	50.0	66	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	38.5 ug/L	50.0	77	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	436 ug/L	50.0	87	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	424 ug/L	50.0	85	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	508 ug/L	50.0	102	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	466 ug/L	50.0	93	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	230 ug/L	50.0	92	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	220 ug/L	50.0	88	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	255 ug/L	50.0	102	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	240 ug/L	50.0	96	(84%-121%)

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

Analyte is a surrogate compound

Certificate of Analysis

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

Report Date: April 18, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK3618 Project: SAIC08507
Sample ID: 201710008 Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
r Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded
Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GEL 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: April 18, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK3718
Sample ID: 201710007
Matrix: Water
Collect Date: 26-JAN-08 14:25
Receive Date: 27-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		7.62	0.500	2.00	ug/L	1	BAJ	02/05/08	2223	722678	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	RMB	01/31/08	1508	722660	2
2-Methylnaphthalene	U	ND	0.300	1.00	ug/L	1					
Naphthene	U	ND	0.310	1.00	ug/L	1					
Acenaphthylene	U	ND	0.200	1.00	ug/L	1					
Anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Chrysene	U	ND	0.200	1.00	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1					
Fluoranthene	U	ND	0.200	1.00	ug/L	1					
Fluorene	U	ND	0.200	1.00	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1					
Naphthalene	U	ND	0.300	1.00	ug/L	1					
Phenanthrene	U	ND	0.200	1.00	ug/L	1					
Pyrene	U	ND	0.300	1.00	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene	U	ND	0.300	1.00	ug/L	1	ACJ	02/09/08	1051	724348	3
Ethylbenzene	U	ND	0.250	1.00	ug/L	1					
Toluene	U	ND	0.250	1.00	ug/L	1					
Xylenes (total)	J	0.301	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1931	722675
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	SXL3	01/30/08	1714	722659

The following Analytical Methods were performed

Certificate of Analysis

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

Report Date: April 18, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK3718
Sample ID: 201710007

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	26.2 ug/L	50.0	52	(41%-99%)
›enzene-d5	3510/8270 PAH Extend list Liquid "As Received"	33.0 ug/L	50.0	66	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	36.9 ug/L	50.0	74	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	48.9 ug/L	50.0	98	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	45.5 ug/L	50.0	91	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	53.3 ug/L	50.0	107	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	49.4 ug/L	50.0	99	(84%-121%)

Notes:
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< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Report Date: April 18, 2008

Client Sample ID: AK3718
Sample ID: 201710007

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
" Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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Valerie Davis
Reviewed by

GEL 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: April 9, 2008

Contact: Leslie Barbour
Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID:	AK3818	Project:	SAIC007202
Sample ID:	201112014	Client ID:	SAIC072
Matrix:	Water		
Collect Date:	16-JAN-08 12:51		
Receive Date:	17-JAN-08		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3005/6020 Lead Federal "As Received"										
Lead		5.98	0.500	2.00	ug/L	1	RMJ 01/23/08	1901	719260	1
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid "As Received"										
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	RMB 01/21/08	1646	719340	2
[illegible]ethylnaphthalene	J	0.591	0.300	1.00	ug/L	1				
[illegible]phthene	U	ND	0.310	1.00	ug/L	1				
[illegible]aphthylene	U	ND	0.200	1.00	ug/L	1				
Anthracene	U	ND	0.200	1.00	ug/L	1				
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1				
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1				
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1				
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1				
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1				
Chrysene	U	ND	0.200	1.00	ug/L	1				
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1				
Fluoranthene	U	ND	0.200	1.00	ug/L	1				
Fluorene	U	ND	0.200	1.00	ug/L	1				
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1				
Naphthalene		1.98	0.300	1.00	ug/L	1				
Phenanthrene	U	ND	0.200	1.00	ug/L	1				
Pyrene	U	ND	0.300	1.00	ug/L	1				
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene		1.28	0.300	1.00	ug/L	1	CDS1 01/28/08	1656	720957	3
Ethylbenzene	E	281	0.250	1.00	ug/L	1				
Toluene	E	335	0.250	1.00	ug/L	1				
Xylenes (total)		1080	0.250	1.00	ug/L	1				
Benzene	U	ND	3.00	10.0	ug/L	10	CDS1 01/29/08	2328	720957	4
Ethylbenzene		338	2.50	10.0	ug/L	10				
Toluene		385	2.50	10.0	ug/L	10				
Xylenes (total)		1220	2.50	10.0	ug/L	10				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
[illegible]846 3005A	ICP-MS 3005 PREP	BXA1	01/21/08	1857	719259

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK3818
Sample ID: 201112014

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			SXL3	01/18/08	1728	719339			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

›gate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	42.3 ug/L	50.0	85	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	37.0 ug/L	50.0	74	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	45.0 ug/L	50.0	90	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	64.7 ug/L	60.0	108	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	61.6 ug/L	60.0	103	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	67.2 ug/L	60.0	112	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	65.1 ug/L	60.0	108	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	606 ug/L	60.0	101	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	637 ug/L	60.0	106	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	645 ug/L	60.0	107	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	666 ug/L	60.0	111	(84%-121%)

Notes:
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Analyte is a surrogate compound

GEL LABORATORIES LLC
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Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour
Project: **Hunter Army Airfield LTM (01-1055-04-2945-200)**

Client Sample ID: AK3818
Sample ID: 201112014

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
F Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded
Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

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

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Report Date: April 9, 2008

Client Sample ID: AK3918
Sample ID: 201112015
Matrix: Water
Collect Date: 16-JAN-08 13:43
Receive Date: 17-JAN-08
Collector: Client

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3005/6020 Lead Federal "As Received"										
Lead		11.2	0.500	2.00	ug/L	1	RMJ 01/23/08	1904	719260	1
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid "As Received"										
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	RMB 01/21/08	1708	719340	2
[illegible]ethylnaphthalene	U	ND	0.300	1.00	ug/L	1				
[illegible]aphthene	U	ND	0.310	1.00	ug/L	1				
Acenaphthylene	U	ND	0.200	1.00	ug/L	1				
Anthracene	U	ND	0.200	1.00	ug/L	1				
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1				
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1				
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1				
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1				
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1				
Chrysene	U	ND	0.200	1.00	ug/L	1				
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1				
Fluoranthene	U	ND	0.200	1.00	ug/L	1				
Fluorene	U	ND	0.200	1.00	ug/L	1				
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1				
Naphthalene	J	0.441	0.300	1.00	ug/L	1				
Phenanthrene	U	ND	0.200	1.00	ug/L	1				
Pyrene	U	ND	0.300	1.00	ug/L	1				
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene		2.04	0.300	1.00	ug/L	1	CDS1 01/28/08	1724	720957	3
Ethylbenzene	E	118	0.250	1.00	ug/L	1				
Toluene	E	499	0.250	1.00	ug/L	1				
Xylenes (total)		475	0.250	1.00	ug/L	1				
Benzene	J	3.10	3.00	10.0	ug/L	10	CDS1 01/29/08	2357	720957	4
Ethylbenzene		120	2.50	10.0	ug/L	10				
Toluene		555	2.50	10.0	ug/L	10				
Xylenes (total)		478	2.50	10.0	ug/L	10				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
[illegible]846 3005A	ICP-MS 3005 PREP	BXA1	01/21/08	1857	719259

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Leslie Barbour

Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK3918
Sample ID: 201112015

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			SXL3	01/18/08	1728	719339			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

ogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
.orobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	32.9 ug/L	50.0	66	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	33.0 ug/L	50.0	66	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	39.3 ug/L	50.0	79	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	63.7 ug/L	60.0	106	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	61.7 ug/L	60.0	103	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	64.7 ug/L	60.0	108	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	65.4 ug/L	60.0	109	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	621 ug/L	60.0	103	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	644 ug/L	60.0	107	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	642 ug/L	60.0	107	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	654 ug/L	60.0	109	(84%-121%)

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

Analyte is a surrogate compound

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
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Report Date: April 9, 2008

Contact: Leslie Barbour
Project: Hunter Army Airfield LTM (01-1055-04-2945-200)

Client Sample ID: AK3918
Sample ID: 201112015

Project: SAIC007202
Client ID: SAIC072

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
F Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).
Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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Valerie Davis
Reviewed by

GEL 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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK4018
Sample ID: 201537009
Matrix: Ground Water
Collect Date: 23-JAN-08 16:28
Receive Date: 24-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3005/6020 Lead Federal "As Received"										
Lead		16.2	0.500	2.00	ug/L	1	RMJ 02/01/08	0623	721437	1
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid "As Received"										
2-Chloronaphthalene	U	ND	1.40	4.00	ug/L	4	BJB1 01/29/08	1441	721970	2
2-Methylnaphthalene	U	ND	1.20	4.00	ug/L	4				
Acenaphthene	U	ND	1.24	4.00	ug/L	4				
Acenaphthylene	U	ND	0.800	4.00	ug/L	4				
Anthracene	U	ND	0.800	4.00	ug/L	4				
Benzo(a)anthracene	U	ND	0.800	4.00	ug/L	4				
Benzo(a)pyrene	U	ND	0.800	4.00	ug/L	4				
Benzo(b)fluoranthene	U	ND	0.800	4.00	ug/L	4				
Benzo(ghi)perylene	U	ND	0.800	4.00	ug/L	4				
Benzo(k)fluoranthene	U	ND	0.800	4.00	ug/L	4				
Chrysene	U	ND	0.800	4.00	ug/L	4				
Dibenzo(a,h)anthracene	U	ND	0.800	4.00	ug/L	4				
Fluoranthene	U	ND	0.800	4.00	ug/L	4				
Fluorene	U	ND	0.800	4.00	ug/L	4				
Indeno(1,2,3-cd)pyrene	U	ND	0.800	4.00	ug/L	4				
Naphthalene	U	ND	1.20	4.00	ug/L	4				
Phenanthrene	U	ND	0.800	4.00	ug/L	4				
Pyrene	U	ND	1.20	4.00	ug/L	4				
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene		1.97	0.300	1.00	ug/L	1	CDS1 02/04/08	1752	723384	3
Ethylbenzene		12.9	0.250	1.00	ug/L	1				
Toluene		1.62	0.250	1.00	ug/L	1				
Xylenes (total)		67.3	0.250	1.00	ug/L	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BCD1	01/31/08	0918	721436
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	AXW1	01/28/08	1706	721969

The following Analytical Methods were performed

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Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK4018
Sample ID: 201537009

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	22.8 ug/L	50.0	46	(41%-99%)
,benzene-d5	3510/8270 PAH Extend list Liquid "As Received"	29.0 ug/L	50.0	58	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	23.3 ug/L	50.0	47	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	48.0 ug/L	60.0	80	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	51.0 ug/L	60.0	85	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	71.2 ug/L	60.0	119	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	57.7 ug/L	60.0	96	(84%-121%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

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Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK4018
Sample ID: 201537009

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
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Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK4118
Sample ID: 201745006
Matrix: Water
Collect Date: 27-JAN-08 14:11
Receive Date: 28-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3005/6020 Lead Federal "As Received"										
Lead		112	0.500	2.00	ug/L	1	BAJ 02/05/08	1810	722689	1
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid "As Received"										
2-Chloronaphthalene	U	ND	0.347	0.990	ug/L	1	AGS1 01/31/08	2345	722792	2
2-Methylnaphthalene	J	0.385	0.297	0.990	ug/L	1				
Naphthene	U	ND	0.307	0.990	ug/L	1				
Acenaphthylene	U	ND	0.198	0.990	ug/L	1				
Anthracene	U	ND	0.198	0.990	ug/L	1				
Benzo(a)anthracene	U	ND	0.198	0.990	ug/L	1				
Benzo(a)pyrene	U	ND	0.198	0.990	ug/L	1				
Benzo(b)fluoranthene	U	ND	0.198	0.990	ug/L	1				
Benzo(ghi)perylene	U	ND	0.198	0.990	ug/L	1				
Benzo(k)fluoranthene	U	ND	0.198	0.990	ug/L	1				
Chrysene	U	ND	0.198	0.990	ug/L	1				
Dibenzo(a,h)anthracene	U	ND	0.198	0.990	ug/L	1				
Fluoranthene	U	ND	0.198	0.990	ug/L	1				
Fluorene	U	ND	0.198	0.990	ug/L	1				
Indeno(1,2,3-cd)pyrene	U	ND	0.198	0.990	ug/L	1				
Naphthalene		1.17	0.297	0.990	ug/L	1				
Phenanthrene	U	ND	0.198	0.990	ug/L	1				
Pyrene	U	ND	0.297	0.990	ug/L	1				
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene		12.4	1.50	5.00	ug/L	5	RXY1 02/09/08	0733	724925	3
Ethylbenzene		302	1.25	5.00	ug/L	5				
Toluene		119	1.25	5.00	ug/L	5				
Xylenes (total)		1150	1.25	5.00	ug/L	5				
Benzene		12.3	3.00	10.0	ug/L	10	RXY1 02/09/08	1245	724925	4
Ethylbenzene		313	2.50	10.0	ug/L	10				
Toluene		129	2.50	10.0	ug/L	10				
Xylenes (total)		1180	2.50	10.0	ug/L	10				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1927	722688

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Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK4118
Sample ID: 201745006

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			ZXM1	01/31/08	1153	722791			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

ogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
robiphenyl	3510/8270 PAH Extend list Liquid "As Received"	25.6 ug/L	49.5	52	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	40.9 ug/L	49.5	83	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	34.0 ug/L	49.5	69	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	335 ug/L	65.0	103	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	303 ug/L	65.0	93	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	332 ug/L	65.0	102	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	318 ug/L	65.0	98	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	646 ug/L	65.0	99	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	590 ug/L	65.0	91	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	623 ug/L	65.0	96	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	597 ug/L	65.0	92	(84%-121%)

Notes:
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Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK4118
Sample ID: 201745006

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
F Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).
Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK4218
Sample ID: 201745007
Matrix: Water
Collect Date: 27-JAN-08 15:02
Receive Date: 28-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		67.5	0.500	2.00	ug/L	1	BAJ	02/05/08	1815	722689	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	1.40	4.00	ug/L	4	AGS1	02/01/08	2037	722792	2
2-Methylnaphthalene	U	ND	1.20	4.00	ug/L	4					
Acenaphthene	U	ND	1.24	4.00	ug/L	4					
Acenaphthylene	U	ND	0.800	4.00	ug/L	4					
Anthracene	U	ND	0.800	4.00	ug/L	4					
Benzo(a)anthracene	U	ND	0.800	4.00	ug/L	4					
Benzo(a)pyrene	U	ND	0.800	4.00	ug/L	4					
Benzo(b)fluoranthene	U	ND	0.800	4.00	ug/L	4					
Benzo(ghi)perylene	U	ND	0.800	4.00	ug/L	4					
Benzo(k)fluoranthene	U	ND	0.800	4.00	ug/L	4					
Chrysene	U	ND	0.800	4.00	ug/L	4					
Dibenzo(a,h)anthracene	U	ND	0.800	4.00	ug/L	4					
Fluoranthene	U	ND	0.800	4.00	ug/L	4					
Fluorene	U	ND	0.800	4.00	ug/L	4					
Indeno(1,2,3-cd)pyrene	U	ND	0.800	4.00	ug/L	4					
Naphthalene		7.45	1.20	4.00	ug/L	4					
Phenanthrene	U	ND	0.800	4.00	ug/L	4					
Pyrene	U	ND	1.20	4.00	ug/L	4					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene	U	ND	0.300	1.00	ug/L	1	RXY1	02/09/08	1313	724925	3
Ethylbenzene	E	484	0.250	1.00	ug/L	1					
Toluene		59.9	0.250	1.00	ug/L	1					
Xylenes (total)		1830	0.250	1.00	ug/L	1					
Benzene	U	ND	15.0	50.0	ug/L	50	RXY1	02/09/08	1217	724925	4
Ethylbenzene		480	12.5	50.0	ug/L	50					
Toluene		62.0	12.5	50.0	ug/L	50					
Xylenes (total)		3080	12.5	50.0	ug/L	50					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1927	722688

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Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK4218
Sample ID: 201745007

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed			ZXM1	01/31/08	1153	722791			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	
4	SW846 8260B	

ogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	28.1 ug/L	50.0	56	(41%-99%)
Nitrobenzene-d5	3510/8270 PAH Extend list Liquid "As Received"	94.0 ug/L	50.0	188*	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	40.2 ug/L	50.0	80	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	63.1 ug/L	65.0	97	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	58.9 ug/L	65.0	91	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	63.1 ug/L	65.0	97	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	59.9 ug/L	65.0	92	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	3250 ug/L	65.0	100	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	2910 ug/L	65.0	90	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	3160 ug/L	65.0	97	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	2990 ug/L	65.0	92	(84%-121%)

Notes:
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Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK4218
Sample ID: 201745007

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
Analytical holding time was exceeded
Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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Company : SAIC
Address : 151 Lafayette Drive
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Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK4318
Sample ID: 201811001
Matrix: Water
Collect Date: 28-JAN-08 08:35
Receive Date: 29-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Metals Analysis-ICP-MS										
3005/6020 Lead Federal "As Received"										
Lead	J	0.759	0.500	2.00	ug/L	1	BAJ 02/05/08	1846	722764	1
Semi-volatile Mass spec Organics Federal										
3510/8270 PAH Extend list Liquid "As Received"										
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	RMB 01/31/08	1633	722660	2
[illegible]ethylnaphthalene	U	ND	0.300	1.00	ug/L	1				
[illegible]aphthene	U	ND	0.310	1.00	ug/L	1				
Acenaphthylene	U	ND	0.200	1.00	ug/L	1				
Anthracene	U	ND	0.200	1.00	ug/L	1				
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1				
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1				
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1				
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1				
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1				
Chrysene	U	ND	0.200	1.00	ug/L	1				
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1				
Fluoranthene	U	ND	0.200	1.00	ug/L	1				
Fluorene	U	ND	0.200	1.00	ug/L	1				
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1				
Naphthalene	U	ND	0.300	1.00	ug/L	1				
Phenanthrene	U	ND	0.200	1.00	ug/L	1				
Pyrene	U	ND	0.300	1.00	ug/L	1				
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene	U	ND	0.300	1.00	ug/L	1	ACJ 02/09/08	1803	724959	3
Ethylbenzene	U	ND	0.250	1.00	ug/L	1				
Toluene	U	ND	0.250	1.00	ug/L	1				
Xylenes (total)	J	0.728	0.250	1.00	ug/L	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1932	722763
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	SXL3	01/30/08	1714	722659

The following Analytical Methods were performed

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK4318
Sample ID: 201811001

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	28.3 ug/L	50.0	57	(41%-99%)
benzene-d5	3510/8270 PAH Extend list Liquid "As Received"	32.7 ug/L	50.0	65	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	40.5 ug/L	50.0	81	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	49.8 ug/L	50.0	100	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	46.2 ug/L	50.0	92	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	54.3 ug/L	50.0	109	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	50.1 ug/L	50.0	100	(84%-121%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK4318
Sample ID: 201811001

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GEL 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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID:	AK4418	Project:	SAIC08507
Sample ID:	201811002	Client ID:	SAIC085
Matrix:	Water		
Collect Date:	28-JAN-08 09:42		
Receive Date:	29-JAN-08		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead	U	ND	0.500	2.00	ug/L	1	BAJ	02/05/08	1856	722764	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	RMB	01/31/08	1654	722660	2
2-Methylnaphthalene	U	ND	0.300	1.00	ug/L	1					
Acenaphthene	U	ND	0.310	1.00	ug/L	1					
Acenaphthylene	U	ND	0.200	1.00	ug/L	1					
Anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1					
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Chrysene	U	ND	0.200	1.00	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1					
Fluoranthene	U	ND	0.200	1.00	ug/L	1					
Fluorene	U	ND	0.200	1.00	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1					
Naphthalene	U	ND	0.300	1.00	ug/L	1					
Phenanthrene	U	ND	0.200	1.00	ug/L	1					
Pyrene	U	ND	0.300	1.00	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene	U	ND	0.300	1.00	ug/L	1	ACJ	02/09/08	1831	724959	3
Ethylbenzene	U	ND	0.250	1.00	ug/L	1					
Toluene	U	ND	0.250	1.00	ug/L	1					
Xylenes (total)	J	0.264	0.250	1.00	ug/L	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1932	722763
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	SXL3	01/30/08	1714	722659

The following Analytical Methods were performed

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour

Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Client Sample ID: AK4418
Sample ID: 201811002

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	30.3 ug/L	50.0	61	(41%-99%)
benzene-d5	3510/8270 PAH Extend list Liquid "As Received"	33.8 ug/L	50.0	68	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	39.9 ug/L	50.0	80	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	48.8 ug/L	50.0	98	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	46.1 ug/L	50.0	92	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	52.6 ug/L	50.0	105	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	50.1 ug/L	50.0	100	(84%-121%)

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

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Certificate of Analysis

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

Report Date: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK4418 Project: SAIC08507
Sample ID: 201811002 Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GEL 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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK4518
Sample ID: 201811003
Matrix: Water
Collect Date: 28-JAN-08 11:01
Receive Date: 29-JAN-08
Collector: Client

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
3005/6020 Lead Federal "As Received"											
Lead		39.5	0.500	2.00	ug/L	1	BAJ	02/05/08	1901	722764	1
Semi-volatile Mass spec Organics Federal											
3510/8270 PAH Extend list Liquid "As Received"											
2-Chloronaphthalene	U	ND	0.350	1.00	ug/L	1	RMB	01/31/08	1715	722660	2
[illegible]ethylnaphthalene	U	ND	0.300	1.00	ug/L	1					
aphthene	U	ND	0.310	1.00	ug/L	1					
Acenaphthylene	U	ND	0.200	1.00	ug/L	1					
Anthracene	U	ND	0.200	1.00	ug/L	1					
Benzo(a)anthracene	J	0.528	0.200	1.00	ug/L	1					
Benzo(a)pyrene	U	ND	0.200	1.00	ug/L	1					
Benzo(b)fluoranthene	J	0.294	0.200	1.00	ug/L	1					
Benzo(ghi)perylene	U	ND	0.200	1.00	ug/L	1					
Benzo(k)fluoranthene	U	ND	0.200	1.00	ug/L	1					
Chrysene	J	0.386	0.200	1.00	ug/L	1					
Dibenzo(a,h)anthracene	U	ND	0.200	1.00	ug/L	1					
Fluoranthene	U	ND	0.200	1.00	ug/L	1					
Fluorene	U	ND	0.200	1.00	ug/L	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1					
Naphthalene	U	ND	0.300	1.00	ug/L	1					
Phenanthrene	U	ND	0.200	1.00	ug/L	1					
Pyrene	J	0.668	0.300	1.00	ug/L	1					
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene	U	ND	0.300	1.00	ug/L	1	ACJ	02/09/08	1900	724959	3
Ethylbenzene	U	ND	0.250	1.00	ug/L	1					
Toluene	U	ND	0.250	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 3005A	ICP-MS 3005 PREP	BXA1	02/04/08	1932	722763
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis Fed	SXL3	01/30/08	1714	722659

The following Analytical Methods were performed

Certificate of Analysis

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

Contact: Ms. Leslie Barbour
Project: Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20

Report Date: April 9, 2008

Client Sample ID: AK4518
Sample ID: 201811003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3005/6020	
2	SW846 8270C	
3	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	3510/8270 PAH Extend list Liquid "As Received"	30.4 ug/L	50.0	61	(41%-99%)
enzene-d5	3510/8270 PAH Extend list Liquid "As Received"	37.3 ug/L	50.0	75	(39%-99%)
p-Terphenyl-d14	3510/8270 PAH Extend list Liquid "As Received"	34.5 ug/L	50.0	69	(41%-115%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	48.9 ug/L	50.0	98	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	45.5 ug/L	50.0	91	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	53.3 ug/L	50.0	107	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	49.4 ug/L	50.0	99	(84%-121%)

Notes:
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< Result is less than value reported
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A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
E Organics--Concentration of the target analyte exceeds the instrument calibration range
H Analytical holding time was exceeded
J Value is estimated
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

GEL 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: April 9, 2008

Contact: Ms. Leslie Barbour
Project: **Hunter FY06 Monitoring and Misc Investigations 01-1055-04-3056-20**

Client Sample ID: AK4518
Sample ID: 201811003

Project: SAIC08507
Client ID: SAIC085

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was 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 GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

PUMPHOUSE #1, RELEASE #1
CHAIN-OF-CUSTODY FORMS
JANUARY 2008

Science Applications International Corporation
An Employee-Owned Company
151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

201111%

CHAIN OF CUSTODY RECORD

201112%

COC NO.: PH1ØØ9

PROJECT NAME: Hunter - Pumphouse 1

PROJECT NUMBER: 01-1055-04-2945-200

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

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	PAH	Lead	VOC	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
.1	THØ618	1/13/Ø8	1515	QA				X	2		Trip Blank
.2	AN18Z8	1/14/Ø8	Ø837	GW	X				2		
	AN17Z8	1/14/Ø8	Ø936	GW	X				2		
	AN16Z8	1/14/Ø8	11Ø1	GW	X				2		
	AN15Z8	1/14/Ø8	1153	GW	X				2		
.3	AKØ118	1/15/Ø8	1225	GW	X	X	X		5		25Ø ml poly for MS/MSD
	AKØ218	1/15/Ø8	1334	GW	X	X	X		5		
	AKØ318	1/15/Ø8	1442	GW	X	X	X		5		
	AKØ418	1/15/Ø8	155Ø	GW	X	X	X		5		
	AKØZ14	1/15/Ø8	1334	GW	X	X	X		5		Duplicate
	AKØ718	1/16/Ø8	Ø837	GW	X	X	X		5		
	AKØ714	1/16/Ø8	Ø837	GW	X	X	X		5		Duplicate
	AKØ618	1/16/Ø8	Ø943	GW	X	X	X		5		

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	1/16/Ø8 1700	Fed EX	1/16/Ø8 17ØØ
COMPANY NAME: SAIC		COMPANY NAME: Fed EX	
RECEIVED BY: P. Hirst	Date/Time 1/17/08 0935	RELINQUISHED BY:	Date/Time
COMPANY NAME: D. L. C.		COMPANY NAME:	
RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
COMPANY NAME:		COMPANY NAME:	

TOTAL NUMBER OF CONTAINERS: See pg. 2

Cooler ID:

Cooler Temperature: 4°C

FEDEX NUMBER: 8348 9689 8709

ORIGINAL COC LOCATED IN SIXTH ANNUAL MO REPORT FOR PUMPHOUSE #1, RELEASE #2

Science Applications International Corporation
An Employee-Owned Company
151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

CHAIN OF CUSTODY RECORD

COC NO.: PH1009

PROJECT NAME: Hunter - Pumphouse 1

PROJECT NUMBER: 01-1055-04-2945-200

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

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	PAH	Lead	No. of Bottles/ Vials	OVA SCREENING	OBSERVATIONS, COMMENTS,
AK0518	1/16/08	1048	GW	X			2		
AK3818	1/16/08	1251	GW	X	X	X	5		Insufficient Volume for PAH/Lead.
AK3918	1/16/08	1343	GW	X	X	X	5		

TAC

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	1/16/08 1700	Fed Ex	1/16/08 1700
COMPANY NAME: SAIC		COMPANY NAME: Fed Ex	
RECEIVED BY: Y. Ylent	Date/Time 1/17/08 0930	RELINQUISHED BY:	Date/Time
COMPANY NAME: G.E.L.		COMPANY NAME:	
RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
COMPANY NAME:		COMPANY NAME:	

TOTAL NUMBER OF CONTAINERS: 62

Cooler ID:

Cooler Temperature: 4°C

FEDEX NUMBER: 8348 9689 8709

An Employee-Owned Company
Science Applications International Corporation
151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

20080129911 201010 %

CHAIN OF CUSTODY RECORD

COC NO.: PH1Φ1Φ

PROJECT NAME: Hunter - Pumphouse 1

PROJECT NUMBER: 01-1055-04-2945-200

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

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	PAH	Lead	Moisture Content	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
AKΦ119	1/15/Φ8	12Φ3	Soil	X	X	X		2	4.6 ppm	
AKΦ219	1/15/Φ8	13Φ2	Soil	X	X	X		2	428 ppm	
AKΦ319	1/15/Φ8	1417	Soil	X	X	X		2	89.9 ppm	
AKΦ419	1/15/Φ8	1527	Soil	X	X	X		2	843 ppm	

TSC

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	1/15/Φ8 1830	Fed Ex	1/15/Φ8 1830
COMPANY NAME: SAIC		COMPANY NAME: Fed Ex	
RECEIVED BY: M. Smith	Date/Time 1-16-08 9:35	RELINQUISHED BY:	Date/Time
COMPANY NAME: GEL		COMPANY NAME:	
RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
COMPANY NAME:		COMPANY NAME:	

TOTAL NUMBER OF CONTAINERS: 8

Cooler ID: #12

Cooler Temperature: 4°C

FEDEX NUMBER: 833296553367

PAH and Lead together in same 8oz jar.

Science Applications International Corporation
An Employee-Owned Company
151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

20080129973

CHAIN OF CUSTODY RECORD

COC NO.: PH1011

PROJECT NAME: Hunter - Pumphouse 1

PROJECT NUMBER: 01-1055-04-2945-200

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843)556-8171

REQUESTED PARAMETERS 201086%

Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS.
AK0719	1/16/08	0820	Soil	X	X	X	2	167 ppm	
AK0619	1/16/08	0926	Soil	X	X	X	2	4000 ppm	
AK0519	1/16/08	1023	Soil	X	X	X	2	3330 ppm	
AK3819	1/16/08	1237	Soil	X	X	X	2	122 ppm	
AK3919	1/16/08	1327	Soil	X	X	X	2	3040 ppm	

TC

TC

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	1/16/08 1700	FedEx	1/16/08 1700
COMPANY NAME: SAIC		COMPANY NAME: FedEx	
RECEIVED BY: P. Hunt	Date/Time 1/17/08 0930	RELINQUISHED BY:	Date/Time
COMPANY NAME: U.E.C.	0930 PD	COMPANY NAME: 1/17/08	
RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
COMPANY NAME:		COMPANY NAME:	

TOTAL NUMBER OF CONTAINERS: 10

Cooler Temperature: 4°C

Cooler ID: #13

FEDEX NUMBER: 833296553378

PAH and Lead together in same 8 oz. jar.

Page 1 of 2

An Employee-Owned Company
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151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

201537, 201540

CHAIN OF CUSTODY RECORD

COC NO.: PH1012

PROJECT NAME: Hunter - Pumphouse 1

PROJECT NUMBER: 01-1055-04 ~~2945-200~~ 3056-2006

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

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	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
TH0619	1/23/08	0730	QA	X			2	N/A	Trip Blank
AK0819	1/23/08	0912	Soil	X	X	X	2	3150 ppm	
AK0818	1/23/08	0941	GW	X	X	X	5	N/A	
AK0919	1/23/08	1037	Soil	X	X	X	2	3640 ppm	
AK0915	1/23/08	1010	QA	X	X	X	5	N/A	Eq. Rinsate.
AK0918	1/23/08	1055	GW	X	X	X	5	N/A	
AK1419	1/23/08	1147	Soil	X	X	X	2	840 ppm	
AK1418	1/23/08	1212	GW	X	X	X	5	N/A	
AK1519	1/23/08	1243	Soil	X	X	X	2	2740 ppm	
AK1518	1/23/08	1310	GW	X	X	X	5	N/A	250-ml bottle for as/asD
AK2119	1/23/08	1359	Soil	X	X	X	2	2770 ppm	
AK2118	1/23/08	1418	GW	X	X	X	5	N/A	
AK2019	1/23/08	1441	Soil	X	X	X	2	63.1 ppm	

TOTAL NUMBER OF CONTAINERS: See Pg. 2

Cooler Temperature:

Cooler ID:

FEDEX NUMBER:

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	01/23/08 1900	Wayne H. Pu	01/24/08
COMPANY NAME: SAIC		COMPANY NAME: ~~SAIC~~	
RECEIVED BY: Wayne H Pu	Date/Time 01/23/08 1900	~~RELINQUISHED BY:~~ Rel Ben Watkins	Date/Time 1/24/08
COMPANY NAME: SAIC		~~COMPANY NAME:~~ GEL	
RELINQUISHED BY: Wayne H Pu	Date/Time 01/24/08 1200	RECEIVED BY: ~~GEL~~ Ben Watkins	Date/Time 01/24/08 1200
COMPANY NAME: SAIC		COMPANY NAME: Rev 1 GEL	

Relinquished Ben Watkins 1-24-08 1505

Page 2 of 2

Science Applications International Corporation — An Employee-Owned Company

151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

CHAIN OF CUSTODY RECORD

COC NO.: PH1012

PROJECT NAME: Hunter - Pumphouse 1

PROJECT NUMBER: 01-1055-04-~~2945-200~~ 3456-206

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

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	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
2 AK2018	1/23/08	1515	GW	X	X	X	5	N/A	
3 AK4019	1/23/08	1603	Soil	X	X	X	2	2840 ppm	
2 AK4018	1/23/08	1628	GW	X	X	X	5	N/A	

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 56	Cooler Temperature:
Timothy Coffey	01/23/08 1900	Ben Watkins	01/24/08 1200	Cooler ID:	FEDEX NUMBER:
COMPANY NAME: SAIC		COMPANY NAME: Gel			
RECEIVED BY: Wayne H Pu	~~01/23/08~~ ~~1900~~	RELINQUISHED BY: 01/23/08 WHP	01/23/08	Date/Time	
COMPANY NAME: SAIC		COMPANY NAME: 1900			
RELINQUISHED BY: Wayne H Pu	Date/Time 01/24/08 1200	RECEIVED BY: Relinquished Ben Watkins	Date/Time ~~01/24/08~~ 1/24/08 ~~1200~~ 1505 WHP		
COMPANY NAME: SAIC		COMPANY NAME: Gel			

Received by: D Montgomery 15:05

An Employee-Owned Company
Science Applications International Corporation
151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

201682, 201683

CHAIN OF CUSTODY RECORD

COC NO.: PH1013

PROJECT NAME: Hunter - Pumphouse 1

PROJECT NUMBER: 01-1055-04-~~2945~~-200
3056

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

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	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
TH0620	1/24/08	0730	QA	X			2	N/A	Trip Blank
AK1019	1/24/08	0821	Soil	X	X	X	2	3040 ppm	
AK1018	1/24/08	0839	GW	X	X	X	5	N/A	
AK1119	1/24/08	0915	Soil	X	X	X	2	3340 ppm	
AK1118	1/24/08	0936	GW	X	X	X	5	N/A	
AK1219	1/24/08	1012	Soil	X	X	X	2	384 ppm	
AK1218	1/24/08	1030	GW	X	X	X	5	N/A	
AK1214	1/24/08	1030	GW	X	X	X	5	N/A	Duplicate
AK1319	1/24/08	1108	~~GW~~ Soil	X	X	X	2	11.8 ppm	
AK1318	1/24/08	1134	GW	X	X	X	5	N/A	
AK1619	1/24/08	1301	Soil	X	X	X	2	118 ppm	
AK1618	1/24/08	1328	GW	X	X	X	5	N/A	
AK1719	1/24/08	1407	Soil	X	X	X	2	741 ppm	

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	01/24/08 1900	Ben Watkins	01/25/08 1120
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RECEIVED BY: Wayne H. Pen	01/24/08 1908	RELINQUISHED BY: Ben Watkins	01/25/08 1401
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RELINQUISHED BY: Wayne H. Pen	01/25/08 1120	RECEIVED BY: M. Smith	1/25/08 1405
COMPANY NAME: SAIC		COMPANY NAME: Gel	

TOTAL NUMBER OF CONTAINERS: See Pg. 2

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

For soil samples: PAH and Lead are together in same 8-oz. Jar

Page 1 of 1

Science Applications International Corporation — An Employee-Owned Company

151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

CHAIN OF CUSTODY RECORD

COC NO.: PH1013

PROJECT NAME: Hunter - Pumphouse 1

PROJECT NUMBER: 01-1055-04-~~2945~~-200 3056

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

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	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
AK1718	1/24/08	1428	GW	X	X	X	5	N/A	
AK1714	1/24/08	1428	GW	X	X	X	5	N/A	Duplicate
AK1819	1/24/08	1508	Soil	X	X	X	2	3220 ppm	
AK1818	1/24/08	1525	GW	X	X	X	5	N/A	
~~AK209~~	01/23/08	1441	Soil		X	X	1		
AK1519	01/23/08	1243	Soil		X	X	1		
AK4019	01/23/08	1603	Soil		X	X	1		

WHP 01/25/08

WHP 01/25/08

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	01/24/08 1900	Ben Wattier	01/25/08 1120
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RECEIVED BY: Wayne H. Pan	01/24/08 1900	RELINQUISHED BY: Ben Wattier	01/25/08 1409
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RELINQUISHED BY: Wayne H. Pan	01/25/08 1120	RECEIVED BY: M. Smith	1-25-08 1407
COMPANY NAME: SAIC		COMPANY NAME: GEL	

TOTAL NUMBER OF CONTAINERS: 61

Cooler ID: 64

Cooler Temperature:

FEDEX NUMBER:

For soil samples: PAH and Lead are together in same 8-oz. jar.

201105 201106

Page 1 of 2

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Science Applications International Corporation
151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

CHAIN OF CUSTODY RECORD

COC NO.: PH1014

PROJECT NAME: Hunter - Pumphouse 1 TJC

PROJECT NUMBER: 01-1055-04-~~2045~~-200 3056

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

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	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
~~TH0621~~	~~1/25/08~~		~~QA~~	~~X~~			~~2~~	~~N/A~~	~~Trip Blank~~ TJC 1/25/08
AK1919	1/25/08	0811	Soil	X	X	X	2	3.7 ppm	
AK1918	1/25/08	0838	GW	X	X	X	5	N/A	
AK2219	1/25/08	0913	Soil	X	X	X	2	1830 ppm	
AK2213	1/25/08	0913	Soil	X	X	X	2	1830 ppm	Duplicate
AK2218	1/25/08	0935	GW	X	X	X	5	N/A	
AK2319	1/25/08	1040	Soil	X	X	X	2	2820 ppm	
AK2318	1/25/08	1101	GW	X	X	X	5	N/A	
AK2419	1/25/08	1138	Soil	X	X	X	2	2930 ppm	
AK2418	1/25/08	1204	GW	X	X	X	5	N/A	
AK2519	1/25/08	1306	Soil	X	X	X	2	13.3 ppm	
AK2518	1/25/08	1339	GW	X	X	X	5	N/A	
AK2619	1/25/08	1425	Soil	X	X	X	2	114 ppm	

TJC

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	01/25/08 1900	P. Merit	01/26/08 1120
COMPANY NAME: SAIC		COMPANY NAME: G.E.L.	
RECEIVED BY: Wayne H. Pan	01/25/08 1900	RELINQUISHED BY: P. Merit	1/26/08 14:15
COMPANY NAME: SAIC		COMPANY NAME: G.E.L.	
RELINQUISHED BY: Wayne H. Pan	01/26/08 1120	RECEIVED BY: Mellie Smith	1-26-08 14:1[illegible]
COMPANY NAME: SAIC		COMPANY NAME: GEL	

TOTAL NUMBER OF CONTAINERS: See Pg. 2

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

For soil samples: PAH and Lead are together in the same 8-oz jar.

Science Applications International Corporation
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CHAIN OF CUSTODY RECORD

COC NO.: PH1014

PROJECT NAME: Hunter - Pumphouse 1 TSC

PROJECT NUMBER: 01-1055-04-~~2945~~-200 3056

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

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	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
AK2618	1/25/08	1445	GW	X	X	X	5	N/A	

TSC

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	01/25/08 1900	D. Nent	01/26/08 1120
COMPANY NAME: SAIC		COMPANY NAME: G.E.L.	
RECEIVED BY: Wayne H. Pa	Date/Time 01/25/08 1900	RELINQUISHED BY:	Date/Time
COMPANY NAME: SAIC		COMPANY NAME:	
RELINQUISHED BY: Wayne H. Pa	Date/Time 01/26/08 1120	RECEIVED BY: Mellie Smith	Date/Time 1-26-08 1415
COMPANY NAME: SAIC		COMPANY NAME: GEL	

TOTAL NUMBER OF CONTAINERS: ~~46~~ 44

Cooler ID: TSC 1/25/08

Cooler Temperature:

FEDEX NUMBER:

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Science Applications International Corporation
151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

CHAIN OF CUSTODY RECORD

20170901

COC NO.: PH1015

PROJECT NAME: Hunter - Pumphouse 1
FC

PROJECT NUMBER: 01-1055-04-~~2945~~-200
3056

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

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	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS.
1	AK2719	1/26/08	0828	Soil	X	X	X	2	2670 ppm	
2	AK2718	1/26/08	0848	GW	X	X	X	5	N/A	
1	AK2714	1/26/08	0848	GW	X	X	X	5	N/A	Duplicate
1	AK2819	1/26/08	0940	Soil	X	X	X	2	3380 ppm	
2	AK2818	1/26/08	0956	GW	X	X	X	5	N/A	
1	AK2919	1/26/08	1030	Soil	X	X	X	2	3140 ppm	
2	AK2918	1/26/08	1053	GW	X	X	X	5	N/A	
1	AK3019	1/26/08	1140	Soil	X	X	X	2	3830 ppm	
2	AK3018	1/26/08	1206	GW	X	X	X	5	N/A	Lead: 250-ml poly for MS/MSD
1	AK3119	1/26/08	1310	Soil	X	X	X	2	0.0 ppm	
2	AK3118	1/26/08	1350	GW	X	X	X	5	N/A	
1	AK3719	1/26/08	1357	Soil	X	X	X	2	0.0 ppm	
1	AK3713	1/26/08	1357	Soil	X	X	X	2	0.0 ppm	Duplicate

FC

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	01/26/08 1900	P. Nent	01/27/08 1200
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RECEIVED BY: Wayne H. Pan	01/26/08 1900	RELINQUISHED BY: P. Nent	1/27/08 14:30
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RELINQUISHED BY: Wayne H. Pan	01/27/08 1200	RECEIVED BY: Mellie Smith	1-27-08 1432
COMPANY NAME: SAIC		COMPANY NAME: GEL	

TOTAL NUMBER OF CONTAINERS: See pg. 2

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

For soil samples: PAH and Lead are together in same 8-oz. jar.

Page 2 of 2

Science Applications International Corporation — An Employee-Owned Company

151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

CHAIN OF CUSTODY RECORD

COC NO.: PH1015

PROJECT NAME: Hunter - Pumphouse 1

PROJECT NUMBER: 01-1055-04-~~2045~~-200 3056

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

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	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
AK3718	1/26/08	1425	GW	X	X	X	5	N/A	
AK3619	1/26/08	1458	Soil	X	X	X	2	3740 ppm	
AK3618	1/26/08	1533	GW	X	X	X	5	N/A	

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	01/26/08 1900	P. Nent	01/27/08 1200
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RECEIVED BY: [illegible]	01/26/08 1900	RELINQUISHED BY: P. Nent	1/27/08 14:30
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RELINQUISHED BY: [illegible]	01/27/08 1200	RECEIVED BY: Mellie Smith	1-27-08 1430
COMPANY NAME: SAIC		COMPANY NAME: GEL	

TOTAL NUMBER OF CONTAINERS: 56

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

For Soil samples: PAH and Lead are together in same 8-oz. jar.

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Science Applications International Corporation
151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

201744; ~~201746~~ 201745

CHAIN OF CUSTODY RECORD

COC NO.: PH1016

PROJECT NAME: Hunter - Pumphouse 1 TAC

PROJECT NUMBER: 01-1055-04-~~2045~~-200 3056

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

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	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
AK3219	1/27/08	0824	Soil	X	X	X	2	3390 ppm	
AK3218	1/27/08	0845	GW	X	X	X	5	N/A	
AK3214	1/27/08	0845	GW	X	X	X	5	N/A	Duplicate
AK3319	1/27/08	0917	Soil	X	X	X	2	2550 ppm	
AK3318	1/27/08	0956	GW	X	X	X	5	N/A	
AK3419	1/27/08	1032	Soil	X	X	X	2	3300 ppm	
AK3418	1/27/08	1056	GW	X	X	X	5	N/A	
AK3519	1/27/08	1256	Soil	X	X	X	2	2320 ppm	
AK3518	1/27/08	1320	GW	X	X	X	5	N/A	
AK4119	1/27/08	1346	Soil	X	X	X	2	2030 ppm	
AK4118	1/27/08	1411	GW	X	X	X	5	N/A	
AK4219	1/27/08	1437	Soil	X	X	X	2	2120 ppm	
AK4218	1/27/08	1502	GW	X	X	X	5	N/A	

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey, COMPANY NAME: SAIC	01/27/08 1900	Block, COMPANY NAME: GEL	01/28/08 1155
Wayne H. Pa, COMPANY NAME: SAIC	01/27/08 1900	[illegible], COMPANY NAME: GEL	01/28/08 1453
Wayne H. Pa, COMPANY NAME: SAIC	01/28/08 1155	[illegible], COMPANY NAME: GEL	1/28/08 1450

TOTAL NUMBER OF CONTAINERS: 47

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

For soil samples: PAH and Lead are together in same 8-oz. jar.

An Employee-Owned Company
Science Applications International Corporation
151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

CHAIN OF CUSTODY RECORD

2018101
2018111

COC NO.: PH1017

PROJECT NAME: Hunter - Pumphouse 1
TSC

PROJECT NUMBER: 01-1055-04-~~2945~~-200
3056

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

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	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
AK4319	1/28/08	0805	Soil	X	X	X	2	0.0 ppm	
AK4318	1/28/08	0835	GW	X	X	X	5	N/A	
AK4419	1/28/08	0912	Soil	X	X	X	2	0.0 ppm	
AK4418	1/28/08	0942	GW	X	X	X	5	N/A	
AK4519	1/28/08	1040	Soil	X	X	X	2	0.0 ppm	
AK4518	1/28/08	1101	GW	X	X	X	5	N/A	

TSC

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	01/28/08 1900	Ben Walton	01/29/08 1145
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RECEIVED BY: Wayne H. Pan	Date/Time 01/28/08 1900	RELINQUISHED BY: Ben Walton	Date/Time 01/29/08 1505
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RELINQUISHED BY: Wayne H. Pan	Date/Time 01/29/08 1145	RECEIVED BY: P. Nent	Date/Time 1/29/08 15:05
COMPANY NAME: SAIC		COMPANY NAME: GEL	

TOTAL NUMBER OF CONTAINERS: 21

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

For soil samples: PAH and Lead are together in same 8 oz jar.

ARCADIS

Appendix C

Annual Monitoring Lab Data – December 2008

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

ARCADIS U.S., Inc.
30 Patewood Drive
Suite 155
Greenville, SC 29615
Attention: Chuck Bertz

Project Name: **Fort Stewart - HAAF**

Project Number: **GP08HAFS.H13A.NA1R1**

Lot Number: **JL19058**

Date Completed: **12/30/2008**

Michael Casalena
Project Manager

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

• • • • • • • • •

Case Narrative
ARCADIS U.S., Inc.
Lot Number: JL19058

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary
ARCADIS U.S., Inc.
Lot Number: JL19058

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
002	D-MW34 (121608)	Aqueous	12/16/2008 1615	12/19/2008
003	D-MW36 (121608)	Aqueous	12/16/2008 1825	12/19/2008
004	P1-MW11 (121608)	Aqueous	12/16/2008 1615	12/19/2008
005	P1-MW12 (121608)	Aqueous	12/16/2008 1840	12/19/2008
006	P1-MW13 (121608)	Aqueous	12/16/2008 1640	12/19/2008
007	D-MW2 (121708)	Aqueous	12/17/2008 1703	12/19/2008
008	D-MW8 (121708)	Aqueous	12/17/2008 1420	12/19/2008
009	D-MW11 (121708)	Aqueous	12/17/2008 1617	12/19/2008
010	D-MW12 (121708)	Aqueous	12/17/2008 1416	12/19/2008
011	D-MW13 (121708)	Aqueous	12/17/2008 1025	12/19/2008
012	D-MW17 (121708)	Aqueous	12/17/2008 1247	12/19/2008
013	D-MW18 (121708)	Aqueous	12/17/2008 1750	12/19/2008
014	D-MW19 (121708)	Aqueous	12/17/2008 1153	12/19/2008
015	D-MW22 (121708)	Aqueous	12/17/2008 1057	12/19/2008
016	D-MW33 (11708)	Aqueous	12/17/2008 1707	12/19/2008
017	D-MW35 (121708)	Aqueous	12/17/2008 1530	12/19/2008
018	D-MW37 (121708)	Aqueous	12/17/2008 1525	12/19/2008
019	D-MW38 (121708)	Aqueous	12/17/2008 1640	12/19/2008
020	D-MW39 (121708)	Aqueous	12/17/2008 1418	12/19/2008
021	D-MW40 (121708)	Aqueous	12/17/2008 1518	12/19/2008

(20 samples)

Executive Summary
ARCADIS U.S., Inc.
Lot Number: JL19058

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	D-MW34 (121608)	Aqueous	Benzene	8260B	490		ug/L	6
002	D-MW34 (121608)	Aqueous	Ethylbenzene	8260B	510		ug/L	6
002	D-MW34 (121608)	Aqueous	Toluene	8260B	4900		ug/L	6
002	D-MW34 (121608)	Aqueous	Xylenes (total)	8260B	2700		ug/L	6
002	D-MW34 (121608)	Aqueous	Lead	6010B	0.097		mg/L	7
003	D-MW36 (121608)	Aqueous	Benzene	8260B	57		ug/L	8
003	D-MW36 (121608)	Aqueous	Ethylbenzene	8260B	200		ug/L	8
003	D-MW36 (121608)	Aqueous	Toluene	8260B	1.7		ug/L	8
003	D-MW36 (121608)	Aqueous	Xylenes (total)	8260B	350		ug/L	8
004	P1-MW11 (121608)	Aqueous	Benzene	8260B	29		ug/L	10
004	P1-MW11 (121608)	Aqueous	Ethylbenzene	8260B	680		ug/L	10
004	P1-MW11 (121608)	Aqueous	Toluene	8260B	91		ug/L	10
004	P1-MW11 (121608)	Aqueous	Xylenes (total)	8260B	1900		ug/L	10
004	P1-MW11 (121608)	Aqueous	Lead	6010B	0.011		mg/L	11
005	P1-MW12 (121608)	Aqueous	Ethylbenzene	8260B	17		ug/L	12
005	P1-MW12 (121608)	Aqueous	Xylenes (total)	8260B	64		ug/L	12
006	P1-MW13 (121608)	Aqueous	Benzene	8260B	4.8		ug/L	14
006	P1-MW13 (121608)	Aqueous	Ethylbenzene	8260B	160		ug/L	14
006	P1-MW13 (121608)	Aqueous	Toluene	8260B	130		ug/L	14
006	P1-MW13 (121608)	Aqueous	Xylenes (total)	8260B	480		ug/L	14
007	D-MW2 (121708)	Aqueous	Benzene	8260B	260		ug/L	16
007	D-MW2 (121708)	Aqueous	Ethylbenzene	8260B	230		ug/L	16
007	D-MW2 (121708)	Aqueous	Toluene	8260B	2200		ug/L	16
007	D-MW2 (121708)	Aqueous	Xylenes (total)	8260B	1200		ug/L	16
008	D-MW8 (121708)	Aqueous	Benzene	8260B	120		ug/L	18
008	D-MW8 (121708)	Aqueous	Ethylbenzene	8260B	260		ug/L	18
008	D-MW8 (121708)	Aqueous	Toluene	8260B	20		ug/L	18
008	D-MW8 (121708)	Aqueous	Xylenes (total)	8260B	1400		ug/L	18
008	D-MW8 (121708)	Aqueous	Lead	6010B	0.010		mg/L	19
009	D-MW11 (121708)	Aqueous	Benzene	8260B	74		ug/L	20
009	D-MW11 (121708)	Aqueous	Ethylbenzene	8260B	270		ug/L	20
009	D-MW11 (121708)	Aqueous	Toluene	8260B	280		ug/L	20
009	D-MW11 (121708)	Aqueous	Xylenes (total)	8260B	1600		ug/L	20
010	D-MW12 (121708)	Aqueous	Benzene	8260B	15		ug/L	22
010	D-MW12 (121708)	Aqueous	Ethylbenzene	8260B	270		ug/L	22
010	D-MW12 (121708)	Aqueous	Toluene	8260B	140		ug/L	22
010	D-MW12 (121708)	Aqueous	Xylenes (total)	8260B	1700		ug/L	22
011	D-MW13 (121708)	Aqueous	Ethylbenzene	8260B	220		ug/L	24
011	D-MW13 (121708)	Aqueous	Xylenes (total)	8260B	800		ug/L	24
012	D-MW17 (121708)	Aqueous	Benzene	8260B	40		ug/L	26
012	D-MW17 (121708)	Aqueous	Ethylbenzene	8260B	210		ug/L	26
012	D-MW17 (121708)	Aqueous	Toluene	8260B	1600		ug/L	26
012	D-MW17 (121708)	Aqueous	Xylenes (total)	8260B	1500		ug/L	26
014	D-MW19 (121708)	Aqueous	Benzene	8260B	120		ug/L	30
014	D-MW19 (121708)	Aqueous	Ethylbenzene	8260B	690		ug/L	30

Executive Summary (Continued)

Lot Number: JL19058

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
014	D-MW19 (121708)	Aqueous	Toluene	8260B	2900		ug/L	30
014	D-MW19 (121708)	Aqueous	Xylenes (total)	8260B	2400		ug/L	30
016	D-MW33 (11708)	Aqueous	Benzene	8260B	250		ug/L	34
016	D-MW33 (11708)	Aqueous	Ethylbenzene	8260B	530		ug/L	34
016	D-MW33 (11708)	Aqueous	Toluene	8260B	1400		ug/L	34
016	D-MW33 (11708)	Aqueous	Xylenes (total)	8260B	2200		ug/L	34
016	D-MW33 (11708)	Aqueous	Lead	6010B	0.014		mg/L	35
017	D-MW35 (121708)	Aqueous	Benzene	8260B	140		ug/L	36
017	D-MW35 (121708)	Aqueous	Ethylbenzene	8260B	110		ug/L	36
017	D-MW35 (121708)	Aqueous	Toluene	8260B	1100		ug/L	36
017	D-MW35 (121708)	Aqueous	Xylenes (total)	8260B	840		ug/L	36
017	D-MW35 (121708)	Aqueous	Lead	6010B	0.11		mg/L	37
018	D-MW37 (121708)	Aqueous	Benzene	8260B	64		ug/L	38
018	D-MW37 (121708)	Aqueous	Ethylbenzene	8260B	160		ug/L	38
018	D-MW37 (121708)	Aqueous	Toluene	8260B	100		ug/L	38
018	D-MW37 (121708)	Aqueous	Xylenes (total)	8260B	720		ug/L	38
019	D-MW38 (121708)	Aqueous	Benzene	8260B	3.1		ug/L	40
019	D-MW38 (121708)	Aqueous	Ethylbenzene	8260B	43		ug/L	40
019	D-MW38 (121708)	Aqueous	Toluene	8260B	4.3		ug/L	40
019	D-MW38 (121708)	Aqueous	Xylenes (total)	8260B	160		ug/L	40
019	D-MW38 (121708)	Aqueous	Lead	6010B	0.012		mg/L	41
020	D-MW39 (121708)	Aqueous	Benzene	8260B	2.7		ug/L	42
020	D-MW39 (121708)	Aqueous	Ethylbenzene	8260B	40		ug/L	42
020	D-MW39 (121708)	Aqueous	Toluene	8260B	1.9		ug/L	42
020	D-MW39 (121708)	Aqueous	Xylenes (total)	8260B	180		ug/L	42
021	D-MW40 (121708)	Aqueous	Benzene	8260B	16		ug/L	44
021	D-MW40 (121708)	Aqueous	Ethylbenzene	8260B	94		ug/L	44
021	D-MW40 (121708)	Aqueous	Toluene	8260B	11		ug/L	44
021	D-MW40 (121708)	Aqueous	Xylenes (total)	8260B	420		ug/L	44

(74 detections)

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.
Description: D-MW34 (121608)
Date Sampled: 12/16/2008 1615
Date Received: 12/19/2008

Laboratory ID: JL19058-002
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	100	12/29/2008 1512	DLB		92557

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	490		50	ug/L	1
Ethylbenzene	100-41-4	8260B	510		50	ug/L	1
Toluene	108-88-3	8260B	4900		50	ug/L	1
Xylenes (total)	1330-20-7	8260B	2700		50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	52-138
Bromofluorobenzene		103	70-147
Toluene-d8		90	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-AES

Client: ARCADIS U.S., Inc.
Description: D-MW34 (121608)
Date Sampled: 12/16/2008 1615
Date Received: 12/19/2008

Laboratory ID: JL19058-002
Matrix: Aqueous

)n	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	12/24/2008 1743	KJC	12/22/2008 1100	92142

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	0.097		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.
Description: D-MW36 (121608)
Date Sampled: 12/16/2008 1825
Date Received: 12/19/2008

Laboratory ID: JL19058-003
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/27/2008 2117	DLB		92454

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	57		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	200		0.50	ug/L	1
Toluene	108-88-3	8260B	1.7		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	350		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	52-138
Bromofluorobenzene		103	70-147
Toluene-d8		92	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-AES

Client: ARCADIS U.S., Inc.
Description: D-MW36 (121608)
Date Sampled: 12/16/2008 1825
Date Received: 12/19/2008

Laboratory ID: JL19058-003
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	12/24/2008 1746	KJC	12/22/2008 1100	92142

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	ND		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.
Description: P1-MW11 (121608)
Date Sampled: 12/16/2008 1615
Date Received: 12/19/2008

Laboratory ID: JL19058-004
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	12/29/2008 1535	DLB		92557

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	29		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	680		5.0	ug/L	1
Toluene	108-88-3	8260B	91		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	1900		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	52-138
Bromofluorobenzene		103	70-147
Toluene-d8		92	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-AES

Client: ARCADIS U.S., Inc.
Description: P1-MW11 (121608)
Date Sampled: 12/16/2008 1615
Date Received: 12/19/2008

Laboratory ID: JL19058-004
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	12/24/2008 1750	KJC	12/22/2008 1100	92142

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	0.011		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.
Laboratory ID: JL19058-005
Description: P1-MW12 (121608)
Matrix: Aqueous
Date Sampled: 12/16/2008 1840
Date Received: 12/19/2008

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/27/2008 2140	DLB		92454

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	17		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	64		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	52-138
Bromofluorobenzene		88	70-147
Toluene-d8		90	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

ICP-AES

Client: ARCADIS U.S., Inc.
Description: P1-MW12 (121608)
Date Sampled: 12/16/2008 1840
Date Received: 12/19/2008

Laboratory ID: JL19058-005
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	12/24/2008 1802	KJC	12/22/2008 1100	92142

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	ND		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.
Description: P1-MW13 (121608)
Date Sampled: 12/16/2008 1640
Date Received: 12/19/2008

Laboratory ID: JL19058-006
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	2	12/29/2008 1558	DLB		92557

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	4.8		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	160		1.0	ug/L	1
Toluene	108-88-3	8260B	130		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	480		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	52-138
Bromofluorobenzene		101	70-147
Toluene-d8		92	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-AES

Client: ARCADIS U.S., Inc.
Description: P1-MW13 (121608)
Date Sampled: 12/16/2008 1640
Date Received: 12/19/2008

Laboratory ID: JL19058-006
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	12/24/2008 1806	KJC	12/22/2008 1100	92142

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	ND		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.
Description: D-MW2 (121708)
Date Sampled: 12/17/2008 1703
Date Received: 12/19/2008

Laboratory ID: JL19058-007
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	12/29/2008 1621	DLB		92557

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	260		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	230		5.0	ug/L	1
Toluene	108-88-3	8260B	2200		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	1200		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	52-138
Bromofluorobenzene		102	70-147
Toluene-d8		90	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-AES

Client: ARCADIS U.S., Inc.
Description: D-MW2 (121708)
Date Sampled: 12/17/2008 1703
Date Received: 12/19/2008

Laboratory ID: JL19058-007
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	12/24/2008 1810	KJC	12/22/2008 1100	92142

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	ND		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.
Description: D-MW8 (121708)
Date Sampled: 12/17/2008 1420
Date Received: 12/19/2008

Laboratory ID: JL19058-008
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	12/29/2008 1644	DLB		92557

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	120		2.5	ug/L	1
Ethylbenzene	100-41-4	8260B	260		2.5	ug/L	1
Toluene	108-88-3	8260B	20		2.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	1400		2.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	52-138
Bromofluorobenzene		102	70-147
Toluene-d8		92	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-AES

Client: ARCADIS U.S., Inc.
Description: D-MW8 (121708)
Date Sampled: 12/17/2008 1420
Date Received: 12/19/2008

Laboratory ID: JL19058-008
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	12/24/2008 1814	KJC	12/22/2008 1100	92142

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	0.010		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.
Description: D-MW11 (121708)
Date Sampled: 12/17/2008 1617
Date Received: 12/19/2008

Laboratory ID: JL19058-009
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	12/29/2008 1730	DLB		92557

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	74		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	270		5.0	ug/L	1
Toluene	108-88-3	8260B	280		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	1600		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	52-138
Bromofluorobenzene		103	70-147
Toluene-d8		91	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-AES

Client: ARCADIS U.S., Inc.
Description: D-MW11 (121708)
Date Sampled: 12/17/2008 1617
Date Received: 12/19/2008

Laboratory ID: JL19058-009
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	12/24/2008 1817	KJC	12/22/2008 1100	92142

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	ND		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.
Description: D-MW12 (121708)
Date Sampled: 12/17/2008 1416
Date Received: 12/19/2008

Laboratory ID: JL19058-010
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	12/29/2008 1753	DLB		92557

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	15		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	270		5.0	ug/L	1
Toluene	108-88-3	8260B	140		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	1700		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	52-138
Bromofluorobenzene		101	70-147
Toluene-d8		91	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-AES

Client: ARCADIS U.S., Inc.
Description: D-MW12 (121708)
Date Sampled: 12/17/2008 1416
Date Received: 12/19/2008

Laboratory ID: JL19058-010
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	12/24/2008 1821	KJC	12/22/2008 1100	92142

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	ND		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.
Description: D-MW13 (121708)
Date Sampled: 12/17/2008 1025
Date Received: 12/19/2008

Laboratory ID: JL19058-011
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	12/29/2008 1815	DLB		92557

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		2.5	ug/L	1
Ethylbenzene	100-41-4	8260B	220		2.5	ug/L	1
Toluene	108-88-3	8260B	ND		2.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	800		2.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	52-138
Bromofluorobenzene		102	70-147
Toluene-d8		91	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-AES

Client: ARCADIS U.S., Inc.
Description: D-MW13 (121708)
Date Sampled: 12/17/2008 1025
Date Received: 12/19/2008

Laboratory ID: JL19058-011
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	12/24/2008 1825	KJC	12/22/2008 1100	92142

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	ND		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.
Description: D-MW17 (121708)
Date Sampled: 12/17/2008 1247
Date Received: 12/19/2008

Laboratory ID: JL19058-012
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	12/29/2008 1838	DLB		92557

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	40		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	210		5.0	ug/L	1
Toluene	108-88-3	8260B	1600		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	1500		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	52-138
Bromofluorobenzene		103	70-147
Toluene-d8		90	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-AES

Client: ARCADIS U.S., Inc.
Description: D-MW17 (121708)
Date Sampled: 12/17/2008 1247
Date Received: 12/19/2008

Laboratory ID: JL19058-012
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	12/29/2008 1115	MNM	12/22/2008 1100	92143

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	ND		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.
Description: D-MW18 (121708)
Date Sampled: 12/17/2008 1750
Date Received: 12/19/2008

Laboratory ID: JL19058-013
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/29/2008 1253	DLB		92557

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	52-138
Bromofluorobenzene		100	70-147
Toluene-d8		90	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-AES

Client: ARCADIS U.S., Inc.
Description: D-MW18 (121708)
Date Sampled: 12/17/2008 1750
Date Received: 12/19/2008

Laboratory ID: JL19058-013
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	12/29/2008 1119	MNM	12/22/2008 1100	92143

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	ND		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.
Description: D-MW19 (121708)
Date Sampled: 12/17/2008 1153
Date Received: 12/19/2008

Laboratory ID: JL19058-014
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	12/29/2008 1901	DLB		92557

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	120		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	690		5.0	ug/L	1
Toluene	108-88-3	8260B	2900		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	2400		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	52-138
Bromofluorobenzene		102	70-147
Toluene-d8		91	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-AES

Client: ARCADIS U.S., Inc.
Description: D-MW19 (121708)
Date Sampled: 12/17/2008 1153
Date Received: 12/19/2008

Laboratory ID: JL19058-014
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	12/29/2008 1122	MNM	12/22/2008 1100	92143

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	ND		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.
Description: D-MW22 (121708)
Date Sampled: 12/17/2008 1057
Date Received: 12/19/2008

Laboratory ID: JL19058-015
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/29/2008 1316	DLB		92557

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	52-138
Bromofluorobenzene		100	70-147
Toluene-d8		91	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-AES

Client: ARCADIS U.S., Inc.
Description: D-MW22 (121708)
Date Sampled: 12/17/2008 1057
Date Received: 12/19/2008

Laboratory ID: JL19058-015
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	12/29/2008 1126	MNM	12/22/2008 1100	92143

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	ND		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.
Description: D-MW33 (11708)
Date Sampled: 12/17/2008 1707
Date Received: 12/19/2008

Laboratory ID: JL19058-016
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	12/29/2008 1947	DLB		92557

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	250		10	ug/L	1
Ethylbenzene	100-41-4	8260B	530		10	ug/L	1
Toluene	108-88-3	8260B	1400		10	ug/L	1
Xylenes (total)	1330-20-7	8260B	2200		10	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	52-138
Bromofluorobenzene		101	70-147
Toluene-d8		91	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-AES

Client: ARCADIS U.S., Inc.
Description: D-MW33 (11708)
Date Sampled: 12/17/2008 1707
Date Received: 12/19/2008

Laboratory ID: JL19058-016
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	12/29/2008 1130	MNM	12/22/2008 1100	92143

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	0.014		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.
Description: D-MW35 (121708)
Date Sampled: 12/17/2008 1530
Date Received: 12/19/2008

Laboratory ID: JL19058-017
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	12/29/2008 2010	DLB		92557

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	140		2.5	ug/L	1
Ethylbenzene	100-41-4	8260B	110		2.5	ug/L	1
Toluene	108-88-3	8260B	1100		2.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	840		2.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	52-138
Bromofluorobenzene		102	70-147
Toluene-d8		91	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-AES

Client: ARCADIS U.S., Inc.
Description: D-MW35 (121708)
Date Sampled: 12/17/2008 1530
Date Received: 12/19/2008

Laboratory ID: JL19058-017
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	12/29/2008 1134	MNM	12/22/2008 1100	92143

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	0.11		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.
Description: D-MW37 (121708)
Date Sampled: 12/17/2008 1525
Date Received: 12/19/2008

Laboratory ID: JL19058-018
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	2	12/29/2008 2055	DLB		92557

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	64		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	160		1.0	ug/L	1
Toluene	108-88-3	8260B	100		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	720		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	52-138
Bromofluorobenzene		103	70-147
Toluene-d8		90	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-AES

Client: ARCADIS U.S., Inc.
Description: D-MW37 (121708)
Date Sampled: 12/17/2008 1525
Date Received: 12/19/2008

Laboratory ID: JL19058-018
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	12/29/2008 1138	MNM	12/22/2008 1100	92143

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	ND		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.
Description: D-MW38 (121708)
Date Sampled: 12/17/2008 1640
Date Received: 12/19/2008

Laboratory ID: JL19058-019
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/29/2008 1403	DLB		92557

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	3.1		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	43		0.50	ug/L	1
Toluene	108-88-3	8260B	4.3		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	160		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	52-138
Bromofluorobenzene		107	70-147
Toluene-d8		92	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-AES

Client: ARCADIS U.S., Inc.
Description: D-MW38 (121708)
Date Sampled: 12/17/2008 1640
Date Received: 12/19/2008

Laboratory ID: JL19058-019
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	12/29/2008 1201	MNM	12/22/2008 1100	92143

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	0.012		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.
Description: D-MW39 (121708)
Date Sampled: 12/17/2008 1418
Date Received: 12/19/2008

Laboratory ID: JL19058-020
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/29/2008 1426	DLB		92557

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	2.7		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	40		0.50	ug/L	1
Toluene	108-88-3	8260B	1.9		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	180		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	52-138
Bromofluorobenzene		106	70-147
Toluene-d8		92	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-AES

Client: ARCADIS U.S., Inc.
Description: D-MW39 (121708)
Date Sampled: 12/17/2008 1418
Date Received: 12/19/2008

Laboratory ID: JL19058-020
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	12/29/2008 1209	MNM	12/22/2008 1100	92143

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	ND		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.
Description: D-MW40 (121708)
Date Sampled: 12/17/2008 1518
Date Received: 12/19/2008

Laboratory ID: JL19058-021
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	2	12/29/2008 2118	DLB		92557

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	16		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	94		1.0	ug/L	1
Toluene	108-88-3	8260B	11		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	420		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	52-138
Bromofluorobenzene		103	70-147
Toluene-d8		91	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-AES

Client: ARCADIS U.S., Inc.
Description: D-MW40 (121708)
Date Sampled: 12/17/2008 1518
Date Received: 12/19/2008

Laboratory ID: JL19058-021
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	12/29/2008 1213	MNM	12/22/2008 1100	92143

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	ND		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: JQ92454-001
Batch: 92454
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Benzene	ND		1	0.50	ug/L	12/27/2008 1448
Ethylbenzene	ND		1	0.50	ug/L	12/27/2008 1448
Toluene	ND		1	0.50	ug/L	12/27/2008 1448
Xylenes (total)	ND		1	0.50	ug/L	12/27/2008 1448

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		86	70-147
1,2-Dichloroethane-d4		95	52-138
Toluene-d8		91	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: JQ92454-002
Batch: 92454
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	44		1	89	70-130	12/27/2008 1123
Ethylbenzene	50	48		1	96	70-130	12/27/2008 1123
Toluene	50	45		1	91	70-130	12/27/2008 1123
Xylenes (total)	100	99		1	99	70-130	12/27/2008 1123

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		89	70-147
1,2-Dichloroethane-d4		91	52-138
Toluene-d8		89	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: JQ92454-003
Batch: 92454
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Benzene	50	43		1	87	2.1	70-130	20	12/27/2008 1145
Ethylbenzene	50	50		1	99	3.2	70-130	20	12/27/2008 1145
Toluene	50	46		1	92	1.6	70-130	20	12/27/2008 1145
Xylenes (total)	100	99		1	99	0.35	70-130	20	12/27/2008 1145

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		88	70-147
1,2-Dichloroethane-d4		81	52-138
Toluene-d8		90	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: JQ92557-001
Batch: 92557
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Benzene	ND		1	0.50	ug/L	12/29/2008 1216
Ethylbenzene	ND		1	0.50	ug/L	12/29/2008 1216
Toluene	ND		1	0.50	ug/L	12/29/2008 1216
Xylenes (total)	ND		1	0.50	ug/L	12/29/2008 1216

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		99	70-147
1,2-Dichloroethane-d4		84	52-138
Toluene-d8		92	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: JQ92557-002
Batch: 92557
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	54		1	109	70-130	12/29/2008 1103
Ethylbenzene	50	58		1	115	70-130	12/29/2008 1103
Toluene	50	54		1	108	70-130	12/29/2008 1103
Xylenes (total)	100	110		1	111	70-130	12/29/2008 1103

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		101	70-147
1,2-Dichloroethane-d4		83	52-138
Toluene-d8		91	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: JQ92557-003
Batch: 92557
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Benzene	50	56		1	112	2.8	70-130	20	12/29/2008 1127
Ethylbenzene	50	59		1	119	3.2	70-130	20	12/29/2008 1127
Toluene	50	56		1	111	3.3	70-130	20	12/29/2008 1127
Xylenes (total)	100	110		1	114	2.8	70-130	20	12/29/2008 1127

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		104	70-147
1,2-Dichloroethane-d4		85	52-138
Toluene-d8		92	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-AES - MB

Sample ID: JQ92142-001
Batch: 92142
Analytical Method: 6010B

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 12/22/2008 1100

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Lead	ND		1	0.010	mg/L	12/24/2008 1629

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-AES - LCS

Sample ID: JQ92142-002
Batch: 92142
Analytical Method: 6010B

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 12/22/2008 1100

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Lead	0.40	0.39		1	98	80-120	12/24/2008 1633

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-AES - LCSD

Sample ID: JQ92142-003
Batch: 92142
Analytical Method: 6010B

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 12/22/2008 1100

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Lead	0.40	0.39		1	98	0.34	80-120	20	12/24/2008 1637

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-AES - MB

Sample ID: JQ92143-001
Batch: 92143
Analytical Method: 6010B

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 12/22/2008 1100

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Lead	ND		1	0.010	mg/L	12/29/2008 1103

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-AES - LCS

Sample ID: JQ92143-002
Batch: 92143
Analytical Method: 6010B

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 12/22/2008 1100

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Lead	0.40	0.39		1	98	80-120	12/29/2008 1107

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-AES - LCSD

Sample ID: JQ92143-003
Batch: 92143
Analytical Method: 6010B

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 12/22/2008 1100

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Lead	0.40	0.40		1	99	0.21	80-120	20	12/29/2008 1111

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-AES - MS

Sample ID: JL19058-018MS
Batch: 92143
Analytical Method: 6010B

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 12/22/2008 1100

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Lead	ND	0.40	0.39		1	98	75-125	12/29/2008 1149

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-AES - MSD

Sample ID: JL19058-018MD
Batch: 92143
Analytical Method: 6010B

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 12/22/2008 1100

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Lead	ND	0.40	0.40		1	99	0.94	75-125	20	12/29/2008 1153

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-AES - MS

Sample ID: JL19058-019MS
Batch: 92143
Analytical Method: 6010B

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 12/22/2008 1100

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Lead	0.012	0.40	0.40		1	98	75-125	12/29/2008 1205

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number 86481

ARCADIS

Client: 801 Corporate Center Drive
Address: Suite 300
City: Raleigh | State: NC | Zip Code: 27607
Project Name: Fort Stewart / HAAF
Project No.: GP08HAFS.H13A.NA1R1
P.O. No.:

Report to Contact: Chuck Bertz
Sampler's Signature: x Erica Maddox
Printed Name: Erica Maddox

Telephone No. / Fax No. / E-mail: 919-854-9812
Quote No.:
Waybill No.:
Page 1 of 3

Analysis (Attach list if more space is needed.)

Lot No.: JL19058

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Grab (G) Composite (C)	Matrix: Aqueous	Solid	Tissue/Aqueous	Other	Other	No. of Containers by Preservative Type: HNO3	HCl	NaOH	Other	BTEX (SW8260B) Lead (SW6020)	Remarks / Cooler I.D.
D-HW31 (121608)	12/16/08	1745	G	X					1	3				JL19016
D-HW34 (121608)	12/16/08	1615	G	X					1	3				
D-HW36 (121608)	12/16/08	1825	G	X					1	3				
P1-HW11 (121608)	12/16/08	1615	G	X					1	3				
P1-HW12 (121608)	12/16/08	1840	G	X					1	3				
P1-HW13 (121608)	12/16/08	1640	G	X					1	3				
D-HW2 (121708)	12/17/08	1703	G	X					1	3				
D-HW8 (121708)	12/17/08	1420	G	X					1	3				
D-HW11 (121708)	12/17/08	1617	G	X					1	3				
D-HW12 (121708)	12/17/08	1416	G	X					1	3				

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Sample Disposal: ☐ Return to Client ☑ Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Turn Around Time Required (Prior lab approval required for expedited TAT): ☑ Standard ☐ Rush (Specify)

QC Requirements (Specify):

Relinquished by	Date	Time	Received by	Date	Time
1. Erica Maddox	12/18/08	1200	1.		
2.			2.		
3. FedEx	12/19/08	0840	3. Laboratory received by: G Rawson	12/19/08	0940

Comments:

LAB USE ONLY: Received on ice (Circle): Yes No Ice Pack TB Receipt Temp. 3.2 °C

DISTRIBUTION: WHITE & YELLOW Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-012 Effective Date: 02-04-02

SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number 86482

ARCADIS

Client: 801 Corporate Center Drive	Report to Contact: Chuck Bertz	Telephone No. / Fax No. / E-mail: 919-854-9812	Quote No.
Address: Suite 300	Sampler's Signature: x Erica Maddox	Waybill No.	Page 2 of 3
City: Raleigh / State: NC / Zip Code: 27607	Printed Name: Erica Maddox		
Project Name: Fort Stewart / HAAF			
Project No.: GP08HAFS.H13A.NARI	P.O. No.		

Analysis (Attach list if more space is needed.): BTEX (SW8260B), Lead (SW6010B)

Lot No.: JL19058

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Grab/Composite	Matrix: Aqueous	Soils	Non-Aqueous	No. of Containers by Preservative Type: Unpres.	MeOH	HNO3	HCl	Water	8015 (R)	BTEX (SW8260B)	Lead (SW6010B)	Remarks / Cooler I.D.
D-HW13 (121708)	12/17/08	1025	G						1	3					
D-HW17 (121708)		1247	G						1	3					
D-HW18 (121708)		1750	G						1	3					
D-HW19 (121708)		1153	G						1	3					
D-HW22 (121708)		1057	G						1	3					
D-HW33 (121708)		1707	G						1	3					
D-HW35 (121708)		1530	G						1	3					
D-HW37 (121708)		1525	G						1	3					
D-HW38 (121708)		1640	G						1	3					
D-HW39 (121708)		1418	G						1	3					

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Sample Disposal: ☐ Return to Client ☑ Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Turn Around Time Required (Prior lab approval required for expedited TAT): ☑ Standard ☐ Rush (Specify)

QC Requirements (Specify):

1. Relinquished by: Erica Maddox	Date: 12/18/08	Time: 1200	1. Received by:	Date:	Time:
2. Relinquished by:	Date:	Time:	2. Received by:	Date:	Time:
3. Relinquished by: FedEx	Date: 12/19/08	Time: 0900	3. Laboratory received by:	Date: 12/19/08	Time: 0900

Comments:

LAB USE ONLY: Received on ice (Circle) Yes No Ice Pack

Receivd Temp. 3.2 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-012 Effective Date: 08-04-07

SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 6

Page 1 of 1
Replaces Date: 03/22/06
Effective Date: 05/29/07

Sample Receipt Checklist (SRC)

JL19058 JL19059

Client: ARCADIS Cooler Inspected by/date: SAM 12/19/08 Lot#: JL19016

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☑ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☑	NA ☐	1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

Cooler ID/temperature upon receipt 3.21 °C / °C / °C / °C / °C / °C / °C / °C

Method: ☑ Temperature Blank ☐ Against Bottles
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other:_____. (For coolers received via commercial courier, PMs are to be notified immediately.
Yes ☑	No ☐	NA ☐	4. Is the commercial courier's packing slip attached to this form?
Yes ☐	No ☑	NA ☐	5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐	NA ☐	6. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	7. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	8. Were tests to be performed listed on the COC or was quote # provided?
Yes ☑	No ☐	NA ☐	9. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	10. Did all container label information (ID, date, time) agree with COC?
Yes ☑	No ☐	NA ☐	11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐	NA ☐	12. Was adequate sample volume available?
Yes ☐	No ☑	NA ☐	13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	14. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	15. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	16. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) and toxicity (<0.1mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s)_____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4,HNO_3,HCl,NaOH) with the SR # (number)

Sample(s)_____ were received with bubbles >6 mm in diameter.

Sample(s)_____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/BNA/pest/PCB/herb.

Toxicity sample(s)_____ were received with TRC >0.1 mg/L and were analyzed by method 330.5.

Date 12/18/08 FedEx Tracking Number 866594007468

Sender's Name ARCADIS INC. Phone 770 431-8666

Company ARCADIS

Address 3040 PACES FERRY RD. SE STE. 400

City ATLANTA State GA Zip 30339-3769

Your Internal Billing Reference GP08HAES HI3A. NA1.R1

Corrective Action taken, if necessary:
Was client notified: Yes ☐ No ☐
SESI employee:_____
Comments:_____

SHEALY ENVIRONMENTAL SERVICES, INC.

Chain of Custody Record

106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number 86487

ARCADIS

Client: 801 Corporate Center Drive
Address: Suite 300
City: Raleigh | State: NC | Zip Code: 27607
Project Name: Fort Stewart / HAAF
Project No.: GP08HAFS.HIBA.NA101
P.O. No.:

Report to Contact: Chuck Bertz
Telephone No. / Fax No. / E-mail: 919-854-9812
Cuolis No.:
Sampler's Signature: Erica Maddox
Waybill No.:
Page 3 of 3
Printed Name: Erica Maddox

Analysis (Attach list if more space is needed.)

Lab No. JL19059
JL19058

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Composite (C)/Grab (G)	Matrix: Aqueous	Soil	Hydrogen Peroxide	No. of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	NaS2O3	BTX (SW8260)	Lead (SW6010B)	Remarks / Cooler I.D.
D-HW40 (121708)	12/17/08	1518	G	X					1	3			X	X	
D-HW41 (121708)		1002	G	X					1	3			X	X	
D-HW42 (121708)		1135	G	X					1	3			X	X	
PI-HW42 (121708)		1821	G	X					1	3			X	X	
DUP-HAAB RI-1 (121608)	12/16/08	1200	G	X					1	3			X	X	
DUP-HAAB RI-2 (121708)	12/16/08	1200	G	X					1	3			X	X	
D-MW43 (121808)	12/18/08	0915	G	X					1	3			X	X	
TB-1 (121608)	12/16/08	0700	G	X						2			X		

Erica Maddox

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Sample Disposal: ☐ Return to Client ☑ Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Turn-Around Time Required (Prior lab approval required for expedited TAT.): ☑ Standard ☐ Rush (Specify)

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished by: Erica Maddox	12/19/08	1200	1. Received by:		
2. Relinquished by:			2. Received by:		
3. Relinquished by: FEDEX	12/19/08	0940	3. Laboratory received by:	12/19/08	0940

Comments:

LAB USE ONLY
Received on ice (Circle): Yes No Ice Pack
Receipt Temp. 3.2 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-012 Effective Date: 08-04-08

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Level 1 Report V2.1

SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

ARCADIS U.S., Inc.
30 Patewood Drive
Suite 155
Greenville, SC 29615
Attention: Chuck Bertz

Project Name: Hunter Stewart - HAAF

Project Number: GP08HAFS.H13A.NA1R1

Lot Number: JL19059

Date Completed: 12/31/2008

Michael Casalena
Project Manager

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

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Case Narrative
ARCADIS U.S., Inc.
Lot Number: JL19059

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary
ARCADIS U.S., Inc.
Lot Number: JL19059

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	D-MW41 (121708)	Aqueous	12/17/2008 1002	12/19/2008
002	D-MW42 (121708)	Aqueous	12/17/2008 1135	12/19/2008
003	P1-MW42 (121708)	Aqueous	12/17/2008 1821	12/19/2008
004	DUP-HAAI3RI-1 (121608)	Aqueous	12/16/2008 1200	12/19/2008
005	DUP-HAAI3R1-2 (121708)	Aqueous	12/17/2008 1200	12/19/2008
006	D-MW43 (121808)	Aqueous	12/18/2008 0915	12/19/2008
007	TB-1 (121608)	Aqueous	12/19/2008 0940	12/19/2008
008	26-MW-19(121808)	Aqueous	12/18/2008 1650	12/23/2008
009	26-MW-32(121808)	Aqueous	12/18/2008 1150	12/23/2008
010	26-MW-42(121808)	Aqueous	12/18/2008 1250	12/23/2008
011	26-MW-49(121808)	Aqueous	12/18/2008 1435	12/23/2008
012	26-MW-50(121808)	Aqueous	12/18/2008 1530	12/23/2008
013	26-MW-57(121808)	Aqueous	12/18/2008 1545	12/23/2008
014	26-MW-31(121808)	Aqueous	12/18/2008 1753	12/23/2008
015	26-MW-23(121808)	Aqueous	12/18/2008 1648	12/23/2008
016	26-MW-22(121808)	Aqueous	12/18/2008 1606	12/23/2008
017	26-MW-52(121808)	Aqueous	12/18/2008 1438	12/23/2008
018	26-MW-51(121808)	Aqueous	12/18/2008 1337	12/23/2008
019	26-MW-43(121808)	Aqueous	12/18/2008 1243	12/23/2008
020	26-MW-33(121808)	Aqueous	12/18/2008 1147	12/23/2008

(20 samples)

Executive Summary
ARCADIS U.S., Inc.
Lot Number: JL19059

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	D-MW42 (121708)	Aqueous	Ethylbenzene	8260B	1.4		ug/L	7
002	D-MW42 (121708)	Aqueous	Xylenes (total)	8260B	1.9		ug/L	7
004	DUP-HAAI3RI-1 (121608)	Aqueous	Benzene	8260B	240		ug/L	11
004	DUP-HAAI3RI-1 (121608)	Aqueous	Ethylbenzene	8260B	220		ug/L	11
004	DUP-HAAI3RI-1 (121608)	Aqueous	Toluene	8260B	2400		ug/L	11
004	DUP-HAAI3RI-1 (121608)	Aqueous	Xylenes (total)	8260B	1300		ug/L	11
004	DUP-HAAI3RI-1 (121608)	Aqueous	Lead	6010B	0.13		mg/L	12
005	DUP-HAAI3R1-2 (121708)	Aqueous	Benzene	8260B	140		ug/L	13
005	DUP-HAAI3R1-2 (121708)	Aqueous	Ethylbenzene	8260B	98		ug/L	13
005	DUP-HAAI3R1-2 (121708)	Aqueous	Toluene	8260B	1000		ug/L	13
005	DUP-HAAI3R1-2 (121708)	Aqueous	Xylenes (total)	8260B	740		ug/L	13
005	DUP-HAAI3R1-2 (121708)	Aqueous	Lead	6010B	0.11		mg/L	14
006	D-MW43 (121808)	Aqueous	Benzene	8260B	22		ug/L	15
006	D-MW43 (121808)	Aqueous	Ethylbenzene	8260B	180		ug/L	15
006	D-MW43 (121808)	Aqueous	Toluene	8260B	57		ug/L	15
006	D-MW43 (121808)	Aqueous	Xylenes (total)	8260B	620		ug/L	15
010	26-MW-42(121808)	Aqueous	Benzene	8260B	1.5		ug/L	20
012	26-MW-50(121808)	Aqueous	Benzene	8260B	62		ug/L	22
016	26-MW-22(121808)	Aqueous	Toluene	8260B	2.0		ug/L	26
017	26-MW-52(121808)	Aqueous	Benzene	8260B	1.0		ug/L	27
018	26-MW-51(121808)	Aqueous	Benzene	8260B	0.78		ug/L	28

(21 detections)

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.
Description: D-MW41 (121708)
Date Sampled: 12/17/2008 1002
Date Received: 12/19/2008

Laboratory ID: JL19059-001
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/29/2008 1339	DLB		92557

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	52-138
Bromofluorobenzene		102	70-147
Toluene-d8		92	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-AES

Client: ARCADIS U.S., Inc.
Description: D-MW41 (121708)
Date Sampled: 12/17/2008 1002
Date Received: 12/19/2008

Laboratory ID: JL19059-001
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	12/29/2008 1217	MNM	12/22/2008 1100	92143

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	ND		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.
Description: D-MW42 (121708)
Date Sampled: 12/17/2008 1135
Date Received: 12/19/2008

Laboratory ID: JL19059-002
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/31/2008 0939	DLB		92674

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	1.4		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	1.9		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		80	52-138
Bromofluorobenzene		103	70-147
Toluene-d8		106	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria