

**SUMMARY REPORT
246 BOBWHITE DRIVE (FORMERLY 1177 BOBWHITE DRIVE)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC**

**Revision: 0
Prepared for:**

**Department of the Navy
Naval Facilities Engineering Command, Mid-Atlantic
9324 Virginia Avenue
Norfolk, Virginia 23511-3095**

and



**Naval Facilities Engineering Command Atlantic
9324 Virginia Avenue
Norfolk, Virginia 23511-3095**

JUNE 2021

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Prepared by:



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Contract Number: N62470-14-D-9016
CTO WE52
JUNE 2021

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List of Acronyms

bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CTO	Contract Task Order
COPC	constituents of potential concern
ft	feet
IDIQ	Indefinite Delivery, Indefinite Quantity
IGWA	Initial Groundwater Assessment
JV	Joint Venture
LBMH	Laurel Bay Military Housing
MCAS	Marine Corps Air Station
NAVFAC Mid-Lant	Naval Facilities Engineering Command Mid-Atlantic
NFA	No Further Action
PAH	polynuclear aromatic hydrocarbon
QAPP	Quality Assurance Program Plan
RBSL	risk-based screening level
SCDHEC	South Carolina Department of Health and Environmental Control
Site	LBMH area at MCAS Beaufort, South Carolina
UST	underground storage tank
VISL	vapor intrusion screening level

1.0 INTRODUCTION

The CDM - AECOM Multimedia Joint Venture (JV) was contracted by the Naval Facilities Engineering Command, Mid-Atlantic (NAVFAC Mid-Lant) to provide reporting services for the heating oil underground storage tanks (USTs) located in Laurel Bay Military Housing (LBMH) area at the Marine Corps Air Station (MCAS) Beaufort, South Carolina (Site). This work has been awarded under Contract Task Order (CTO) WE52 of the Indefinite Delivery, Indefinite Quantity (IDIQ) Multimedia Environmental Compliance Contract (Contract No. N62470-14-D-9016).

As of January 2014, the LBMH addresses were re-numbered to comply with the E-911 emergency response addressing system; however, in order to remain consistent with historical sampling and reporting for LBMH area, the residences will continue to be referenced with their original address numbers in sample nomenclature and reporting documents.

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 246 Bobwhite Drive (Formerly 1177 Bobwhite Drive). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

- Background information;
- Sampling activities and results; and
- A determination of the property status.

1.1 Background Information

The LBMH area is located approximately 3.5 miles west of MCAS Beaufort. The area is approximately 970 acres in size and serves as an enlisted and officer family housing area. The area is configured with single family and duplex residential structures, and includes recreation, open space, and community facilities. The community includes approximately 1,300 housing units, including legacy Capehart style homes and newer duplex style homes. The housing area

is bordered on the west by salt marshes and the Broad River, and to the north, east and south by uplands. Forested areas lie along the northern and northeastern borders.

Capehart style homes within the LBMH area were formerly heated using heating oil stored in USTs at each residence. There were 1,100 Capehart style housing units in the LBMH area. The newer duplex homes within the LBMH area never utilized heating oil tanks. Heating oil has not been used at Laurel Bay since the mid-1980s. As was the accepted practice at the time, USTs were drained, filled with dirt, capped, and left in place when they were removed from service. Residential USTs are not regulated in the State of South Carolina (i.e., there are no federal or state laws governing installation, management, or removal).

In 2007, MCAS Beaufort began a voluntary program to remove the unregulated, residential USTs and conduct sampling activities to determine if, and to what extent, petroleum constituents may have impacted the surrounding environment. MCAS Beaufort coordinated with SCDHEC to develop removal procedures that were consistent with procedural requirements for regulated USTs. All tank removal activities and follow-on actions are conducted in coordination with SCDHEC. To date, all known USTs have been removed from all residential properties within the LBMH area.

1.2 UST Removal and Assessment Process

During the UST removal process, a soil sample was collected from beneath the UST excavations (approximately 4 to 6 feet [ft] below ground surface [bgs]) and analyzed for a predetermined list of constituents of potential concern (COPCs) associated with the petroleum compounds found in home heating oil. These COPCs, derived from the *Quality Assurance Program Plan (QAPP) for the Underground Storage Tank Management Division, Revision 3.1* (SCDHEC, 2016) and the *Underground Storage Tank Assessment Instructions for Permanent Closure and Change-In-Service*, (SCDHEC, 2018), are as follows:

- benzene, toluene, ethylbenzene, and xylenes (BTEX),
- naphthalene, and
- five select polynuclear aromatic hydrocarbon (PAHs): benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene and dibenz(a,h)anthracene.

Soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form. In accordance with SCDHEC's *QAPP for the UST Management*

Division (SCDHEC, 2016), the soil screening levels consists of SCDHEC risk-based screening levels (RBSLs). It should be noted that the RBSLs for select PAHs were revised in Revision 2.0 of the QAPP (SCDHEC, 2013) and were revised again in Revision 3.0 (SCDHEC, 2015). The screening levels used for evaluation at each site were those levels that were in effect at the time of reporting and review by SCDHEC.

The results of the soil sampling at each former UST location were used to determine if a potential for groundwater contamination exists (i.e., soil results greater than RBSLs) and subsequently to select properties for follow-up initial groundwater assessment (IGWA) sampling. The results of the IGWA sampling (if necessary) are used to determine the presence or absence of the aforementioned COPCs in groundwater and identify whether former UST locations will require additional delineation of COPCs in groundwater. In order to delineate the extent of impact to groundwater, permanent wells are installed and a sampling program is established for those former UST locations where IGWA sampling has indicated the presence of COPCs in excess of the SCDHEC RBSLs for groundwater. Groundwater analytical results are also compared to the site specific groundwater vapor intrusion screening levels (VISLs) to evaluate the potential for vapor intrusion and the necessity for an investigation associated with this media. A multi-media investigation selection process tree, applicable to the LBMH UST investigations, is presented as Appendix A.

2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 246 Bobwhite Drive (Formerly 1177 Bobwhite Drive). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1177 Bobwhite Drive* (MCAS Beaufort, 2008) and *SCDHEC UST Assessment Report – 1177 Bobwhite Drive* (MCAS Beaufort, 2016). The UST Assessment Reports are provided in Appendix B. Details regarding the IGWA sampling activities at this site are provided in the *Investigation of Ground Water at Leaking Heating Oil UST Sites Report* – (Resolution Consultants, 2008) and the *Initial Groundwater Investigation Report – February and March 2017* (Resolution Consultants, 2017). The laboratory report that includes the pertinent IGWA analytical results for this site is presented in Appendix C.

2.1 UST Removal and Soil Sampling

In June 2007 and September 2015, two 280 gallon heating oil USTs were removed at 246 Bobwhite Drive (Formerly 1177 Bobwhite Drive). Tank 1 was removed on June 27, 2007 from

the front landscaped bed area adjacent to the house. Tank 2 was removed on September 8, 2015 from underneath the edge of the front concrete porch and the front landscaped bed area. The former UST locations are indicated in the figures of the UST Assessment Reports (Appendix B). The USTs were removed, cleaned, and shipped offsite for recycling. Visual evidence (i.e., staining or sheen) of petroleum impact was recorded at the time of the Tank 1 UST removal. There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the Tank 2 UST removal. According to the UST Assessment Reports (Appendix B), the depths to the bases of the USTs were 5'2" (Tank 1) and 5'4" (Tank 2) bgs and a single soil sample was collected for each at that depth. An additional soil sample was collected from the side of the excavation at a depth of 3'7" for Tank 1. The samples were collected from the fill port side of the former USTs to represent a worst case scenario.

Following UST removal, a soil sample was collected from the base of each excavation and the side in the excavation for Tank 1 and shipped to an offsite laboratory for analysis of the petroleum COPCs. Sampling was performed in accordance with applicable South Carolina regulation R.61-92, Part 280 (SCDHEC, 2017) and assessment guidelines.

2.2 Soil Analytical Results

A summary of the laboratory analytical results and SCDHEC RBSLs is presented in Table 1. A copy of the laboratory analytical data reports are included in the UST Assessment Reports presented in Appendix B. The laboratory analytical data reports include the soil results for the additional PAHs that were analyzed, but do not have associated RBSLs.

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST locations (Tanks 1 and 2) were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from the former UST locations (Tanks 1 and 2) at 246 Bobwhite Drive (Formerly 1177 Bobwhite Drive) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In letters dated July 16, 2008 and August 1, 2016 regarding Tank 1 and Tank 2, respectively, SCDHEC requested IGWAs be conducted at the former UST locations for 246 Bobwhite Drive (Formerly 1177 Bobwhite Drive) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letters are provided in Appendix D.

2.3 Groundwater Sampling

On July 30, 2008 and March 9, 2017, temporary monitoring wells were installed at 246 Bobwhite Drive (Formerly 1177 Bobwhite Drive), in accordance with the South Carolina Well Standards and Regulations (R.61-71.H-I, updated June 24, 2016). In order to provide data that can be used to determine whether COPCs are migrating to underlying groundwater, the monitoring wells were placed in the same general location as the former heating oil USTs (Tanks 1 and 2). The former UST locations are indicated in the figures of the UST Assessment Reports (Appendix B). Further details are provided in the *Investigation of Ground Water at Leaking Heating Oil UST Sites Report* (Resolution Consultants, 2008) and the *Initial Groundwater Investigation Report – February and March 2017* (Resolution Consultants, 2017).

The sampling strategy for this phase of the investigation required a one-time sampling event of the temporarily installed monitoring wells. Following well installation and development, groundwater samples were collected using low-flow methods and shipped to an offsite laboratory for analysis of the petroleum COPCs. Upon completion of groundwater sampling, the temporary well was abandoned in accordance with the South Carolina Well Standards and Regulations R.61-71 (SCDHEC, 2016). Field forms are provided in the *Investigation of Ground Water at Leaking Heating Oil UST Sites Report* (Resolution Consultants, 2008) and the *Initial Groundwater Investigation Report – February and March 2017* (Resolution Consultants, 2017).

2.4 Groundwater Analytical Results

A summary of the laboratory analytical results and SCDHEC RBSLs is presented in Table 2. A copy of the laboratory analytical data report is included in Appendix C.

The groundwater results collected from 246 Bobwhite Drive (Formerly 1177 Bobwhite Drive) were less than the SCDHEC RBSLs and the site specific groundwater VISLs (Table 2), which indicated that the groundwater was not impacted by COPCs associated with the former USTs at concentrations that present a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for groundwater, SCDHEC made the determination that NFA was required for 246 Bobwhite Drive (Formerly 1177 Bobwhite Drive). This NFA determination was

obtained in letters dated November 20, 2008 and July 27, 2017, regarding Tank 1 and Tank 2, respectively. SCDHEC's NFA letters are provided in Appendix D.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2008. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 1177 Bobwhite Drive, Laurel Bay Military Housing Area*, November 2008.

Marine Corps Air Station Beaufort, 2016. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 1177 Bobwhite Drive, Laurel Bay Military Housing Area*, March 2016.

Resolution Consultants, 2008. *Investigation of Ground Water at Leaking Heating Oil UST Sites Report for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, October 2008.

Resolution Consultants, 2017. *Initial Groundwater Investigation Report – February and March 2017 for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, June 2017.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2013. *Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 2.0*, April 2013.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2015. *Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.0*, May 2015.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2016. *Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.1*, February 2016.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2017. *R.61-92, Part 280, Underground Storage Tank Control Regulations*, March 2017.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2018. *Underground Storage Tank Assessment Instructions for Permanent Closure and Change-In-Service*, March 2018.

South Carolina Department of Health and Environmental Control Bureau of Water, 2016. *R.61-71, Well Standards*, June 2016.

Tables

Table 1
Laboratory Analytical Results - Soil
246 Bobwhite Drive (Formerly 1177 Bobwhite Drive)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Samples Collected 07/25/07 and 09/08/15		
		1177 Bobwhite Bottom 01 07/25/07	1177 Bobwhite Side 01 07/25/07	1177 Bobwhite 09/08/15
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)				
Benzene	0.003	0.00259	0.00048	ND
Ethylbenzene	1.15	0.00102	ND	0.0461
Naphthalene	0.036	0.00342	ND	ND
Toluene	0.627	0.00377	0.0021	ND
Xylenes, Total	13.01	0.00116	0.000961	0.0873
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)				
Benzo(a)anthracene	0.66	0.194	ND	ND
Benzo(b)fluoranthene	0.66	0.134	ND	ND
Benzo(k)fluoranthene	0.66	0.0459	ND	ND
Chrysene	0.66	0.272	ND	ND
Dibenz(a,h)anthracene	0.66	ND	ND	ND

Notes:

⁽¹⁾ South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.1 (SCDHEC, February 2016).

Bold font indicates the analyte was detected.

Bold font and shading indicates the concentration exceeds the SCDHEC RBSL.

EPA - United States Environmental Protection Agency

mg/kg - milligrams per kilogram

ND - not detected at the reporting limit (or method detection limit if shown on the laboratory report). The soil laboratory report is provided in Appendix B.

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Table 2
Laboratory Analytical Results - Groundwater
246 Bobwhite Drive (Formerly 1177 Bobwhite Drive)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Site-Specific Groundwater VISLs (µg/L) ⁽²⁾	Results Samples Collected 07/30/08 and 03/09/17		
			1177 Bobwhite A 07/30/08	1177 Bobwhite D 07/30/08	1177 Bobwhite Drive 03/09/17
Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)					
Benzene	5	16.24	ND	ND	ND
Ethylbenzene	700	45.95	ND	ND	ND
Naphthalene	25	29.33	ND	ND	ND
Toluene	1000	105,445	ND	ND	ND
Xylenes, Total	10,000	2,133	ND	ND	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (µg/L)					
Benzo(a)anthracene	10	NA	ND	ND	ND
Benzo(b)fluoranthene	10	NA	ND	ND	ND
Benzo(k)fluoranthene	10	NA	ND	ND	ND
Chrysene	10	NA	ND	ND	ND
Dibenz(a,h)anthracene	10	NA	ND	ND	ND

Notes:

⁽¹⁾ South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.1 (SCDHEC, February 2016).

⁽²⁾ Site-specific groundwater VISLs were calculated using the EPA JE Model Spreadsheets (Version 3.1, February 2004) and conservative modeling inputs representative of a small single-story house with an 8 foot ceiling. Site-specific groundwater VISLs were developed based on a target risk level of 1×10^{-6} , a target hazard quotient of 1 (per target organ), and a default residential exposure scenario, assuming exposure for 24 hours/day, 350 days/year, for 26 years. Modeling was performed for a range of depths to groundwater for application as appropriate in different areas of the Laurel Bay Military Housing Area. The most conservative levels are presented for comparison. Refer to Appendix H of the Uniform Federal Policy Sampling Analysis and Sampling Plan for Vapor Media, Revision 4 (Resolution Consultants, April 2017) for additional information.

Bold font indicates the analyte was detected.

Bold font and shading indicates the concentration exceeds the SCDHEC RBSL and/or the Site-Specific Groundwater VISL.

EPA - United States Environmental Protection Agency

JE - Johnson & Ettinger

NA - Not Applicable

ND - not detected at the reporting limit (or method detection limit if shown on the laboratory report). The groundwater laboratory report is provided in Appendix C.

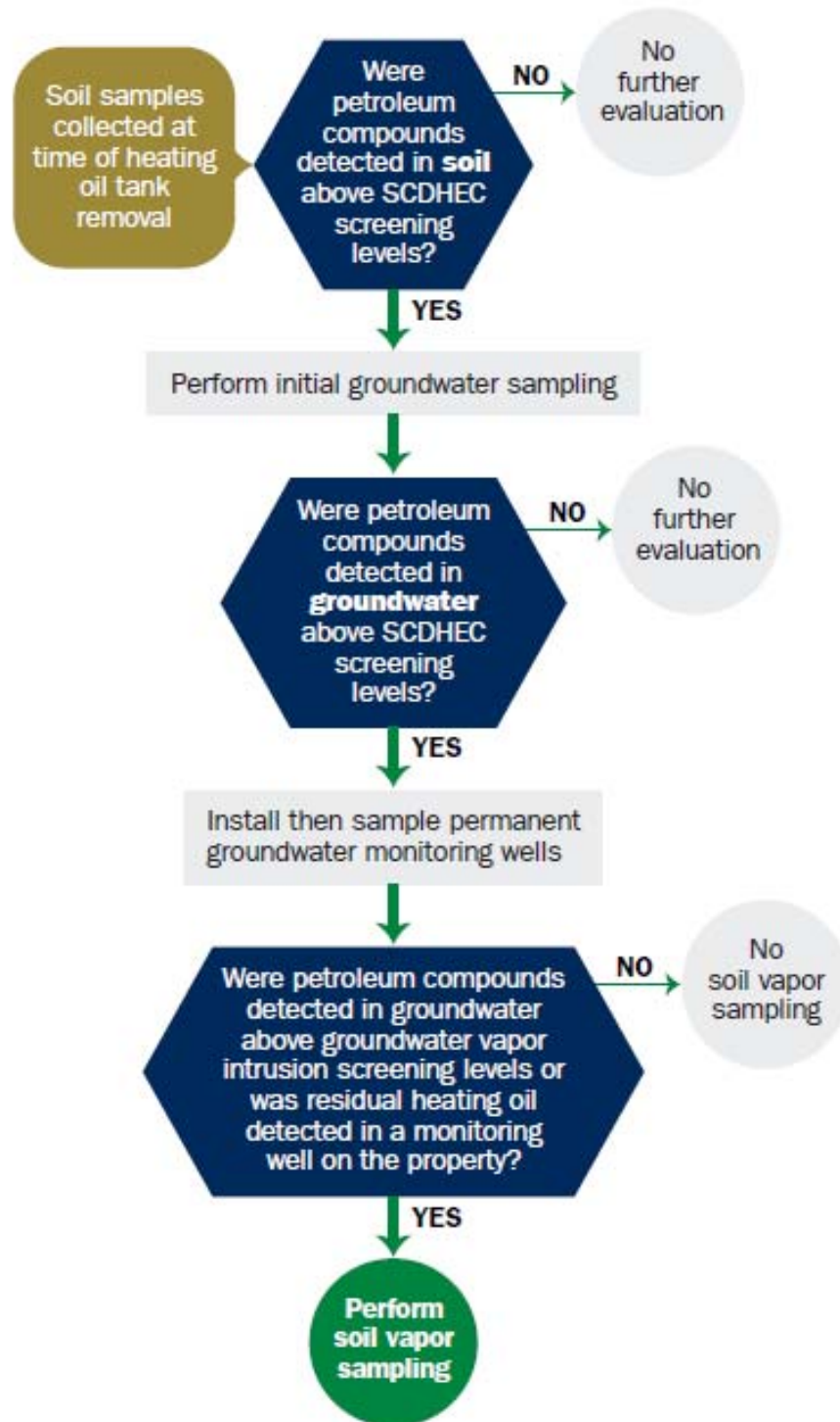
RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

µg/L - micrograms per liter

VISL - Vapor Intrusion Screening Level

Appendix A
Multi-Media Selection Process for LBMH



Appendix A - Multi-Media Selection Process for LBMH

Appendix B
UST Assessment Reports

Attachment 1
South Carolina Department of Health and Environmental Control (SCDHEC)
Underground Storage Tank (UST) Assessment Report

Date Received _____
State Use Only _____

Submit Completed Form To:
UST Program
SCDHEC
2600 Bull Street
Columbia, South Carolina 29201
Telephone (803) 896-6240

I. OWNERSHIP OF UST (S)

Beaufort Military Complex Family Housing		
Owner Name (Corporation, Individual, Public Agency, Other)		
1510 Laurel Bay Blvd.		
Mailing Address		
Beaufort	SC	29906
City	State	Zip Code
843	379-3305	Kyle Broadfoot
Area Code	Telephone Number	Contact Person

II. SITE IDENTIFICATION AND LOCATION

N/A		
Permit I.D. #		
Actus LEND LEASE Construction		
Facility Name or Company Site Identifier		
1177 BOBWHITE		
Street Address or State Road (as applicable)		
Beaufort, SC	29906	Beaufort
City	ZIP	County

III. INSURANCE INFORMATION

Insurance Statement

The petroleum release reported to DHEC on N/A at Permit ID # may qualify to receive state monies to pay for appropriate site rehabilitation activities. Before participation is allowed in the State Clean-up fund, written confirmation of the existence or non-existence of an environmental insurance policy is required. **This section must be completed.**

Is there now, or has there ever been an insurance policy or other financial mechanism that covers this UST release? YES ☐ NO ☐ (check one)

If you answered YES to the above question, please complete the following information:

My policy provider is: _____
The policy deductible is: _____
The policy limit is: _____

If you have this type of insurance, please include a copy of the policy with this report.

And

I do/do not (circle one) wish to participate in the Superb Program.

IV. CERTIFICATION (To be signed by the UST owner/operator.)

I certify that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Name (Type or print.)

Signature

To be completed by Notary Public:

Sworn before me this _____ day of _____, 20____.

(Name)

Notary Public for the state of _____
Please affix State seal if you are commissioned outside South Carolina

V. UST INFORMATION

Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
#2 DIESEL					
280G 350G					
Steel					
62"					
N					
N					
Removed					
6-27-07					
N					
Y					

- A. Product...(ex. Gas, Kerosene).....
- B. Capacity...(ex. 1k, 2k).....(APPROX)
- C. Age.....
- D. Construction Material...(ex. Steel, FRP).....
- E. Month/Year of Last Use.....
- F. Depth (ft.) To Base of Tank.....
- G. Spill Prevention Equipment Y/N.....
- H. Overfill Prevention Equipment Y/N.....
- I. Method of Closure Removed/Filled.....
- J. Date Tanks Removed/Filled.....
- K. Visible Corrosion or Pitting Y/N.....
- L. Visible Holes Y/N.....

M. Method of disposal for any USTs removed from the ground (attach disposal manifests)

Recycling - SCRAP Steel

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)

BROADHURST LAND-FILL -
Solidification & Subtitle D LANDFILL

O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST

TANK HAD PREVIOUSLY BEEN CUT OPEN AND FILLED W/ SAND

VI. PIPING INFORMATION

- A. Construction Material..(ex. Steel, FRP).....
- B. Distance from UST to Dispenser.....
- C. Number of Dispensers.....
- D. Type of System Pressure or Suction.....
- E. Was Piping Removed from the Ground? Y/N
- F. Visible Corrosion or Pitting Y/N.....
- G. Visible Holes Y/N.....
- H. Age.....

Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
Steel					
N/A					
-0-					
Electrical Pump					
Y					
N					
N					

- I. If any corrosion, pitting, or holes were observed, describe the location and extent for each piping run.

Mild pitting & RUST WAS VISIBLE on the fill
& vent pipes.

VII. BRIEF SITE DESCRIPTION AND HISTORY

Home Heating Oil TANK - RESIDENTIAL

VIII. SITE CONDITIONS

	Yes	No	Unk
<p>A. Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells?</p> <p>If yes, indicate depth and location on the site map.</p>	X		
<p>B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells?</p> <p>If yes, indicate location on site map and describe the odor (strong, mild, etc.)</p>	X		
<p>C. Was water present in the UST excavation, soil borings, or trenches?</p> <p>If yes, how far below land surface (indicate location and depth)?</p>	X		
<p>D. Did contaminated soils remain stockpiled on site after closure?</p> <p>If yes, indicate the stockpile location on the site map.</p> <p>Name of DHEC representative authorizing soil removal:</p>		X	
<p>E. Was a petroleum sheen or free product detected on any excavation or boring waters?</p> <p>If yes, indicate location and thickness.</p>	X		

IX. SAMPLE INFORMATION

A.

SCDHEC Lab Certification Number DW: 84009002

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
1	BOTTOM	S	SAND	62"	6-27-07 940	ECHENADRA JA. MANUVA	ND
2	SIDE	S	SAND	43"	6-27-07 950	JA. MANUVA	ND
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

X.

SAMPLING METHODOLOGY

Provide a detailed description of the methods used to collect and store the samples. Also include the preservative used for each sample. Please use the space provided below.

EPA Method 8260 B Volatile Organic Compounds

- Preservative: 2ea Sodium Bisulfate 1ea

EPA Method 8270 Poly Aromatic Hydrocarbons

- No Preservative

One (1) Sidewall And One (1) Bottom
Sample were secured from tank excavation
Samples were stored and shipped in an
insulated cooler w/ ice.

XI. RECEPTORS

	Yes	No
<p>A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?</p> <p>If yes, indicate type of receptor, distance, and direction on site map.</p>		X
<p>B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?</p> <p>If yes, indicate type of well, distance, and direction on site map.</p>		✓
<p>C. Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?</p> <p>If yes, indicate type of structure, distance, and direction on site map.</p>		✓
<p>D. Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination?</p> <p>If yes, indicate the type of utility, distance, and direction on the site map.</p>		✓
<p>E. Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete?</p> <p>If yes, indicate the area of contaminated soil on the site map.</p>		✓

SUMMARY OF ANALYSIS RESULTS

N/A

Enter the soil analytical data for each soil boring for all COC in the table below and on the following page.

CoC	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8
Benzene								
Toluene								
Ethylbenzene								
Xylenes								
Naphthalene								
Benzo(a)anthracene								
Benzo(b)flouranthene								
Benzo(k)flouranthene								
Chrysene								
Dibenz(a,h)anthracene								
TPH (EPA 3550)								

CoC	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16
Benzene								
Toluene								
Ethylbenzene								
Xylenes								
Naphthalene								
Benzo(a)anthracene								
Benzo(b)flouranthene								
Benzo(k)flouranthene								
Chrysene								
Dibenz(a,h)anthracene								
TPH (EPA 3550)								

SUMMARY OF ANALYSIS RESULTS (cont'd)

N/A

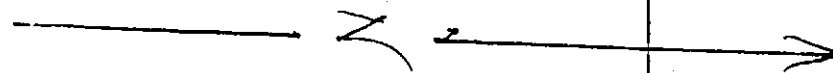
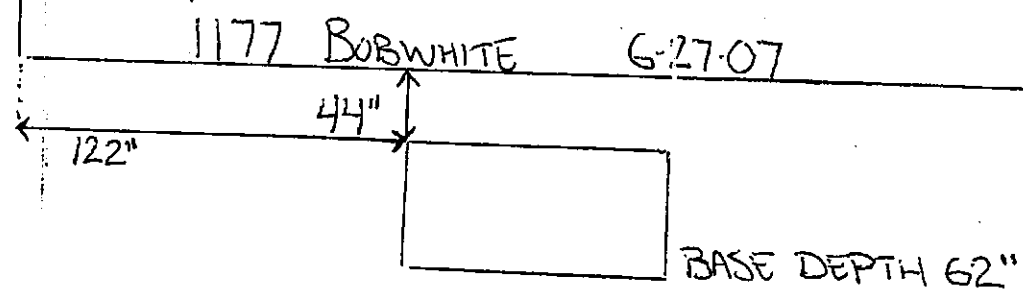
Enter the ground water analytical data for each sample for all CoC in the table below. If free product is present, indicate the measured thickness to the nearest 0.01 feet.

CoC	RBSL (µg/l)	W-1	W-2	W -3	W -4
Free Product Thickness	None				
Benzene	5				
Toluene	1,000				
Ethylbenzene	700				
Xylenes	10,000				
Total BTEX	N/A				
MTBE	40				
Naphthalene	25				
Benzo(a)anthracene	10				
Benzo(b)flouranthene	10				
Benzo(k)flouranthene	10				
Chrysene	10				
Dibenz(a,h)anthracene	10				
EDB	.05				
1,2-DCA	.05				
Lead	Site specific				

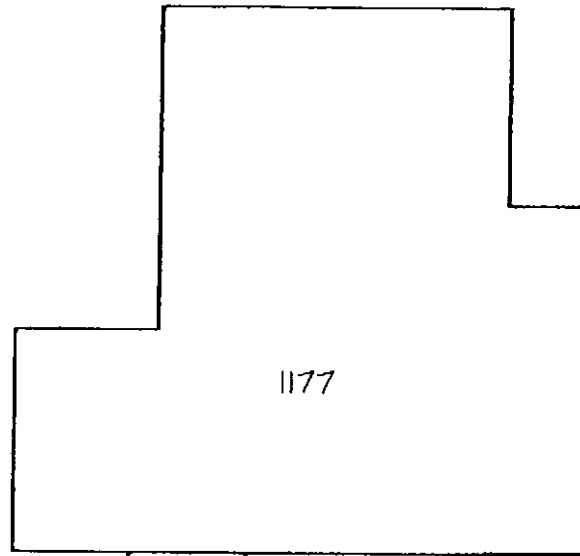


06.27.2007 10:44

1177 BoGwhite



(Mild Diesel Odors were Noticeable @ Bottom of Excavation)



A B X TANK 1 BASE 62"

BOBWHITE DRIVE

TANK 1 EXCAVATION

A-SOIL TEST SIDE SAMPLE @ 52"

B-SOIL TEST BOTTOM SAMPLE @ 62"

X-MILD DIESEL ODOR @ BOTTOM OF EXCAVATION



CUSTOMER:

BEAUFORT MILITARY COMPLEX FAMILY HOUSING

SITE ADDRESS:

1177 BOBWHITE DRIVE

SCALE:

1/16"=1'-0"

SUPPLIER:

EPG INC.

DATE:

9/27/2007

EPG INC.

P.O. BOX 1096

MOUNT PLEASANT, SC 29465-1096

ANALYTICAL RESULTS

You must submit the laboratory report and chain-of-custody form for the samples. These samples must be analyzed by a South Carolina certified laboratory.

(Attach Certified Analytical Results and Chain-of-Custody Here)
(Please see Form #4)

Client: EPG, INC.
PO BOX 1096
MT PLEASANT, SC 29465
Attn: JOHN MAHONEY

Work Order: OQG0558
Project: LAUREL BAY
Project Number: EP 2362

Sampled: 07/25/07
Received: 07/27/07

LABORATORY REPORT

Sample ID: 388 ACORN SIDE 02 - Lab Number: OQG0558-06 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Polynuclear Aromatic Hydrocarbons by EPA Method 8270 - Cont.											
15-99-2	Benzo (b) fluoranthene	24.5	U	ug/kg dry	24.5	232	1	08/08/07 23:37	REM	EPA 8270C	7H01015
17-08-9	Benzo (k) fluoranthene	24.5	U	ug/kg dry	24.5	232	1	08/08/07 23:37	REM	EPA 8270C	7H01015
11-24-2	Benzo (g,h,i) perylene	24.1	U	ug/kg dry	24.1	232	1	08/08/07 23:37	REM	EPA 8270C	7H01015
1-32-8	Benzo (a) pyrene	28.6	U	ug/kg dry	28.6	232	1	08/08/07 23:37	REM	EPA 8270C	7H01015
1-12-0	1-Methylnaphthalene	840		ug/kg dry	117	232	1	08/08/07 23:37	REM	EPA 8270C	7H01015
8-01-9	Chrysene	27.8	U	ug/kg dry	27.8	232	1	08/08/07 23:37	REM	EPA 8270C	7H01015
1-70-3	Dibenz (a,h) anthracene	30.5	U	ug/kg dry	30.5	232	1	08/08/07 23:37	REM	EPA 8270C	7H01015
16-44-0	Fluoranthene	34.8	I	ug/kg dry	33.4	232	1	08/08/07 23:37	REM	EPA 8270C	7H01015
1-73-7	Fluorene	116	I	ug/kg dry	91.0	232	1	08/08/07 23:37	REM	EPA 8270C	7H01015
1-39-5	Indeno (1,2,3-cd) pyrene	30.1	U	ug/kg dry	30.1	232	1	08/08/07 23:37	REM	EPA 8270C	7H01015
1-57-6	2-Methylnaphthalene	1070		ug/kg dry	99.1	232	1	08/08/07 23:37	REM	EPA 8270C	7H01015
1-20-3	Naphthalene	133	I	ug/kg dry	93.5	232	1	08/08/07 23:37	REM	EPA 8270C	7H01015
1-01-8	Phenanthrene	132	I	ug/kg dry	54.8	232	1	08/08/07 23:37	REM	EPA 8270C	7H01015
1-00-0	Pyrene	47.2	U	ug/kg dry	47.2	232	1	08/08/07 23:37	REM	EPA 8270C	7H01015
	rogate: 2-Fluorobiphenyl (24-121%)	50 %									
	rogate: Nitrobenzene-d5 (19-111%)	45 %									
	rogate: Terphenyl-d14 (44-171%)	112 %									

LABORATORY REPORT

Sample ID: 1177 BOGWHITE BOTTOM 01 - Lab Number: OQG0558-07 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General Chemistry Parameters											
	% Solids	81.3		%	0.100	0.100	1	08/01/07 17:50	RRP	EPA 160.3	7H01058
Volatile Organic Compounds by EPA Method 8260B											
143-2	Benzene	2.59		ug/kg dry	0.359	0.982	1	08/03/07 18:16	JWT	EPA 8260B	7H03050
141-4	Ethylbenzene	1.02		ug/kg dry	0.415	0.982	1	08/03/07 18:16	JWT	EPA 8260B	7H03050
120-3	Naphthalene	3.42		ug/kg dry	0.542	0.982	1	08/03/07 18:16	JWT	EPA 8260B	7H03050
1-88-3	Toluene	3.77		ug/kg dry	0.848	0.982	1	08/03/07 18:16	JWT	EPA 8260B	7H03050
10-20-7	Xylenes, total	1.16	V	ug/kg dry	0.510	0.982	1	08/03/07 18:16	JWT	EPA 8260B	7H03050
	rogate: 1,2-Dichloroethane-d4 (73-137%)	130 %									
	rogate: 4-Bromofluorobenzene (59-118%)	96 %									
	rogate: Dibromofluoromethane (55-145%)	109 %									
	rogate: Toluene-d8 (80-117%)	99 %									
Polynuclear Aromatic Hydrocarbons by EPA Method 8270											
12-9	Acenaphthene	2040		ug/kg dry	91.0	205	1	08/08/07 23:59	REM	EPA 8270C	7H01015
196-8	Acenaphthylene	120	U	ug/kg dry	120	205	1	08/08/07 23:59	REM	EPA 8270C	7H01015
12-7	Anthracene	1700		ug/kg dry	65.5	205	1	08/08/07 23:59	REM	EPA 8270C	7H01015
15-3	Benzo (a) anthracene	194	I	ug/kg dry	22.2	205	1	08/08/07 23:59	REM	EPA 8270C	7H01015
199-2	Benzo (b) fluoranthene	134	I	ug/kg dry	21.6	205	1	08/08/07 23:59	REM	EPA 8270C	7H01015
198-9	Benzo (k) fluoranthene	45.9	I	ug/kg dry	21.6	205	1	08/08/07 23:59	REM	EPA 8270C	7H01015
124-2	Benzo (g,h,i) perylene	21.3	U	ug/kg dry	21.3	205	1	08/08/07 23:59	REM	EPA 8270C	7H01015

Client: EPG, INC.
PO BOX 1096
MT PLEASANT, SC 29465
Attn: JOHN MAHONEY

Work Order: OQG0558
Project: LAUREL BAY
Project Number: EP 2362

Sampled: 07/25/07
Received: 07/27/07

LABORATORY REPORT

Sample ID: 1177 BOGWHITE BOTTOM 01 - Lab Number: OQG0558-07 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Polynuclear Aromatic Hydrocarbons by EPA Method 8270 - Cont.											
1-32-8	Benzo (a) pyrene	55.7	I	ug/kg dry	25.3	205	1	08/08/07 23:59	REM	EPA 8270C	7H01015
1-12-0	1-Methylnaphthalene	31300		ug/kg dry	2060	4110	20	08/10/07 04:55	REM	EPA 8270C	7H01015
8-01-9	Chrysene	272		ug/kg dry	24.6	205	1	08/08/07 23:59	REM	EPA 8270C	7H01015
1-70-3	Dibenz (a,h) anthracene	27.0	U	ug/kg dry	27.0	205	1	08/08/07 23:59	REM	EPA 8270C	7H01015
16-44-0	Fluoranthene	590		ug/kg dry	29.5	205	1	08/08/07 23:59	REM	EPA 8270C	7H01015
1-73-7	Fluorene	3180		ug/kg dry	80.4	205	1	08/08/07 23:59	REM	EPA 8270C	7H01015
3-39-5	Indeno (1,2,3-cd) pyrene	26.6	U	ug/kg dry	26.6	205	1	08/08/07 23:59	REM	EPA 8270C	7H01015
1-57-6	2-Methylnaphthalene	49600		ug/kg dry	1750	4110	20	08/10/07 04:55	REM	EPA 8270C	7H01015
1-20-3	Naphthalene	8590		ug/kg dry	1650	4110	20	08/10/07 04:55	REM	EPA 8270C	7H01015
1-01-8	Phenanthrene	9990		ug/kg dry	969	4110	20	08/10/07 04:55	REM	EPA 8270C	7H01015
9-00-0	Pyrene	1470		ug/kg dry	41.7	205	1	08/08/07 23:59	REM	EPA 8270C	7H01015
surrogate: 2-Fluorobiphenyl (24-121%)		59 %									
surrogate: Nitrobenzene-d5 (19-111%)		92 %									
surrogate: Terphenyl-d14 (44-171%)		103 %									

LABORATORY REPORT

Sample ID: 1177 BOGWHITE SIDE 01 - Lab Number: OQG0558-08 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General Chemistry Parameters											
	% Solids	84.2		%	0.100	0.100	1	08/01/07 17:50	RRP	EPA 160.3	7H01058
Volatile Organic Compounds by EPA Method 8260B											
13-2	Benzene	0.480	I	ug/kg dry	0.400	1.09	1	08/03/07 18:33	JWT	EPA 8260B	7H03050
41-4	Ethylbenzene	0.462	U	ug/kg dry	0.462	1.09	1	08/03/07 18:33	JWT	EPA 8260B	7H03050
10-3	Naphthalene	0.603	U	ug/kg dry	0.603	1.09	1	08/03/07 18:33	JWT	EPA 8260B	7H03050
88-3	Toluene	2.10		ug/kg dry	0.943	1.09	1	08/03/07 18:33	JWT	EPA 8260B	7H03050
1-20-7	Xylenes, total	0.961	V.I	ug/kg dry	0.567	1.09	1	08/03/07 18:33	JWT	EPA 8260B	7H03050
surrogate: 1,2-Dichloroethane-d4 (73-137%)		122 %									
surrogate: 4-Bromofluorobenzene (59-118%)		94 %									
surrogate: Dibromofluoromethane (55-145%)		108 %									
surrogate: Toluene-d8 (80-117%)		101 %									
Polynuclear Aromatic Hydrocarbons by EPA Method 8270											
2-9	Acenaphthene	87.9	U	ug/kg dry	87.9	198	1	08/09/07 00:22	REM	EPA 8270C	7H01015
36-8	Acenaphthylene	116	U	ug/kg dry	116	198	1	08/09/07 00:22	REM	EPA 8270C	7H01015
12-7	Anthracene	63.3	U	ug/kg dry	63.3	198	1	08/09/07 00:22	REM	EPA 8270C	7H01015
5-3	Benzo (a) anthracene	21.5	U	ug/kg dry	21.5	198	1	08/09/07 00:22	REM	EPA 8270C	7H01015
19-2	Benzo (b) fluoranthene	20.9	U	ug/kg dry	20.9	198	1	08/09/07 00:22	REM	EPA 8270C	7H01015
18-9	Benzo (k) fluoranthene	20.9	U	ug/kg dry	20.9	198	1	08/09/07 00:22	REM	EPA 8270C	7H01015
14-2	Benzo (g,h,i) perylene	20.6	U	ug/kg dry	20.6	198	1	08/09/07 00:22	REM	EPA 8270C	7H01015
1-8	Benzo (a) pyrene	24.4	U	ug/kg dry	24.4	198	1	08/09/07 00:22	REM	EPA 8270C	7H01015
1-0	1-Methylnaphthalene	99.6	U	ug/kg dry	99.6	198	1	08/09/07 00:22	REM	EPA 8270C	7H01015
1-9	Chrysene	23.7	U	ug/kg dry	23.7	198	1	08/09/07 00:22	REM	EPA 8270C	7H01015
1-3	Dibenz (a,h) anthracene	26.1	U	ug/kg dry	26.1	198	1	08/09/07 00:22	REM	EPA 8270C	7H01015

TestAmerica - Orlando, FL
Enid Ortiz For Shali Brown
Project Manager

Client: EPG, INC.
PO BOX 1096
MT PLEASANT, SC 29465
Attn: JOHN MAHONEY

Work Order: OQG0558
Project: LAUREL BAY
Project Number: EP 2362

Sampled: 07/25/07
Received: 07/27/07

LABORATORY REPORT

Sample ID: 1177 BOGWHITE SIDE 01 - Lab Number: OQG0558-08 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Polynuclear Aromatic Hydrocarbons by EPA Method 8270 - Cont.											
16-44-0	Fluoranthene	28.5	U	ug/kg dry	28.5	198	1	08/09/07 00:22	REM	EPA 8270C	7H01015
1-73-7	Fluorene	77.6	U	ug/kg dry	77.6	198	1	08/09/07 00:22	REM	EPA 8270C	7H01015
13-39-5	Indeno (1,2,3-cd) pyrene	25.7	U	ug/kg dry	25.7	198	1	08/09/07 00:22	REM	EPA 8270C	7H01015
5-57-6	2-Methylnaphthalene	84.6	U	ug/kg dry	84.6	198	1	08/09/07 00:22	REM	EPA 8270C	7H01015
1-20-3	Naphthalene	79.7	U	ug/kg dry	79.7	198	1	08/09/07 00:22	REM	EPA 8270C	7H01015
1-01-8	Phenanthrene	46.8	U	ug/kg dry	46.8	198	1	08/09/07 00:22	REM	EPA 8270C	7H01015
9-00-0	Pyrene	40.3	U	ug/kg dry	40.3	198	1	08/09/07 00:22	REM	EPA 8270C	7H01015
surrogate: 2-Fluorobiphenyl (24-121%)		31 %									
surrogate: Nitrobenzene-d5 (19-111%)		29 %									
surrogate: Terphenyl-d14 (44-171%)		76 %									

LABORATORY REPORT

Sample ID: 261 BIRCH BOTTOM 05 - Lab Number: OQG0558-09 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General Chemistry Parameters											
% Solids		85.4		%	0.100	0.100	1	08/01/07 17:50	RRP	EPA 160.3	7H01058
Volatile Organic Compounds by EPA Method 8260B											
13-2	Benzene	1.03		ug/kg dry	0.368	1.01	1	08/03/07 18:50	JWT	EPA 8260B	7H03050
41-4	Ethylbenzene	0.426	U	ug/kg dry	0.426	1.01	1	08/03/07 18:50	JWT	EPA 8260B	7H03050
10-3	Naphthalene	0.926	I	ug/kg dry	0.556	1.01	1	08/03/07 18:50	JWT	EPA 8260B	7H03050
88-3	Toluene	2.11		ug/kg dry	0.869	1.01	1	08/03/07 18:50	JWT	EPA 8260B	7H03050
120-7	Xylenes, total	0.563	V.I	ug/kg dry	0.523	1.01	1	08/03/07 18:50	JWT	EPA 8260B	7H03050
surrogate: 1,2-Dichloroethane-d4 (73-137%)		126 %									
surrogate: 4-Bromofluorobenzene (59-118%)		96 %									
surrogate: Dibromofluoromethane (55-145%)		107 %									
surrogate: Toluene-d8 (80-117%)		100 %									
Polynuclear Aromatic Hydrocarbons by EPA Method 8270											
2-9	Acenaphthene	175	I	ug/kg dry	86.7	196	1	08/09/07 00:44	REM	EPA 8270C	7H01015
16-8	Acenaphthylene	114	U	ug/kg dry	114	196	1	08/09/07 00:44	REM	EPA 8270C	7H01015
12-7	Anthracene	321		ug/kg dry	62.4	196	1	08/09/07 00:44	REM	EPA 8270C	7H01015
1-3	Benzo (a) anthracene	2290		ug/kg dry	21.2	196	1	08/09/07 00:44	REM	EPA 8270C	7H01015
9-2	Benzo (b) fluoranthene	2220		ug/kg dry	20.6	196	1	08/09/07 00:44	REM	EPA 8270C	7H01015
8-9	Benzo (k) fluoranthene	795		ug/kg dry	20.6	196	1	08/09/07 00:44	REM	EPA 8270C	7H01015
4-2	Benzo (g,h,i) perylene	571		ug/kg dry	20.3	196	1	08/09/07 00:44	REM	EPA 8270C	7H01015
8	Benzo (a) pyrene	1350		ug/kg dry	24.1	196	1	08/09/07 00:44	REM	EPA 8270C	7H01015
0	1-Methylnaphthalene	685		ug/kg dry	98.2	196	1	08/09/07 00:44	REM	EPA 8270C	7H01015
1-9	Chrysene	2740		ug/kg dry	23.4	196	1	08/09/07 00:44	REM	EPA 8270C	7H01015
3	Dibenz (a,h) anthracene	182	I	ug/kg dry	25.7	196	1	08/09/07 00:44	REM	EPA 8270C	7H01015
1-0	Fluoranthene	1980		ug/kg dry	28.1	196	1	08/09/07 00:44	REM	EPA 8270C	7H01015
7	Fluorene	328		ug/kg dry	76.6	196	1	08/09/07 00:44	REM	EPA 8270C	7H01015
1-5	Indeno (1,2,3-cd) pyrene	603		ug/kg dry	25.3	196	1	08/09/07 00:44	REM	EPA 8270C	7H01015

ANALYTICAL TESTING CORPORATION

ERG

24/1

PO Box 1096

Mt. Pleasant 5C

JOHN MAHONEY

843381-0467

84358/7764

JOHN MANNING



22-0558

Laurel Bay

EP 2362

State:

Invoice To:

PO#:

01
02
03
04
05
06
07
08
09
10

South Carolina Department of Health and Environmental Control (SCDHEC)
Underground Storage Tank (UST) Assessment Report

Date Received

State Use Only

Submit Completed Form To:

UST Program

SCDHEC

2600 Bull Street

Columbia, South Carolina 29201

Telephone (803) 896-7957

I. OWNERSHIP OF UST (S)

MCAS Beaufort, Commanding Officer Attn: NREAO (Craig Ehde)

Owner Name (Corporation, Individual, Public Agency, Other)

P.O. Box 55001

Mailing Address

Beaufort,
CitySouth Carolina
State29904-5001
Zip Code843
Area Code228-7317
Telephone NumberCraig Ehde
Contact Person**II. SITE IDENTIFICATION AND LOCATION**

Permit I.D. #

Laurel Bay Military Housing Area, Marine Corps Air Station, Beaufort, SC
Facility Name or Company Site Identifier1177 Bobwhite Drive, Laurel Bay Military Housing Area
Street Address or State Road (as applicable)Beaufort,
CityBeaufort
County

III. INSURANCE INFORMATION

Insurance Statement

The petroleum release reported to DHEC on _____ at Permit ID Number _____ may qualify to receive state monies to pay for appropriate site rehabilitation activities. Before participation is allowed in the State Clean-up fund, written confirmation of the existence or non-existence of an environmental insurance policy is required. **This section must be completed.**

Is there now, or has there ever been an insurance policy or other financial mechanism that covers this UST release? YES ____ NO ____ (check one)

If you answered YES to the above question, please complete the following information:

My policy provider is: _____
The policy deductible is: _____
The policy limit is: _____

If you have this type of insurance, please include a copy of the policy with this report.

IV. REQUEST FOR SUPERB FUNDING

I DO / DO NOT wish to participate in the SUPERB Program. (Circle one.)

V. CERTIFICATION (To be signed by the UST owner)

I certify that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Name (Type or print.)

Signature

To be completed by Notary Public:

Sworn before me this _____ day of _____, 20____

(Name)

Notary Public for the state of _____
Please affix State seal if you are commissioned outside South Carolina

VI. UST INFORMATION

- A. Product...(ex. Gas, Kerosene).....
- B. Capacity...(ex. 1k, 2k).....
- C. Age.....
- D. Construction Material...(ex. Steel, FRP).....
- E. Month/Year of Last Use.....
- F. Depth (ft.) To Base of Tank.....
- G. Spill Prevention Equipment Y/N.....
- H. Overfill Prevention Equipment Y/N.....
- I. Method of Closure Removed/Filled.....
- J. Date Tanks Removed/Filled.....
- K. Visible Corrosion or Pitting Y/N.....
- L. Visible Holes Y/N.....

1177 Bobwhite		
Heating oil		
280 gal		
Late 1950s		
Steel		
Mid 80s		
5'4"		
No		
No		
Removed		
9/8/2015		
Yes		
Yes		

- M. Method of disposal for any USTs removed from the ground (attach disposal manifests)
UST 1177Bobwhite was removed from the ground, cleaned and recycled.
See Attachment "A".
- N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)
Contaminated water was pumped from UST 1177Bobwhite and disposed by MCAS.
- O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST
Corrosion, pitting and holes were found throughout the tank.

VII. PIPING INFORMATION

- A. Construction Material..(ex. Steel, FRP).....
- B. Distance from UST to Dispenser.....
- C. Number of Dispensers.....
- D. Type of System Pressure or Suction.....
- E. Was Piping Removed from the Ground? Y/N
- F. Visible Corrosion or Pitting Y/N.....
- G. Visible Holes Y/N.....
- H. Age.....

1177		
Bobwhite		
Steel & Copper		
N/A		
N/A		
Suction		
No		
Yes		
No		
Late 1950s		

- I. If any corrosion, pitting, or holes were observed, describe the location and extent for each piping run.

Corrosion and pitting were found on the surface of the steel vent pipe. Copper supply and return lines were sound.

VIII. BRIEF SITE DESCRIPTION AND HISTORY

The USTs at the residences are constructed of single wall steel and formerly contained fuel oil for heating. These USTs were installed in the late 1950s and last used in the mid 1980s.

IX. SITE CONDITIONS

	Yes	No	Unk
<p>A. Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells?</p> <p>If yes, indicate depth and location on the site map.</p>		X	
<p>B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells?</p> <p>If yes, indicate location on site map and describe the odor (strong, mild, etc.)</p>		X	
<p>C. Was water present in the UST excavation, soil borings, or trenches?</p> <p>If yes, how far below land surface (indicate location and depth)?</p>		X	
<p>D. Did contaminated soils remain stockpiled on site after closure?</p> <p>If yes, indicate the stockpile location on the site map.</p> <p>Name of DHEC representative authorizing soil removal:</p>		X	
<p>E. Was a petroleum sheen or free product detected on any excavation or boring waters?</p> <p>If yes, indicate location and thickness.</p>		X	

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
1177 Bobwhite	Excav at fill end	Soil	Sandy	5'4"	9/8/15 1215 hrs	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

Provide a detailed description of the methods used to collect and store the samples. Also include the preservative used for each sample. Please use the space provided below.

Sampling was performed in accordance with SC DHEC R.61-92 Part 280 and SC DHEC Assessment Guidelines. Sample containers were prepared by the testing laboratory. The grab method was utilized to fill the sample containers leaving as little head space as possible and immediately capped. Soil samples were extracted from area below tank. The samples were marked, logged, and immediately placed in a sample cooler packed with ice to maintain an approximate temperature of 4 degrees Centigrade. Tools were thoroughly cleaned and decontaminated with the seven step decon process after each use. The samples remained in custody of SBG-EEG, Inc. until they were transferred to Test America Incorporated for analysis as documented in the Chain of Custody Record.

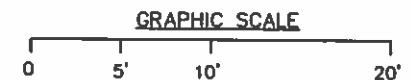
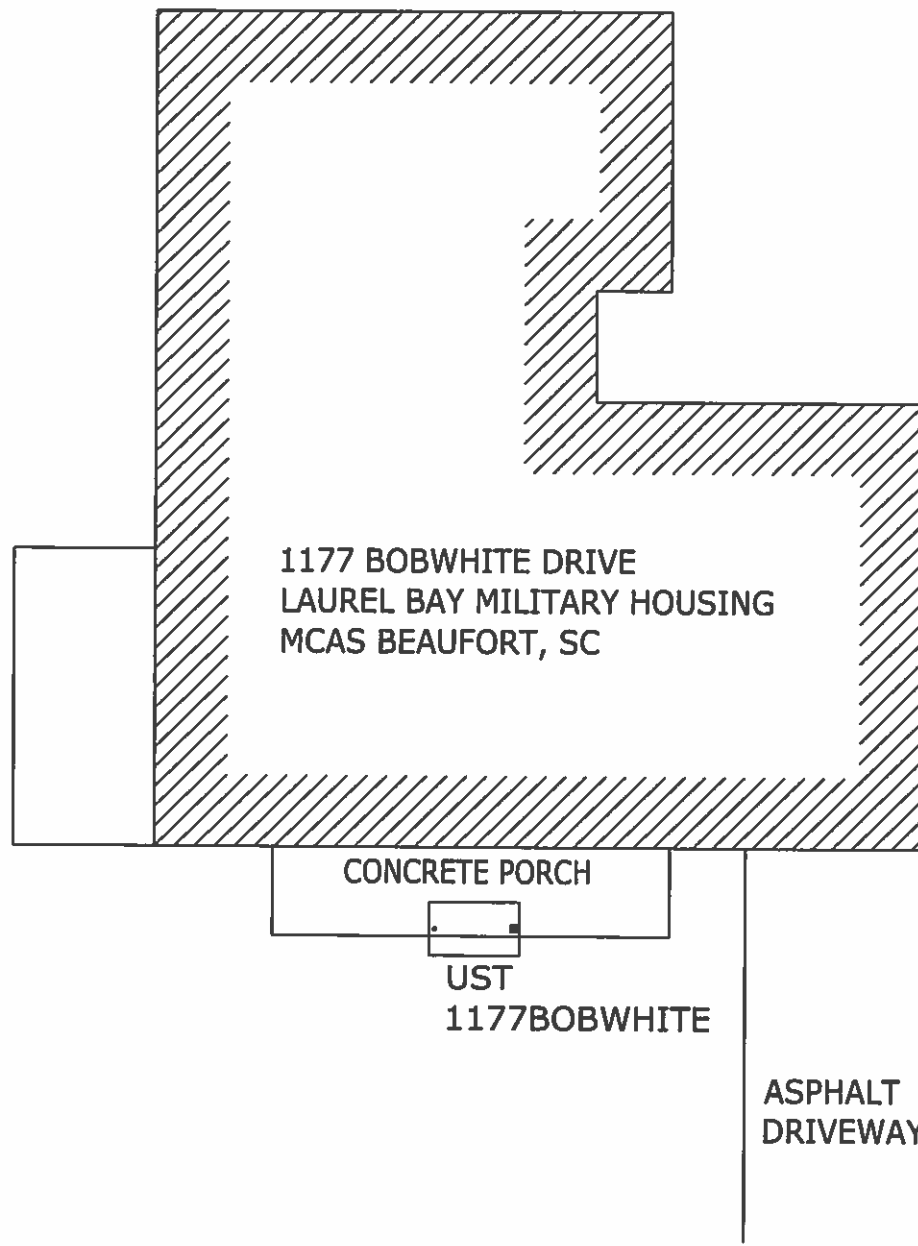
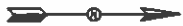
XII. RECEPTORS

	Yes	No
<p>A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?</p> <p>If yes, indicate type of receptor, distance, and direction on site map.</p>		X
<p>B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?</p> <p>If yes, indicate type of well, distance, and direction on site map.</p>		X
<p>C. Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?</p> <p>If yes, indicate type of structure, distance, and direction on site map.</p>		X
<p>D. Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination?</p> <p style="text-align: right;">*Sewer, water, electricity cable, fiber optic & geothermal</p> <p>If yes, indicate the type of utility, distance, and direction on the site map.</p>	*X	
<p>E. Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete?</p> <p>If yes, indicate the area of contaminated soil on the site map.</p>		X

XIII. SITE MAP

You must supply a scaled site map. It should include all buildings, road names, utilities, tank and dispenser island locations, labeled sample locations, extent of excavation, and any other pertinent information.

(Attach Site Map Here)



SBG-EEG

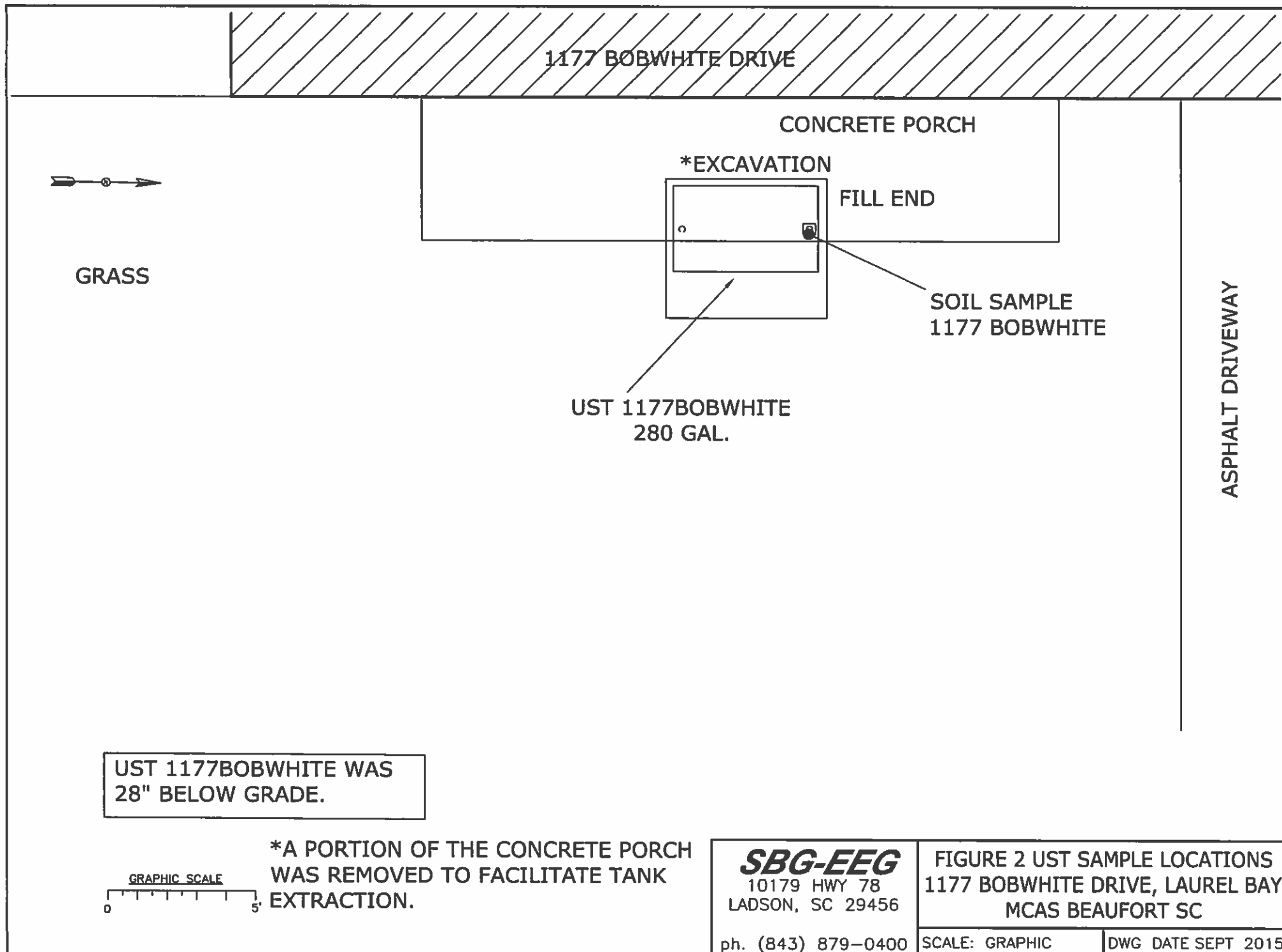
10179 HWY 78
LADSON, SC 29456

ph. (843) 879-0400

FIGURE 1 SITE MAP
1177 BOBWHITE DRIVE, LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE SEPT 2015



SBG-EEG

10179 HWY 78
LADSON, SC 29456

ph. (843) 879-0400

FIGURE 2 UST SAMPLE LOCATIONS
1177 BOBWHITE DRIVE, LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE SEPT 2015



Picture 1: Location of UST 1174Bobwhite.



Picture 2: UST 1174Bobwhite excavation.



Picture 3: UST 1174Bobwhite excavation.



Picture 4: Site after completion of tank removal.

XIV. SUMMARY OF ANALYSIS RESULTS

Enter the soil analytical data for each soil boring for all COC in the table below and on the following page.

CoC	UST	1177Bobwhite					
Benzene		ND					
Toluene		ND					
Ethylbenzene		0.0461 mg/kg					
Xylenes		0.0873 mg/kg					
Naphthalene		ND					
Benzo (a) anthracene		ND					
Benzo (b) fluoranthene		ND					
Benzo (k) fluoranthene		ND					
Chrysene		ND					
Dibenz (a, h) anthracene		ND					
TPH (EPA 3550)							

CoC							
Benzene							
Toluene							
Ethylbenzene							
Xylenes							
Naphthalene							
Benzo (a) anthracene							
Benzo (b) fluoranthene							
Benzo (k) fluoranthene							
Chrysene							
Dibenz (a, h) anthracene							
TPH (EPA 3550)							

SUMMARY OF ANALYSIS RESULTS (cont'd)

Enter the ground water analytical data for each sample for all CoC in the table below. If free product is present, indicate the measured thickness to the nearest 0.01 feet.

CoC	RBSL (µg/l)	W-1	W-2	W -3	W -4
Free Product Thickness	None				
Benzene	5				
Toluene	1,000				
Ethylbenzene	700				
Xylenes	10,000				
Total BTEX	N/A				
MTBE	40				
Naphthalene	25				
Benzo (a) anthracene	10				
Benzo (b) flouranthene	10				
Benzo (k) flouranthene	10				
Chrysene	10				
Dibenz (a, h) anthracene	10				
EDB	.05				
1,2-DCA	5				
Lead	Site specific				

XV. ANALYTICAL RESULTS

You must submit the laboratory report and chain-of-custody form for the samples. These samples must be analyzed by a South Carolina certified laboratory.

(Attach Certified Analytical Results and Chain-of-Custody Here)
(Please see Form #4)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-87222-1

Client Project/Site: Laurel Bay Housing Project

For:

Small Business Group Inc.
10179 Highway 78
Ladson, South Carolina 29456

Attn: Tom McElwee



Authorized for release by:
9/24/2015 1:08:33 PM

Ken Hayes, Project Manager II
(615)301-5035
ken.hayes@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-87222-1

Lab Sample ID
490-87222-1

Client Sample ID
1177 Bobwhite

Matrix
Soil

Collected	Received
09/08/15 12:15	09/12/15 12:10

1

3

4

5

6

7

8

9

10

11

12

13

TestAmerica Nashville

Case Narrative

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-87222-1

Job ID: 490-87222-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-87222-1

Comments

No additional comments.

Receipt

The sample was received on 9/12/2015 12:10 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8° C.

GC/MS VOA

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 490-282252.

Method(s) 8260B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: 1177 Bobwhite (490-87222-1).

Method(s) 8260B: The method blank for preparation batch 283431 contained Naphthalene above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method(s) 8260B: The method blank for analytical batch 490-283431 contained Xylenes, Total and Ethylbenzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260B: The following sample was diluted due to the nature of the sample matrix: 1177 Bobwhite (490-87222-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 490-283431.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-87222-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-87222-1

Client Sample ID: 1177 Bobwhite

Date Collected: 09/08/15 12:15

Date Received: 09/12/15 12:10

Lab Sample ID: 490-87222-1

Matrix: Soil

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.120	0.0408	mg/Kg	⊗	09/22/15 11:13	09/22/15 21:03	1
Ethylbenzene	0.0461	J B	0.120	0.0408	mg/Kg	⊗	09/22/15 11:13	09/22/15 21:03	1
Naphthalene	ND		0.300	0.102	mg/Kg	⊗	09/22/15 11:13	09/22/15 21:03	1
Toluene	ND		0.120	0.0444	mg/Kg	⊗	09/22/15 11:13	09/22/15 21:03	1
Xylenes, Total	0.0873	J B	0.180	0.0744	mg/Kg	⊗	09/22/15 11:13	09/22/15 21:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	72		70 - 130	09/22/15 11:13	09/22/15 21:03	1
4-Bromofluorobenzene (Surr)	101		70 - 130	09/22/15 11:13	09/22/15 21:03	1
Dibromofluoromethane (Surr)	92		70 - 130	09/22/15 11:13	09/22/15 21:03	1
Toluene-d8 (Surr)	107		70 - 130	09/22/15 11:13	09/22/15 21:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0744	0.0111	mg/Kg	⊗	09/15/15 10:11	09/15/15 19:18	1
Acenaphthylene	ND		0.0744	0.0100	mg/Kg	⊗	09/15/15 10:11	09/15/15 19:18	1
Anthracene	ND		0.0744	0.0100	mg/Kg	⊗	09/15/15 10:11	09/15/15 19:18	1
Benzo[a]anthracene	ND		0.0744	0.0167	mg/Kg	⊗	09/15/15 10:11	09/15/15 19:18	1
Benzo[a]pyrene	ND		0.0744	0.0133	mg/Kg	⊗	09/15/15 10:11	09/15/15 19:18	1
Benzo[b]fluoranthene	ND		0.0744	0.0133	mg/Kg	⊗	09/15/15 10:11	09/15/15 19:18	1
Benzo[g,h,i]perylene	ND		0.0744	0.0100	mg/Kg	⊗	09/15/15 10:11	09/15/15 19:18	1
Benzo[k]fluoranthene	ND		0.0744	0.0156	mg/Kg	⊗	09/15/15 10:11	09/15/15 19:18	1
1-Methylnaphthalene	ND		0.0744	0.0156	mg/Kg	⊗	09/15/15 10:11	09/15/15 19:18	1
Pyrene	ND		0.0744	0.0133	mg/Kg	⊗	09/15/15 10:11	09/15/15 19:18	1
Phenanthrene	ND		0.0744	0.0100	mg/Kg	⊗	09/15/15 10:11	09/15/15 19:18	1
Chrysene	ND		0.0744	0.0100	mg/Kg	⊗	09/15/15 10:11	09/15/15 19:18	1
Dibenz[a,h]anthracene	ND		0.0744	0.00778	mg/Kg	⊗	09/15/15 10:11	09/15/15 19:18	1
Fluoranthene	ND		0.0744	0.0100	mg/Kg	⊗	09/15/15 10:11	09/15/15 19:18	1
Fluorene	ND		0.0744	0.0133	mg/Kg	⊗	09/15/15 10:11	09/15/15 19:18	1
Indeno[1,2,3-cd]pyrene	ND		0.0744	0.0111	mg/Kg	⊗	09/15/15 10:11	09/15/15 19:18	1
Naphthalene	ND		0.0744	0.0100	mg/Kg	⊗	09/15/15 10:11	09/15/15 19:18	1
2-Methylnaphthalene	ND		0.0744	0.0178	mg/Kg	⊗	09/15/15 10:11	09/15/15 19:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	50		29 - 120	09/15/15 10:11	09/15/15 19:18	1
Terphenyl-d14 (Surr)	68		13 - 120	09/15/15 10:11	09/15/15 19:18	1
Nitrobenzene-d5 (Surr)	51		27 - 120	09/15/15 10:11	09/15/15 19:18	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89		0.10	0.10	%			09/15/15 12:44	1

TestAmerica Nashville

QC Sample Results

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-87222-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-283431/11
Matrix: Solid
Analysis Batch: 283431

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene			ND		0.100	0.0340	mg/Kg			09/22/15 15:34	1
Ethylbenzene			0.04057	J	0.100	0.0340	mg/Kg			09/22/15 15:34	1
Naphthalene			0.2794		0.250	0.0850	mg/Kg			09/22/15 15:34	1
Toluene			0.5446		0.100	0.0370	mg/Kg			09/22/15 15:34	1
Xylenes, Total			0.07483	J	0.150	0.0620	mg/Kg			09/22/15 15:34	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			90		70 - 130		09/22/15 15:34	1
4-Bromofluorobenzene (Surr)			101		70 - 130		09/22/15 15:34	1
Dibromofluoromethane (Surr)			100		70 - 130		09/22/15 15:34	1
Toluene-d8 (Surr)			106		70 - 130		09/22/15 15:34	1

Lab Sample ID: MB 490-283431/19
Matrix: Solid
Analysis Batch: 283431

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene			ND		0.100	0.0340	mg/Kg			09/22/15 20:03	1
Ethylbenzene			0.04041	J	0.100	0.0340	mg/Kg			09/22/15 20:03	1
Naphthalene			0.2726		0.250	0.0850	mg/Kg			09/22/15 20:03	1
Toluene			ND		0.100	0.0370	mg/Kg			09/22/15 20:03	1
Xylenes, Total			0.07225	J	0.150	0.0620	mg/Kg			09/22/15 20:03	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			86		70 - 130		09/22/15 20:03	1
4-Bromofluorobenzene (Surr)			107		70 - 130		09/22/15 20:03	1
Dibromofluoromethane (Surr)			98		70 - 130		09/22/15 20:03	1
Toluene-d8 (Surr)			103		70 - 130		09/22/15 20:03	1

Lab Sample ID: LCS 490-283431/8
Matrix: Solid
Analysis Batch: 283431

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Result	Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	2.50			2.802		mg/Kg		112	75 - 127
Ethylbenzene	2.50			2.822	B	mg/Kg		113	80 - 134
Naphthalene	2.50			2.884	B	mg/Kg		115	69 - 150
Toluene	2.50			2.970		mg/Kg		119	80 - 132
Xylenes, Total	5.00			5.807	B	mg/Kg		116	80 - 137

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)			86		70 - 130
4-Bromofluorobenzene (Surr)			100		70 - 130
Dibromofluoromethane (Surr)			93		70 - 130
Toluene-d8 (Surr)			99		70 - 130

TestAmerica Nashville

QC Sample Results

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-87222-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-283431/9

Matrix: Solid

Analysis Batch: 283431

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	2.50	2.685		mg/Kg		107	75 - 127	4	50
Ethylbenzene	2.50	2.676	B	mg/Kg		107	80 - 134	5	50
Naphthalene	2.50	2.802	B	mg/Kg		112	69 - 150	3	50
Toluene	2.50	3.066		mg/Kg		123	80 - 132	3	50
Xylenes, Total	5.00	5.486	B	mg/Kg		110	80 - 137	6	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	93		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-281605/1-A

Matrix: Solid

Analysis Batch: 281656

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 281605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		09/15/15 10:11	09/15/15 18:27	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		09/15/15 10:11	09/15/15 18:27	1
Anthracene	ND		0.0670	0.00900	mg/Kg		09/15/15 10:11	09/15/15 18:27	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		09/15/15 10:11	09/15/15 18:27	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		09/15/15 10:11	09/15/15 18:27	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		09/15/15 10:11	09/15/15 18:27	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		09/15/15 10:11	09/15/15 18:27	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		09/15/15 10:11	09/15/15 18:27	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		09/15/15 10:11	09/15/15 18:27	1
Pyrene	ND		0.0670	0.0120	mg/Kg		09/15/15 10:11	09/15/15 18:27	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		09/15/15 10:11	09/15/15 18:27	1
Chrysene	ND		0.0670	0.00900	mg/Kg		09/15/15 10:11	09/15/15 18:27	1
Dibenz[a,h]anthracene	ND		0.0670	0.00700	mg/Kg		09/15/15 10:11	09/15/15 18:27	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		09/15/15 10:11	09/15/15 18:27	1
Fluorene	ND		0.0670	0.0120	mg/Kg		09/15/15 10:11	09/15/15 18:27	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		09/15/15 10:11	09/15/15 18:27	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		09/15/15 10:11	09/15/15 18:27	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		09/15/15 10:11	09/15/15 18:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	78		29 - 120	09/15/15 10:11	09/15/15 18:27	1
Terphenyl-d14 (Surr)	92		13 - 120	09/15/15 10:11	09/15/15 18:27	1
Nitrobenzene-d5 (Surr)	88		27 - 120	09/15/15 10:11	09/15/15 18:27	1

TestAmerica Nashville

QC Sample Results

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-87222-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-281605/2-A
Matrix: Solid
Analysis Batch: 281656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 281605
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.67	1.401		mg/Kg		84	38 - 120
Anthracene	1.67	1.458		mg/Kg		87	46 - 124
Benzo[a]anthracene	1.67	1.437		mg/Kg		86	45 - 120
Benzo[a]pyrene	1.67	1.539		mg/Kg		92	45 - 120
Benzo[b]fluoranthene	1.67	1.519		mg/Kg		91	42 - 120
Benzo[g,h,i]perylene	1.67	1.557		mg/Kg		93	38 - 120
Benzo[k]fluoranthene	1.67	1.412		mg/Kg		85	42 - 120
1-Methylnaphthalene	1.67	1.403		mg/Kg		84	32 - 120
Pyrene	1.67	1.529		mg/Kg		92	43 - 120
Phenanthrene	1.67	1.376		mg/Kg		83	45 - 120
Chrysene	1.67	1.416		mg/Kg		85	43 - 120
Dibenz(a,h)anthracene	1.67	1.597		mg/Kg		96	32 - 128
Fluoranthene	1.67	1.489		mg/Kg		89	46 - 120
Fluorene	1.67	1.395		mg/Kg		84	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.539		mg/Kg		92	41 - 121
Naphthalene	1.67	1.387		mg/Kg		83	32 - 120
2-Methylnaphthalene	1.67	1.314		mg/Kg		79	28 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	80		29 - 120
Terphenyl-d14 (Surr)	98		13 - 120
Nitrobenzene-d5 (Surr)	91		27 - 120

Lab Sample ID: 490-87222-1 MS
Matrix: Soil
Analysis Batch: 281656

Client Sample ID: 1177 Bobwhite
Prep Type: Total/NA
Prep Batch: 281605
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	ND		1.85	1.299		mg/Kg	⊛	70	25 - 120
Anthracene	ND		1.85	1.483		mg/Kg	⊛	80	28 - 125
Benzo[a]anthracene	ND		1.85	1.548		mg/Kg	⊛	84	23 - 120
Benzo[a]pyrene	ND		1.85	1.643		mg/Kg	⊛	89	15 - 128
Benzo[b]fluoranthene	ND		1.85	1.659		mg/Kg	⊛	90	12 - 133
Benzo[g,h,i]perylene	ND		1.85	1.608		mg/Kg	⊛	87	22 - 120
Benzo[k]fluoranthene	ND		1.85	1.569		mg/Kg	⊛	85	28 - 120
1-Methylnaphthalene	ND		1.85	1.153		mg/Kg	⊛	62	10 - 120
Pyrene	ND		1.85	1.710		mg/Kg	⊛	92	20 - 123
Phenanthrene	ND		1.85	1.432		mg/Kg	⊛	77	21 - 122
Chrysene	ND		1.85	1.553		mg/Kg	⊛	84	20 - 120
Dibenz(a,h)anthracene	ND		1.85	1.628		mg/Kg	⊛	88	12 - 128
Fluoranthene	ND		1.85	1.748		mg/Kg	⊛	94	10 - 143
Fluorene	ND		1.85	1.349		mg/Kg	⊛	73	20 - 120
Indeno[1,2,3-cd]pyrene	ND		1.85	1.588		mg/Kg	⊛	86	22 - 121
Naphthalene	ND		1.85	1.090		mg/Kg	⊛	59	10 - 120
2-Methylnaphthalene	ND		1.85	1.085		mg/Kg	⊛	59	13 - 120

TestAmerica Nashville

QC Sample Results

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-87222-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-87222-1 MS

Matrix: Soil

Analysis Batch: 281656

Client Sample ID: 1177 Bobwhite

Prep Type: Total/NA

Prep Batch: 281605

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	64		29 - 120
Terphenyl-d14 (Surr)	88		13 - 120
Nitrobenzene-d5 (Surr)	68		27 - 120

Lab Sample ID: 490-87222-1 MSD

Matrix: Soil

Analysis Batch: 281656

Client Sample ID: 1177 Bobwhite

Prep Type: Total/NA

Prep Batch: 281605

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	ND		1.84	1.457		mg/Kg	⊖	79	25 - 120	11	50
Anthracene	ND		1.84	1.651		mg/Kg	⊖	90	28 - 125	11	49
Benzo[a]anthracene	ND		1.84	1.633		mg/Kg	⊖	89	23 - 120	5	50
Benzo[a]pyrene	ND		1.84	1.749		mg/Kg	⊖	95	15 - 128	6	50
Benzo[b]fluoranthene	ND		1.84	1.769		mg/Kg	⊖	96	12 - 133	6	50
Benzo[g,h,i]perylene	ND		1.84	1.772		mg/Kg	⊖	96	22 - 120	10	50
Benzo[k]fluoranthene	ND		1.84	1.625		mg/Kg	⊖	88	28 - 120	4	45
1-Methylnaphthalene	ND		1.84	1.334		mg/Kg	⊖	72	10 - 120	15	50
Pyrene	ND		1.84	1.689		mg/Kg	⊖	92	20 - 123	1	50
Phenanthrene	ND		1.84	1.550		mg/Kg	⊖	84	21 - 122	8	50
Chrysene	ND		1.84	1.610		mg/Kg	⊖	88	20 - 120	4	49
Dibenz(a,h)anthracene	ND		1.84	1.803		mg/Kg	⊖	98	12 - 128	10	50
Fluoranthene	ND		1.84	1.734		mg/Kg	⊖	94	10 - 143	1	50
Fluorene	ND		1.84	1.505		mg/Kg	⊖	82	20 - 120	11	50
Indeno[1,2,3-cd]pyrene	ND		1.84	1.759		mg/Kg	⊖	96	22 - 121	10	50
Naphthalene	ND		1.84	1.236		mg/Kg	⊖	67	10 - 120	13	50
2-Methylnaphthalene	ND		1.84	1.237		mg/Kg	⊖	67	13 - 120	13	50

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	68		29 - 120
Terphenyl-d14 (Surr)	94		13 - 120
Nitrobenzene-d5 (Surr)	71		27 - 120

Method: Moisture - Percent Moisture

Lab Sample ID: 580-53250-C-3 DU

Matrix: Solid

Analysis Batch: 281699

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Solids	88		86		%		2	20

TestAmerica Nashville

QC Association Summary

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-87222-1

GC/MS VOA

Analysis Batch: 283431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-87222-1	1177 Bobwhite	Total/NA	Soil	8260B	283468
LCS 490-283431/8	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-283431/9	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-283431/11	Method Blank	Total/NA	Solid	8260B	
MB 490-283431/19	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 283468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-87222-1	1177 Bobwhite	Total/NA	Soil	5035	8

GC/MS Semi VOA

Prep Batch: 281605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-87222-1	1177 Bobwhite	Total/NA	Soil	3550C	281605
490-87222-1 MS	1177 Bobwhite	Total/NA	Soil	3550C	
490-87222-1 MSD	1177 Bobwhite	Total/NA	Soil	3550C	
LCS 490-281605/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-281605/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 281656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-87222-1	1177 Bobwhite	Total/NA	Soil	8270D	281605
490-87222-1 MS	1177 Bobwhite	Total/NA	Soil	8270D	281605
490-87222-1 MSD	1177 Bobwhite	Total/NA	Soil	8270D	281605
LCS 490-281605/2-A	Lab Control Sample	Total/NA	Solid	8270D	281605
MB 490-281605/1-A	Method Blank	Total/NA	Solid	8270D	281605

General Chemistry

Analysis Batch: 281699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-87222-1	1177 Bobwhite	Total/NA	Soil	Moisture	
490-87303-C-1 MS	Matrix Spike	Total/NA	Solid	Moisture	
490-87303-C-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	Moisture	
580-53250-C-3 DU	Duplicate	Total/NA	Solid	Moisture	

TestAmerica Nashville

Lab Chronicle

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-87222-1

Client Sample ID: 1177 Bobwhite

Date Collected: 09/08/15 12:15

Date Received: 09/12/15 12:10

Lab Sample ID: 490-87222-1

Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.17 g	5.0 mL	283468	09/22/15 11:13	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5.17 g	5.0 mL	283431	09/22/15 21:03	MJH	TAL NSH
Total/NA	Prep	3550C			30.21 g	1 mL	281605	09/15/15 10:11	LDC	TAL NSH
Total/NA	Analysis	8270D		1	30.21 g	1 mL	281656	09/15/15 19:18	BES	TAL NSH
Total/NA	Analysis	Moisture		1			281699	09/15/15 12:44	MNM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-87222-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
Moisture	Percent Moisture	EPA	TAL NSH

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-87222-1

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below

Authority	Program	EPA Region	Certification ID	Expiration Date
South Carolina	State Program	4	84009 (001)	02-28-16

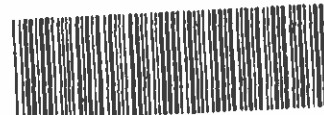
The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8270D	3550C	Soil	1-Methylnaphthalene
Moisture		Soil	Percent Solids

TestAmerica Nashville

COOLER RECEIPT FORM

Charleston



490-87222 Chain of Custody

Cooler Received/Opened On 9/12/2015 @ 1210

1. Tracking # 9110 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID 17960357

2. Temperature of rep. sample or temp blank when opened: 3.8 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front / 1 Back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (Initial) mm

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # mm

I certify that I unloaded the cooler and answered questions 7-14 (Initial) mm

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (Initial) mm

17. Were custody papers properly filled out (Ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (Initial) mm

I certify that I attached a label with the unique LIMS number to each container (Initial) mm

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...

Nashville Division
2060 Entor Capital

**2960 Foster Creighton
Nashville, TN 37204**

Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

Client Name/Account #: SBG - EEG # 2448

Address: 10178 Highway 78

City/State/Zip: Ladson, SC 29458

Project Manager: Tom McElwee email: mcelwee@ceginc.net

Telephone Number: 843.412.2087

Sampler Name: (Print) Chris Hansen

Sampler Signature:

Fax No: 843 412-2027

Project ID: Laurel Bay Housing Project

Project #:

Site State: SC

PO#: 14106

TA Quoted #:

Project #:

Compliance Monitoring?

Enforcement Action?

Yes	No
Yes	No

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Loc: 490
87222

9/24/2015

Page 16 of 17

Login Sample Receipt Checklist

Client: Small Business Group Inc.

Job Number: 490-87222-1

Login Number: 87222

List Source: TestAmerica Nashville

List Number: 1

Creator: McBride, Mike

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT A

UST Certificate of Disposal

CONTRACTOR

Small Business Group, Inc.
10179 Highway 78
Ladson, SC 29456

TEL (843) 879-0403
FAX (843) 879-0401

TANK ID & LOCATION

UST 1177Bobwhite, 1177 Bobwhite Drive, Laurel Bay Housing Area, MCAS Beaufort, S.C.

DISPOSAL LOCATION

Coastal Auto Salvage Co., Inc.
130 Laurel Bay Road
Beaufort, S.C. 29906

TYPE OF TANK

SIZE (GAL)

Steel

280

CLEANING/DISPOSAL METHOD

The tank and piping were unearthed, cut open, cleaned with a pressure washer, cut into sections, and recycled.

DISPOSAL CERTIFICATION

I certify that the above tank, piping and equipment has been properly cleaned and disposed of.

_____/_____
(Name) (Date)

Appendix C
Laboratory Analytical Reports - Groundwater

ANALYTICAL RESULTS

Project: LAUREL BAY 7/30/08
Pace Project No.: 9224584

03744

Sample: 1468 CARDINAL A		Lab ID: 9224584011	Collected: 07/30/08 16:50	Received: 08/01/08 07:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

8270 MSSV PAH by SIM SPE

Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3535

Nitrobenzene-d5 (S)	52 %		50-150	1	08/05/08 00:00	08/13/08 15:43	4165-60-0	
2-Fluorobiphenyl (S)	51 %		50-150	1	08/05/08 00:00	08/13/08 15:43	321-60-8	
Terphenyl-d14 (S)	67 %		50-150	1	08/05/08 00:00	08/13/08 15:43	1718-51-0	

8260 MSV Low Level

Analytical Method: EPA 8260

Benzene	ND ug/L		1.0	1		08/07/08 22:59	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		08/07/08 22:59	100-41-4	
Naphthalene	4.3 ug/L		1.0	1		08/07/08 22:59	91-20-3	C8
Toluene	ND ug/L		1.0	1		08/07/08 22:59	108-88-3	
m&p-Xylene	ND ug/L		2.0	1		08/07/08 22:59	1330-20-7	
o-Xylene	ND ug/L		1.0	1		08/07/08 22:59	95-47-6	
4-Bromofluorobenzene (S)	98 %		87-109	1		08/07/08 22:59	460-00-4	
Dibromofluoromethane (S)	97 %		85-115	1		08/07/08 22:59	1868-53-7	
1,2-Dichloroethane-d4 (S)	100 %		79-120	1		08/07/08 22:59	17060-07-0	
Toluene-d8 (S)	100 %		70-120	1		08/07/08 22:59	2037-26-5	

Sample: 1177 BOBWHITE D		Lab ID: 9224584012	Collected: 07/30/08 15:00	Received: 08/01/08 07:55	Matrix: Water				
13	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

8270 MSSV PAH by SIM SPE

Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3535

Acenaphthene	ND ug/L		2.0	1	08/05/08 00:00	08/13/08 16:05	83-32-9	
Acenaphthylene	ND ug/L		1.5	1	08/05/08 00:00	08/13/08 16:05	208-96-8	
Anthracene	ND ug/L		0.050	1	08/05/08 00:00	08/13/08 16:05	120-12-7	
Benzo(a)anthracene	ND ug/L		0.10	1	08/05/08 00:00	08/13/08 16:05	56-55-3	
Benzo(a)pyrene	ND ug/L		0.20	1	08/05/08 00:00	08/13/08 16:05	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.30	1	08/05/08 00:00	08/13/08 16:05	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		0.20	1	08/05/08 00:00	08/13/08 16:05	191-24-2	
Benzo(k)fluoranthene	ND ug/L		0.20	1	08/05/08 00:00	08/13/08 16:05	207-08-9	
Chrysene	ND ug/L		0.10	1	08/05/08 00:00	08/13/08 16:05	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.20	1	08/05/08 00:00	08/13/08 16:05	53-70-3	
Fluoranthene	ND ug/L		0.30	1	08/05/08 00:00	08/13/08 16:05	206-44-0	
Fluorene	ND ug/L		0.31	1	08/05/08 00:00	08/13/08 16:05	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.20	1	08/05/08 00:00	08/13/08 16:05	193-39-5	
1-Methylnaphthalene	ND ug/L		2.0	1	08/05/08 00:00	08/13/08 16:05	90-12-0	
2-Methylnaphthalene	ND ug/L		2.0	1	08/05/08 00:00	08/13/08 16:05	91-57-6	
Naphthalene	ND ug/L		1.5	1	08/05/08 00:00	08/13/08 16:05	91-20-3	
Phenanthrene	ND ug/L		0.20	1	08/05/08 00:00	08/13/08 16:05	85-01-8	
Pyrene	ND ug/L		0.10	1	08/05/08 00:00	08/13/08 16:05	129-00-0	
Nitrobenzene-d5 (S)	52 %		50-150	1	08/05/08 00:00	08/13/08 16:05	4165-60-0	
2-Fluorobiphenyl (S)	53 %		50-150	1	08/05/08 00:00	08/13/08 16:05	321-60-8	
Terphenyl-d14 (S)	75 %		50-150	1	08/05/08 00:00	08/13/08 16:05	1718-51-0	

8260 MSV Low Level

Analytical Method: EPA 8260

Benzene	ND ug/L		1.0	1		08/07/08 23:22	71-43-2	
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Date: 08/14/2008 04:21 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

03943

Project: LAUREL BAY 7/30/08

Pace Project No.: 9224584

Sample: 1177 BOBWHITE D		Lab ID: 9224584012	Collected: 07/30/08 15:00	Received: 08/01/08 07:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Ethylbenzene	ND ug/L		1.0	1		08/07/08 23:22	100-41-4	
Naphthalene	ND ug/L		2.0	1		08/07/08 23:22	91-20-3	
Toluene	ND ug/L		1.0	1		08/07/08 23:22	108-88-3	
m&p-Xylene	ND ug/L		2.0	1		08/07/08 23:22	1330-20-7	
o-Xylene	ND ug/L		1.0	1		08/07/08 23:22	95-47-6	
4-Bromofluorobenzene (S)	99 %		87-109	1		08/07/08 23:22	460-00-4	
Dibromofluoromethane (S)	97 %		85-115	1		08/07/08 23:22	1868-53-7	
1,2-Dichloroethane-d4 (S)	100 %		79-120	1		08/07/08 23:22	17060-07-0	
Toluene-d8 (S)	100 %		70-120	1		08/07/08 23:22	2037-26-5	

Sample: 256 BEECH A		Lab ID: 9224584013	Collected: 07/30/08 10:15	Received: 08/01/08 07:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM SPE		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3535						
Acenaphthene	ND ug/L		2.0	1	08/05/08 00:00	08/13/08 16:26	83-32-9	
Acenaphthylene	ND ug/L		1.5	1	08/05/08 00:00	08/13/08 16:26	208-96-8	
Anthracene	0.13 ug/L		0.050	1	08/05/08 00:00	08/13/08 16:26	120-12-7	
Benzo(a)anthracene	ND ug/L		0.10	1	08/05/08 00:00	08/13/08 16:26	56-55-3	
Benzo(a)pyrene	ND ug/L		0.20	1	08/05/08 00:00	08/13/08 16:26	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.30	1	08/05/08 00:00	08/13/08 16:26	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		0.20	1	08/05/08 00:00	08/13/08 16:26	191-24-2	
Benzo(k)fluoranthene	ND ug/L		0.20	1	08/05/08 00:00	08/13/08 16:26	207-08-9	
Chrysene	ND ug/L		0.10	1	08/05/08 00:00	08/13/08 16:26	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.20	1	08/05/08 00:00	08/13/08 16:26	53-70-3	
Fluoranthene	ND ug/L		0.30	1	08/05/08 00:00	08/13/08 16:26	206-44-0	
Fluorene	1.7 ug/L		0.31	1	08/05/08 00:00	08/13/08 16:26	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.20	1	08/05/08 00:00	08/13/08 16:26	193-39-5	
1-Methylnaphthalene	7.7 ug/L		2.0	1	08/05/08 00:00	08/13/08 16:26	90-12-0	
2-Methylnaphthalene	3.2 ug/L		2.0	1	08/05/08 00:00	08/13/08 16:26	91-57-6	
Naphthalene	3.4 ug/L		1.5	1	08/05/08 00:00	08/13/08 16:26	91-20-3	
Phenanthrene	2.3 ug/L		0.20	1	08/05/08 00:00	08/13/08 16:26	85-01-8	
Pyrene	ND ug/L		0.10	1	08/05/08 00:00	08/13/08 16:26	129-00-0	
Nitrobenzene-d5 (S)	56 %		50-150	1	08/05/08 00:00	08/13/08 16:26	4165-60-0	
2-Fluorobiphenyl (S)	61 %		50-150	1	08/05/08 00:00	08/13/08 16:26	321-60-8	
Terphenyl-d14 (S)	71 %		50-150	1	08/05/08 00:00	08/13/08 16:26	1718-51-0	

8260 MSV Low Level		Analytical Method: EPA 8260						
Benzene	ND ug/L		1.0	1		08/07/08 05:55	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		08/07/08 05:55	100-41-4	
Naphthalene	4.3 ug/L		2.0	1		08/07/08 05:55	91-20-3	
Toluene	ND ug/L		1.0	1		08/07/08 05:55	108-88-3	
m&p-Xylene	ND ug/L		2.0	1		08/07/08 05:55	1330-20-7	
o-Xylene	ND ug/L		1.0	1		08/07/08 05:55	95-47-6	
4-Bromofluorobenzene (S)	98 %		87-109	1		08/07/08 05:55	460-00-4	

Date: 08/14/2008 04:21 PM

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ANALYTICAL RESULTS

03943

Project: LAUREL BAY 7/30/08
Pace Project No.: 9224584

Sample: 1177 BOBWHITE A		Lab ID: 9224584008	Collected: 07/30/08 14:50		Received: 08/01/08 07:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM SPE		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3535						
Acenaphthene	ND ug/L		2.0	1	08/04/08 00:00	08/13/08 10:18	83-32-9	
Acenaphthylene	ND ug/L		1.5	1	08/04/08 00:00	08/13/08 10:18	208-96-8	
Anthracene	ND ug/L		0.050	1	08/04/08 00:00	08/13/08 10:18	120-12-7	
Benzo(a)anthracene	ND ug/L		0.10	1	08/04/08 00:00	08/13/08 10:18	56-55-3	
Benzo(a)pyrene	ND ug/L		0.20	1	08/04/08 00:00	08/13/08 10:18	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.30	1	08/04/08 00:00	08/13/08 10:18	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		0.20	1	08/04/08 00:00	08/13/08 10:18	191-24-2	
Benzo(k)fluoranthene	ND ug/L		0.20	1	08/04/08 00:00	08/13/08 10:18	207-08-9	
Chrysene	ND ug/L		0.10	1	08/04/08 00:00	08/13/08 10:18	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.20	1	08/04/08 00:00	08/13/08 10:18	53-70-3	
Fluoranthene	ND ug/L		0.30	1	08/04/08 00:00	08/13/08 10:18	206-44-0	
Fluorene	ND ug/L		0.31	1	08/04/08 00:00	08/13/08 10:18	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.20	1	08/04/08 00:00	08/13/08 10:18	193-39-5	
1-Methylnaphthalene	ND ug/L		2.0	1	08/04/08 00:00	08/13/08 10:18	90-12-0	
2-Methylnaphthalene	ND ug/L		2.0	1	08/04/08 00:00	08/13/08 10:18	91-57-6	
Naphthalene	ND ug/L		1.5	1	08/04/08 00:00	08/13/08 10:18	91-20-3	
Phenanthrene	0.23 ug/L		0.20	1	08/04/08 00:00	08/13/08 10:18	85-01-8	
Pyrene	ND ug/L		0.10	1	08/04/08 00:00	08/13/08 10:18	129-00-0	
Nitrobenzene-d5 (S)	54 %		50-150	1	08/04/08 00:00	08/13/08 10:18	4165-60-0	
2-Fluorobiphenyl (S)	50 %		50-150	1	08/04/08 00:00	08/13/08 10:18	321-60-8	
Terphenyl-d14 (S)	56 %		50-150	1	08/04/08 00:00	08/13/08 10:18	1718-51-0	

8260 MSV Low Level		Analytical Method: EPA 8260						
Benzene	ND ug/L		1.0	1		08/06/08 17:39	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		08/06/08 17:39	100-41-4	
Naphthalene	ND ug/L		2.0	1		08/06/08 17:39	91-20-3	
Toluene	ND ug/L		1.0	1		08/06/08 17:39	108-88-3	
m&p-Xylene	ND ug/L		2.0	1		08/06/08 17:39	1330-20-7	
o-Xylene	ND ug/L		1.0	1		08/06/08 17:39	95-47-6	
4-Bromofluorobenzene (S)	99 %		87-109	1		08/06/08 17:39	460-00-4	
Dibromofluoromethane (S)	93 %		85-115	1		08/06/08 17:39	1868-53-7	
1,2-Dichloroethane-d4 (S)	95 %		79-120	1		08/06/08 17:39	17060-07-0	
Toluene-d8 (S)	102 %		70-120	1		08/06/08 17:39	2037-26-5	

Sample: 1483 CARDINAL A		Lab ID: 9224584009	Collected: 07/30/08 15:45		Received: 08/01/08 07:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM SPE		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3535						
Acenaphthene	ND ug/L		2.0	1	08/05/08 00:00	08/13/08 14:11	83-32-9	
Acenaphthylene	ND ug/L		1.5	1	08/05/08 00:00	08/13/08 14:11	208-96-8	
Anthracene	ND ug/L		0.050	1	08/05/08 00:00	08/13/08 14:11	120-12-7	
Benzo(a)anthracene	ND ug/L		0.10	1	08/05/08 00:00	08/13/08 14:11	56-55-3	
Benzo(a)pyrene	ND ug/L		0.20	1	08/05/08 00:00	08/13/08 14:11	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.30	1	08/05/08 00:00	08/13/08 14:11	205-99-2	

Date: 08/14/2008 04:21 PM

REPORT OF LABORATORY ANALYSIS

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Volatile Organic Compounds by GC/MS

Client: AECOM - Resolution Consultants				Laboratory ID: SC11009-011			
Description: BEALB1177TW02WG20170309				Matrix: Aqueous			
Date Sampled: 03/09/2017 1700							
Date Received: 03/11/2017							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	03/15/2017 1530	PMV		37143		

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzene	71-43-2	8260B	0.80	U	1.0	0.80	0.40	ug/L	1
Ethylbenzene	100-41-4	8260B	0.80	U	1.0	0.80	0.40	ug/L	1
Naphthalene	91-20-3	8260B	0.80	U	1.0	0.80	0.40	ug/L	1
Toluene	108-88-3	8260B	0.80	U	1.0	0.80	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	0.80	U	1.0	0.80	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		105	85-114
Dibromofluoromethane		92	80-119
1,2-Dichloroethane-d4		102	81-118
Toluene-d8		92	89-112

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time Q = Surrogate failure
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria L = LCS/LCSD failure
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" S = MS/MSD failure

Semivolatile Organic Compounds by GC/MS

Client: AECOM - Resolution Consultants	Laboratory ID: SC11009-011
Description: BEALB1177TW02WG20170309	Matrix: Aqueous
Date Sampled: 03/09/2017 1700	
Date Received: 03/11/2017	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3520C	8270D	1	03/18/2017 0032	RBH	03/15/2017 1020	37108			

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzo(a)anthracene	56-55-3	8270D	0.10	U	0.20	0.10	0.040	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	0.10	U	0.20	0.10	0.040	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	0.10	U	0.20	0.10	0.040	ug/L	1
Chrysene	218-01-9	8270D	0.10	U	0.20	0.10	0.040	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	0.10	U	0.20	0.10	0.040	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Nitrobenzene-d5		60	44-120
2-Fluorobiphenyl		53	44-119
Terphenyl-d14		74	50-134

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time Q = Surrogate failure
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria L = LCS/LCSD failure
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" S = MS/MSD failure

Appendix D

Regulatory Correspondence

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C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

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16 July 2008

Beaufort Military Complex Family Housing
ATTN: Kyle Broadfoot
1510 Laurel Bay Blvd.
Beaufort, SC 29906

Re: MCAS – Laurel Bay Housing – 1177 Bobwhite Drive
Site ID # 03943
UST Closure Reports received 31 January 2008
Beaufort County

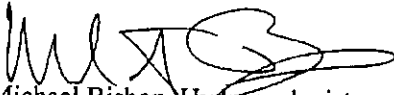
Dear Mr. Broadfoot:

The purpose of this letter is to verify a release of fuel oil at the referenced residence. According to information received by the Department, the source of the release is from past onsite use of fuel oil USTs. To date, initial activities by the facility have included tank removal and soil sampling. Based on the information contained in the closure report, a potential violation of the South Carolina Pollution Control Act has occurred in that there has been an unauthorized release of petroleum to the environment.

Additional assessment activities are required for this site. Specifically the Department requests that a groundwater sample be collected from this site. Please note, the Department approved a groundwater sampling proposal for Laurel Bay submitted by MCAS under separate cover dated 16 June 2008.

Should you have any questions, please contact me at 803-898-3553 (office phone), 803-898-2893 (fax) or bishopma@dhec.sc.gov.

Sincerely,


Michael Bishop, Hydrogeologist
Groundwater Quality Section
Bureau of Water

cc: Region 8 District EQC (via pdf)
MCAS, Commanding Officer, Attention: S-4 NREAO (William Drawdy) (via pdf)
Technical File



August 1, 2016

Commanding Officer
Attention: NREAO Mr. William A. Drawdy
United State Marine Corps Air Station
Post Office Box 55001
Beaufort, SC 29904-5001

RE: IGWA
Laurel Bay Underground Tank Assessment Reports
Dated July 2015, November 2015, March 2016

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received the Underground Storage Tanks (USTs) Assessment Reports for the addresses listed in the attachment. The regulatory authority for the investigation and cleanup of releases from these tank systems is the South Carolina Pollution Control Act (S.C. Code Ann. §48-1-10 et seq., as amended).

The Department has reviewed the referenced reports. The submitted analytical results indicate that petroleum constituents are above established Risk-Based Screening Levels and additional investigation is warranted. Specifically, the Department requests that a groundwater sampling proposal be generated to determine if there has been an impact to groundwater at these sites.

Please note that the Department's decision is based on information provided by the Marine Corps Air Station (MCAS) to date. Any information found to be contradictory to this decision may require additional action. Furthermore, the Department retains the right to request further investigation if deemed necessary.

If you have any questions, please contact me at petruslb@dhec.sc.gov or 803-898-0294.

Sincerely,

Laurel Petrus, Environmental Engineer Associate
Bureau of Land and Waste Management

Cc: Russell Berry, EQC Region 8 (via email)
Shawn Dolan, Resolution Consultants (via email)
Bryan Beck, NAVFAC MIDATLANTIC (via email)
Craig Ehde (via email)

Attachment to: Petrus to Drawdy, August 1, 2016

Subject: IGWA, Laurel Bay Underground Tank Assessment Reports

Dated July 2015, November 2015, March 2016

Draft Final Initial Groundwater Investigation Report for (7 addresses/8 tanks)

Permanent Monitoring Well Investigation recommendation	
465 Dogwood Tank 2	254 Beech Tank 2
1352 Cardinal Tank 2*	641 Dahlia Tank 2
121 Banyan	1346 Cardinal
254 Beech Tank 1	1177 Bobwhite
* IGWA well has already been installed along with 1352 Cardinal Tank 1 and a recommendation for permanent wells and groundwater monitoring was approved 2/22/16	



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

20 November 2008

Beaufort Military Complex Family Housing
ATTN: Kyle Broadfoot
1510 Laurel Bay Blvd.
Beaufort, SC 29906

Re: MCAS – Laurel Bay Housing – 1177 Bobwhite
Site ID # 03943
Groundwater Sampling Results received 6 November 2008
Beaufort County

Dear Mr. Broadfoot:

Per the Department's request, a groundwater sample was collected from the referenced site. The groundwater results were reported as non-detect. Based on the information and analytical data submitted, the Department recognizes that MCAS has adequately addressed the known environmental contamination identified on the property to date in accordance with the approved scope of work. Consequently, no further investigation is required at this time. Please note, this statement pertains only to the portion of the site addressed in the referenced report and does not apply to other areas of the site and/or any other potential regulatory violations. Further, the Department retains the right to request further investigation if deemed necessary.

Should you have any questions, please contact me at 803-896-4179 (office phone), 803-896-6245 (fax) or cookejt@dhec.sc.gov.

Sincerely,
AST Petroleum Restoration
& Site Environmental Investigations Section
Land Revitalization Division
Bureau of Land and Waste Management
SC Dept. of Health & Environmental Control

Jan T. Cooke, Hydrogeologist

B. Thomas Knight, Manager

cc: Region 8 District EQC
MCAS, Commanding Officer, Attention: S-4 NREAO (Craig Ehde),
P.O. Box 55001, Beaufort, SC 29904-5001
Technical File



July 27, 2017

Commanding Officer
Attention: NREAO Mr. William A. Drawdy
United State Marine Corps Air Station
Post Office Box 55001
Beaufort, SC 29904-5001

RE: Draft Final Initial Groundwater Investigation Report, February and March 2017

Dear Mr. Drawdy:

The South Carolina Department of Health and Environmental Control (DHEC) received groundwater data from temporary monitoring well installations in the Draft Final Groundwater Investigation Report, Laurel Bay Military Housing Area for the fifty two (52) addresses shown in the attachment. The regulatory authority for the investigation and cleanup of releases from these tank systems is the South Carolina Pollution Control Act (S.C. Code Ann. §48-1-10 et seq., as amended).

Per DHEC's request, groundwater samples were collected from the attached referenced addresses. DHEC reviewed the groundwater data and previous investigations and it agrees with the conclusions and recommendations included in the document. To further assess the impact to groundwater, permanent groundwater monitoring wells should be installed at the three (3) stated addresses. For the remaining forty nine (49) addresses, there is no indication of contamination on the property and therefore no further investigation is required at this time.

Please note that DHEC's decision is based on information provided by the Marine Corps Air Station (MCAS) to date. Any information found to be contradictory to this decision may require additional action. Furthermore, DHEC retains the right to request further investigation if deemed necessary.

If you have any questions, please contact me at petruslb@dhec.sc.gov or 803-898-0294.

Sincerely,

Laurel Petrus, Environmental Engineer Associate
Bureau of Land and Waste Management

Cc: Russell Berry, EQC Region 8
Shawn Dolan, Resolution Consultants
Bryan Beck, NAVFAC MIDLANT

Attachment to: Petrus to Drawdy Dated July 27, 2017

Draft Final Initial Groundwater Investigation Report for (52 addresses)

Permanent Well Installation recommendation (3 Addresses):

- 254 Beech Street (110 ug/L)
- 268 Beech Street (28 ug/L)
- 774 Althea Street (35 ug/L)

No Further Action recommendation (49 addresses):

- 113 Birch Drive
- 121 Banyan Drive
- 122 Banyan Drive
- 159 Cypress Street
- 221 Cypress Street
- 274 Birch Drive
- 279 Birch Drive
- 283 Birch Drive
- 328 Ash Street
- 346 Ash Street
- 359 Aspen Street
- 370 Aspen Street
- 377 Aspen Street
- 409 Elderberry Drive
- 465 Dogwood Drive
- 480 Laurel Bay Boulevard
- 486 Laurel Bay Boulevard
- 515 Laurel Bay Boulevard
- 542 Laurel Bay Boulevard
- 593 Aster Street
- 630 Dahlia Drive
- 641 Dahlia Drive
- 693 Camelia Drive
- 723 Bluebell Lane
- 860 Dolphin Street
- 873 Cobia Drive
- 883 Cobia Drive
- 905 Barracuda Drive
- 921 Barracuda Drive
- 935 Albacore Street
- 946 Albacore Street
- 1037 Iris Lane
- 1039 Iris Lane
- 1110 Iris Lane
- 1134 Iris Lane
- 1143 Iris Lane
- 1177 Bobwhite Drive
- 1202 Cardinal Lane
- 1212 Cardinal Lane
- 1222 Cardinal Lane
- 1224 Cardinal Lane
- 1226 Dove Lane
- 1236 Dove Lane
- 1245 Dove Lane
- 1247 Dove Lane
- 1274 Albatross Drive
- 1319 Albatross Drive
- 1337 Albatross Drive
- 1346 Cardinal Lane