

SUMMARY REPORT  
273 BIRCH ROAD (FORMERLY 292 BIRCH ROAD)  
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:

**CDM - AECOM**  
Multimedia Joint Venture

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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 273 Birch Road (Formerly 292 Birch Road). 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 heating oil 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, February 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*

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*Division* (SCDHEC, February 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, April 2013) and were revised again in Revision 3.0 (SCDHEC, May 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 IGWA sampling process utilizes temporary groundwater sampling points that are typically installed and sampled within the same day. The intent of the sampling point is to determine the presence or absence of the aforementioned COPCs in groundwater and identify whether former UST locations may require additional delineation of COPCs in groundwater. These sampling points are not subjected to the same installation standards as permanent monitoring wells and, as such; the data obtained from the IGWA wells can sometimes be biased high and is considered preliminary data. In order to confirm the presence of any impact to groundwater, a permanent well is installed where IGWA sampling has indicated the presence of COPCs is in excess of the SCDHEC RBSLs for groundwater. If COPCs are found to be present in the permanent well, additional permanent wells are installed to delineate the extent of impact to groundwater and a sampling program is established. Groundwater analytical results from permanent wells 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 273 Birch Road (Formerly 292 Birch Road). The sampling activities at 273 Birch Road (Formerly 292 Birch Road) comprised a soil investigation, IGWA sampling and installation and sampling of a permanent well. Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 292 Birch Road* (MCAS Beaufort, 2008) and the *SCDHEC UST Assessment Report – 292 Birch Road* (MCAS Beaufort, 2011). 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* (Pandey Environmental, 2008) and the *Initial Groundwater Investigation Report – November and December 2015*

(Resolution Consultants, 2016). The laboratory report that includes the pertinent IGWA analytical results for this site is presented in Appendix C. Details regarding the permanent well installation and sampling activities at this site are provided in the *Groundwater Assessment Report – March and April 2017* (Resolution Consultants, 2017). The laboratory report that includes the pertinent groundwater analytical results for this site is presented in Appendix D.

## 2.1 UST Removal and Soil Sampling

In June 2007 and February 2011, three 280 gallon heating oil USTs were removed from the front area at 273 Birch Road (Formerly 292 Birch Road). Tank 1 and Tank 2 were removed on June 29, 2007. Tank 3 was removed on February 16, 2011. The former UST locations are indicated on the figures of the UST Assessment Reports (Appendix B). The USTs were removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). Visual evidence (i.e., staining or sheen) of petroleum impact was recorded at the time of the UST removals for Tank 1 and Tank 2. According to the UST Assessment Reports (Appendix B), the depths to the bases of the USTs were 4'10" (Tank 1), 4'3" (Tank 2), and 4'2" (Tank 3) bgs and a single soil sample was collected for each at that depth. An additional soil sample was collected from a side wall of each of the excavations for Tank 1 and Tank 2. 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 bases of the excavations and the sides of the excavations of Tank 1 and Tank 2 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 report is included in the UST Assessment Reports presented in Appendix B. The laboratory analytical data reports includes 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, 2, and 3) 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, 2, and 3) at 273 Birch Road (Formerly 292



Birch Road) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In letters dated September 8, 2008 and July 1, 2015 regarding Tank 1 and Tank 2, and Tank 3, respectively, SCDHEC requested IGWAs be conducted at the former UST locations (Tanks 1, 2 and 3) at 273 Birch Road (Formerly 292 Birch Road) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letters are provided in Appendix E.

### 2.3 Initial Groundwater Sampling

On July 22, 2008 and November 6, 2015, temporary monitoring wells were installed at 273 Birch Road (Formerly 292 Birch Road), 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, 2 and 3). The former UST locations are indicated on 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* (Pandey Environmental, 2008) and the *Initial Groundwater Investigation Report – November and December 2015* (Resolution Consultants, 2016).

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 wells were abandoned in accordance with the South Carolina Well Standards and Regulations R.61-71.H-I (SCDHEC, 2016). Field forms are provided in the *Investigation of Ground Water at Leaking Heating Oil UST Sites* (Pandey Environmental, 2008) and the *Initial Groundwater Investigation Report – November and December 2015* (Resolution Consultants, 2016).

### 2.4 Initial Groundwater Analytical Results

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

The groundwater results collected from 273 Birch Road (Formerly 292 Birch Road) in 2008 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. SCDHEC's NFA letter is provided in Appendix E. The groundwater results collected from 273 Birch Road (Formerly 292 Birch Road) in 2015 were greater than the SCDHEC RBSLs and the site specific groundwater VISLs (Table 2), which indicated further investigation was required. In a letter dated June 8, 2016, SCDHEC requested a permanent well be installed for 273 Birch Road (Formerly 292 Birch Road) to confirm the impact to groundwater detected in the temporary well sample. SCDHEC's request letter is provided in Appendix E.

## 2.5 Permanent Well Groundwater Sampling

On March 17, 2017, a permanent monitoring well was installed at 273 Birch Road (Formerly 292 Birch Road), 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 well was placed in the same general location as the former heating oil UST (Tank 3) and the IGWA sample location. The former UST location is indicated on the figures of the UST Assessment Report (Appendix B). Further details are provided in the *Groundwater Assessment Report – March and April 2017* (Resolution Consultants, 2017).

The sampling strategy for this phase of the investigation required a one-time sampling event of the permanent monitoring well. 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. Field forms are provided in the *Groundwater Assessment Report – March and April 2017* (Resolution Consultants, 2017).

## 2.6 Permanent Well Groundwater Analytical Results

A summary of the laboratory analytical results and SCDHEC RBSLs is presented in Table 3. A copy of the laboratory analytical data report is included in Appendix D.

The groundwater results collected from 273 Birch Road (Formerly 292 Birch Road) were less than the SCDHEC RBSLs and the site specific groundwater VISLs (Table 3), which indicated that the groundwater was not impacted by COPCs associated with the former UST (Tank 3) at concentrations that present a potential risk to human health and the environment.

### 3.0 PROPERTY STATUS

Based on the analytical results for groundwater collected from the temporary monitoring well for Tank 1 and Tank 2 and the permanent monitoring well for Tank 3, SCDHEC made the determination that NFA was required for 273 Birch Road (Formerly 292 Birch Road). This NFA determination was obtained in letters dated December 17, 2008 (Tank 1 and Tank 2) and December 11, 2017 (Tank 3). SCDHEC's NFA letters are provided in Appendix E.

### 4.0 REFERENCES

Marine Corps Air Station Beaufort, 2008. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 292 Birch Road, Laurel Bay Military Housing Area*, January 2008.

Marine Corps Air Station Beaufort, 2011. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 292 Birch Road, Laurel Bay Military Housing Area*, June 2011.

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

Resolution Consultants, 2016. *Initial Groundwater Investigation Report – November and December 2015 for Laurel Bay Military Housing Area, Multiple Properties, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, April 2016.

Resolution Consultants, 2017. *Groundwater Assessment Report – March and April 2017 for Laurel Bay Military Housing Area, Multiple Properties, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, August 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  
 273 Birch Road (Formerly 292 Birch Road)  
 Laurel Bay Military Housing Area  
 Marine Corps Air Station Beaufort  
 Beaufort, South Carolina

Constituent	SCDHEC RBSLs <sup>(1)</sup>	Results Samples Collected 06/29/07 and 02/16/11				
		292 Birch Bot-01 06/29/07	292 Birch Side-02 06/29/07	292 Birch Bot-03 06/29/07	292 Birch Side-04 06/29/07	292 Birch 02/16/11
<b>Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)</b>						
Benzene	0.003	0.00119	0.000796	0.000568	0.00298	0.00210
Ethylbenzene	1.15	0.000715	ND	ND	0.000591	0.163
Naphthalene	0.036	ND	ND	ND	0.00271	0.183
Toluene	0.627	0.00468	0.00349	0.00284	0.00379	0.00388
Xylenes, Total	13.01	0.00259	0.00114	0.00161	0.00140	0.00804
<b>Semivolatile Organic Compounds Analyzed by EPA Method 8270 (mg/kg)</b>						
Benzo(a)anthracene	0.066	0.561	0.169	ND	ND	ND
Benzo(b)fluoranthene	0.066	0.407	0.130	ND	ND	ND
Benzo(k)fluoranthene	0.066	0.150	0.0595	ND	ND	ND
Chrysene	0.066	0.551	0.151	ND	ND	ND
Dibenz(a,h)anthracene	0.066	ND	ND	ND	ND	ND

Notes:

<sup>(1)</sup> South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 1.0 (SCDHEC, May 2001 and SCDHEC, February 2011).

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 - Initial Groundwater**  
**273 Birch Road (Formerly 292 Birch Road)**  
**Laurel Bay Military Housing Area**  
**Marine Corps Air Station Beaufort**  
**Beaufort, South Carolina**

Constituent	SCDHEC RBSLs <sup>(1)</sup>	Site-Specific Groundwater VISLs <sup>(2)</sup>	Results	
			Samples Collected 07/22/08 and 11/06/15	
			292 Birch A 07/22/08	TW03 11/06/15
<b>Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)</b>				
Benzene	5	16.24	ND	<b>0.28</b>
Ethylbenzene	700	45.95	ND	<b>7.8</b>
Naphthalene	25	29.33	ND	<b>26</b>
Toluene	1000	105,445	ND	ND
Xylenes, Total	10,000	2,133	ND	ND
<b>Semivolatile Organic Compounds Analyzed by EPA Method 8270D (µg/L)</b>				
Benzo(a)anthracene	10	NA	ND	ND
Benzo(b)fluoranthene	10	NA	ND	ND
Benzo(k)fluoranthene	10	NA	ND	ND
Chrysene	10	NA	ND	ND
Dibenz(a,h)anthracene	10	NA	ND	ND

**Notes:**

<sup>(1)</sup> South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 1.0 (SCDHEC, May 2001).

<sup>(2)</sup> 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  $1 \times 10^{-6}$ , 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

**Table 3**  
**Laboratory Analytical Results - Permanent Well Groundwater**  
**273 Birch Road (Formerly 292 Birch Road)**  
**Laurel Bay Military Housing Area**  
**Marine Corps Air Station Beaufort**  
**Beaufort, South Carolina**

Constituent	SCDHEC RBSLs <sup>(1)</sup>	Site-Specific Groundwater VISLs <sup>(2)</sup>	Results Sample Collected 03/23/17
<b>Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)</b>			
Benzene	5	16.24	ND
Ethylbenzene	700	45.95	<b>3.2</b>
Naphthalene	25	29.33	<b>10</b>
Toluene	1000	105,445	ND
Xylenes, Total	10,000	2,133	ND
<b>Semivolatile Organic Compounds Analyzed by EPA Method 8270D (µg/L)</b>			
Benzo(a)anthracene	10	NA	ND
Benzo(b)fluoranthene	10	NA	ND
Benzo(k)fluoranthene	10	NA	ND
Chrysene	10	NA	ND
Dibenz(a,h)anthracene	10	NA	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  $1 \times 10^{-6}$ , 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 D.

RBSL - Risk-Based Screening Level

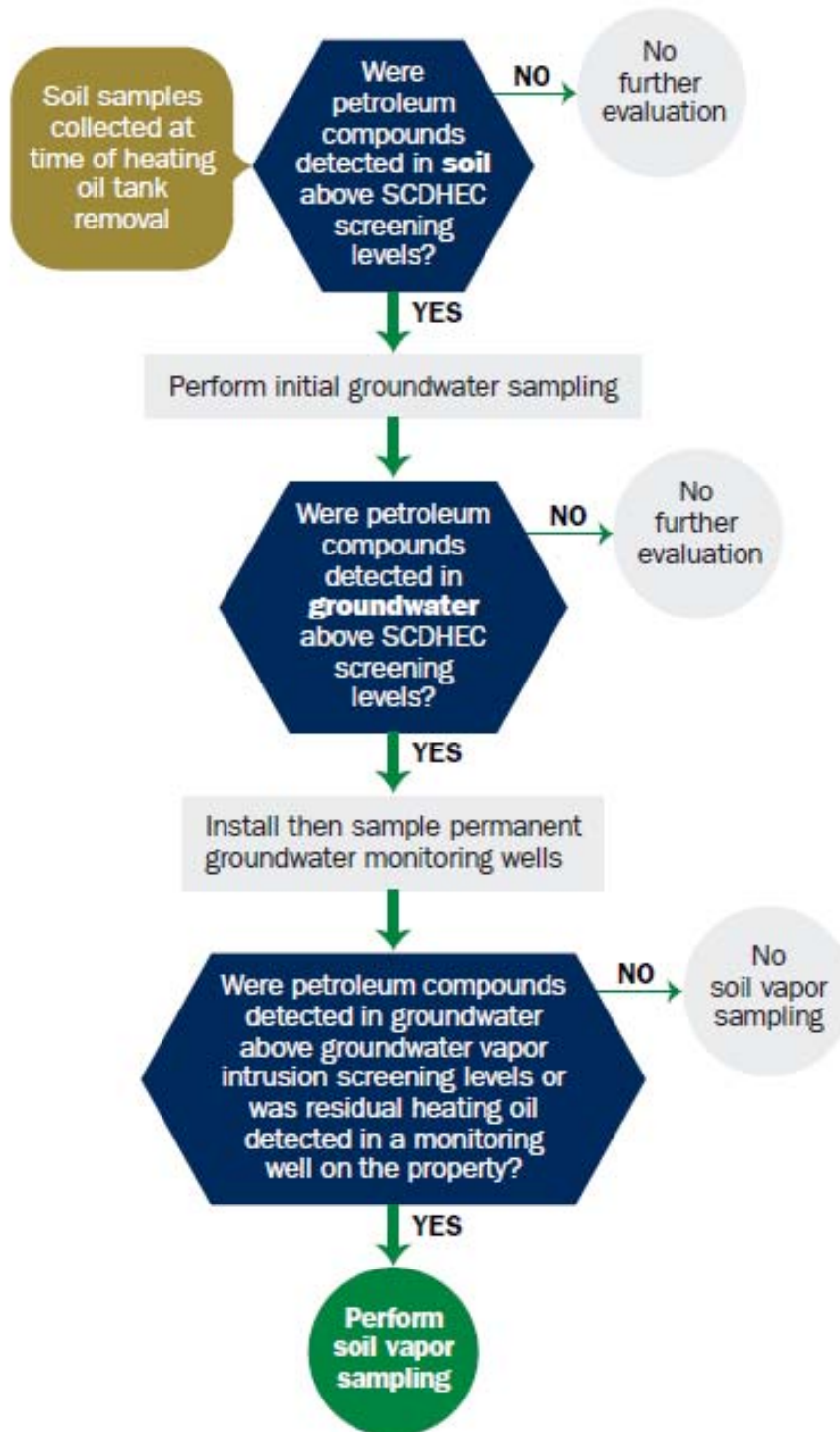
SCDHEC - South Carolina Department Of Health and Environmental Control

µg/L - micrograms per liter

VISL - Vapor Intrusion Screening Level



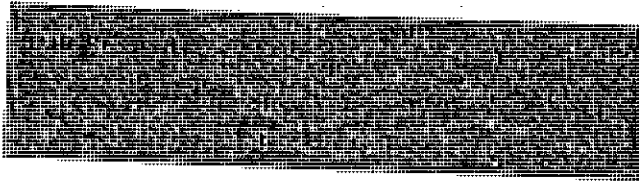
Appendix A  
Multi-Media Selection Process for LBMH



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



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		
292 Birch		
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	#2 DIESEL				
280G 350G	280G				
Steel	STEEL				
58"	51"				
N	N				
N	N				
Removed	REMOVED				
6-29-07	6-29-07				
Y	Y				
Y	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)

TREATMENT FACILITY - BROADHURST LANDFILL  
Solidification + SUBTITLE D LANDFILL

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

SMALL HOLES ON THE BOTTOM OF BOTH TANKS

## 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	STEEL				
N/A	N/A				
-0-	0				
Electra PUMP	PUMP				
Y	Y				
N	N				
N	N				

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

Mild Corrosion WAS VISIBLE on the fill pipe  
And vent pipe -

## 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	MIX	58"	6-29-07 1200	EHEVARRIA	
2	SIDE	S	↓	38"	1210	<del>A. MADONIA</del>	ND
3	BOTTOM	S	↓	51"	1220	<del>A. MADONIA</del>	ND
4	SIDE	S	↓	41"	1230		
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: 2% Sodium Bisulfate 1EA

EPA Method 8270 PolyAromatic 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

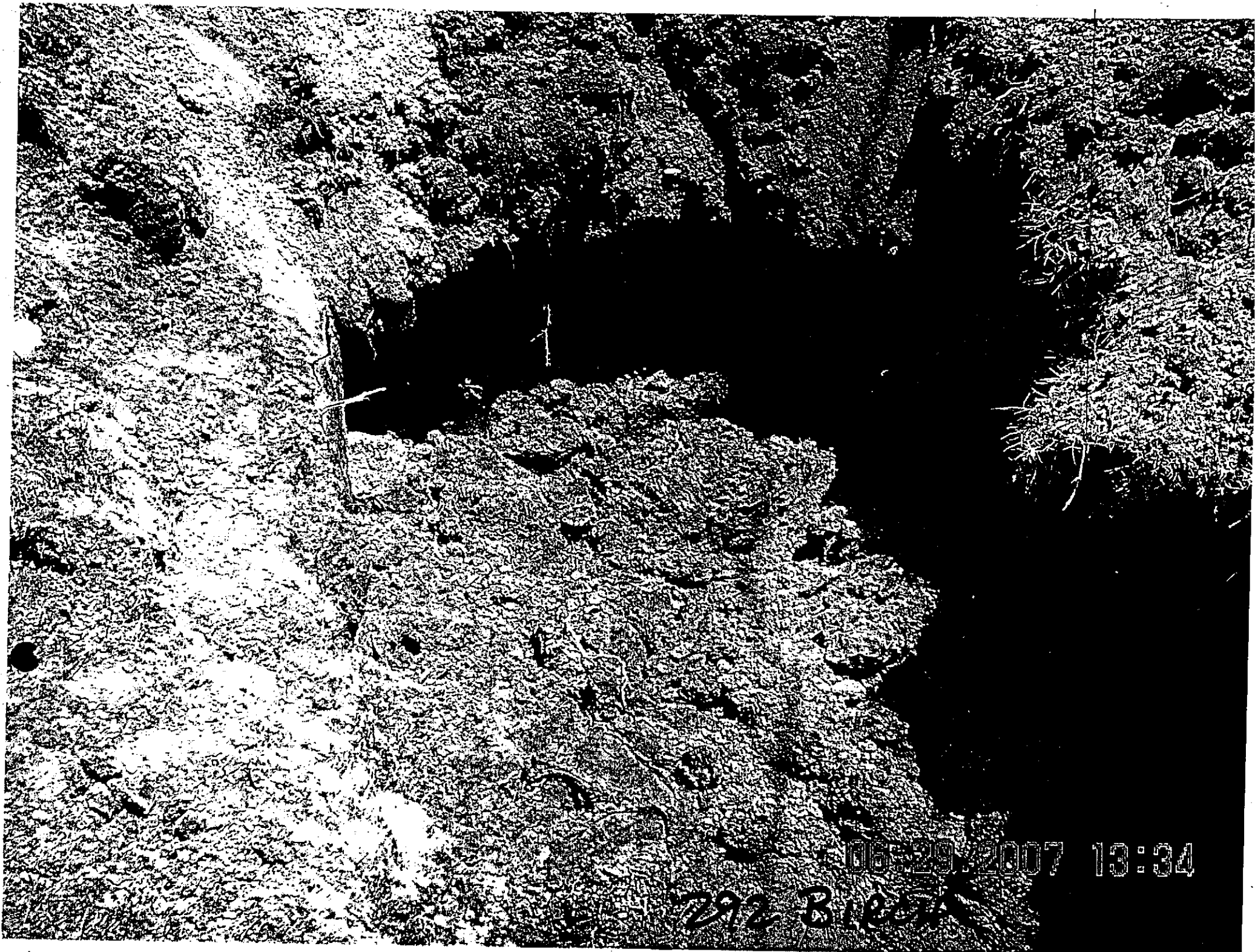
Enter the ground water analytical data for each sample for all CoC in the table below. If free product is present, indicate the measured thickness to the nearest 0.01 feet.

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				



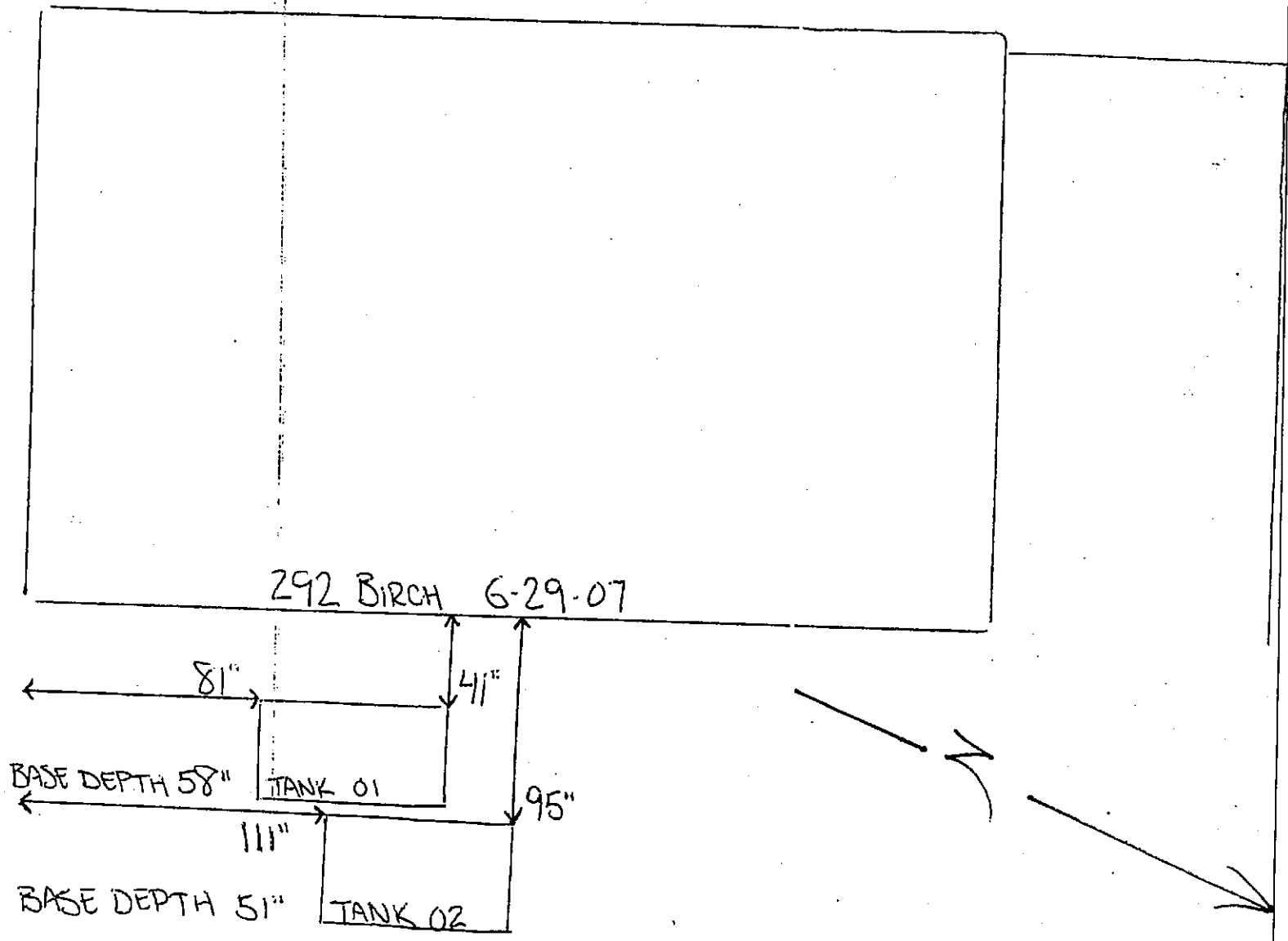
06.29.2007 18:54

29. Birch



06-29-2007 13:34

292 BIRCH



292 BIRCH 6-29-07

81"

41"

BASE DEPTH 58"

TANK 01

95"

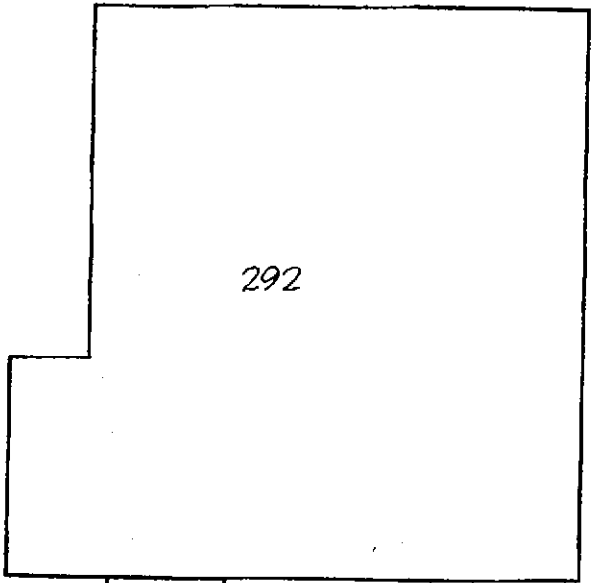
111"

BASE DEPTH 51"

TANK 02

(STRONG DIESEL ODOR WAS PRESENT @ Bottom of Both EXCAVATIONS)





A: B X TANK 1 BASE 58"

C D X TANK 2 BASE 51"

BIRCH DRIVE



TANK 1 EXCAVATION

- A-SOIL TEST SIDE SAMPLE @ 45"
- B-SOIL TEST BOTTOM SAMPLE @ 58"
- X-MILD DIESEL ODOR @ BOTTOM OF EXCAVATION

TANK 2 EXCAVATION

- C-SOIL TEST SIDE SAMPLE @ 37"
- D-SOIL TEST BOTTOM SAMPLE @ 51"
- X-MILD DIESEL ODOR @ BOTTOM OF EXCAVATION

CUSTOMER: <b>BEAUFORT MILITARY COMPLEX FAMILY HOUSING</b>	SCALE: 1/16"=1'-0"	<b>EPG INC.</b> P.O. BOX 1096 MOUNT PLEASANT, SC 29465-1096
SITE ADDRESS: <b>292 BIRCH DRIVE</b>	SUPPLIER: EPG INC.	
	DATE: 9/27/2007	

## **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: OQH0084  
 Project: LAUREL BAY  
 Project Number: EP2362

Sampled: 07/30/07-07/31/07  
 Received: 08/03/07

### LABORATORY REPORT

Sample ID: 294 BIRCH SID-04 - Lab Number: OQH0084-12 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
<b>Volatile Organic Compounds by EPA Method 8260B - Cont.</b>											
91-20-3	Naphthalene	0.778	Y,U	ug/kg dry	0.778	1.41	1	08/05/07 02:04	JWT	EPA 8260B	7H04004
108-88-3	Toluene	3.21	Y	ug/kg dry	1.22	1.41	1	08/05/07 02:04	JWT	EPA 8260B	7H04004
1330-20-7	Xylenes, total	1.38	Y,I	ug/kg dry	0.732	1.41	1	08/05/07 02:04	JWT	EPA 8260B	7H04004
Surrogate: 1,2-Dichloroethane-d4 (73-137%)		117 %									
Surrogate: 4-Bromofluorobenzene (59-118%)		93 %									
Surrogate: Dibromofluoromethane (55-145%)		106 %									
Surrogate: Toluene-d8 (80-117%)		97 %									
<b>Polynuclear Aromatic Hydrocarbons by EPA Method 8270</b>											
13-32-9	Acenaphthene	92.6	Y,U	ug/kg dry	92.6	209	1	08/12/07 16:28	REM	EPA 8270C	7H09030
108-96-8	Acenaphthylene	122	Y,U	ug/kg dry	122	209	1	08/12/07 16:28	REM	EPA 8270C	7H09030
20-12-7	Anthracene	66.6	Y,U	ug/kg dry	66.6	209	1	08/12/07 16:28	REM	EPA 8270C	7H09030
6-55-3	Benzo (a) anthracene	22.6	Y,U	ug/kg dry	22.6	209	1	08/12/07 16:28	REM	EPA 8270C	7H09030
05-99-2	Benzo (b) fluoranthene	22.0	Y,U	ug/kg dry	22.0	209	1	08/12/07 16:28	REM	EPA 8270C	7H09030
07-08-9	Benzo (k) fluoranthene	22.0	Y,U	ug/kg dry	22.0	209	1	08/12/07 16:28	REM	EPA 8270C	7H09030
91-24-2	Benzo (g,h,i) perylene	21.7	Y,U	ug/kg dry	21.7	209	1	08/12/07 16:28	REM	EPA 8270C	7H09030
0-32-8	Benzo (a) pyrene	25.7	Y,U	ug/kg dry	25.7	209	1	08/12/07 16:28	REM	EPA 8270C	7H09030
0-12-0	1-Methylnaphthalene	105	Y,U	ug/kg dry	105	209	1	08/12/07 16:28	REM	EPA 8270C	7H09030
18-01-9	Chrysene	25.0	Y,U	ug/kg dry	25.0	209	1	08/12/07 16:28	REM	EPA 8270C	7H09030
3-70-3	Dibenz (a,h) anthracene	27.4	Y,U	ug/kg dry	27.4	209	1	08/12/07 16:28	REM	EPA 8270C	7H09030
06-44-0	Fluoranthene	30.1	Y,U	ug/kg dry	30.1	209	1	08/12/07 16:28	REM	EPA 8270C	7H09030
6-73-7	Fluorene	81.8	Y,U	ug/kg dry	81.8	209	1	08/12/07 16:28	REM	EPA 8270C	7H09030
93-39-5	Indeno (1,2,3-cd) pyrene	27.1	Y,U	ug/kg dry	27.1	209	1	08/12/07 16:28	REM	EPA 8270C	7H09030
1-57-6	2-Methylnaphthalene	101	Y,I	ug/kg dry	89.1	209	1	08/12/07 16:28	REM	EPA 8270C	7H09030
1-20-3	Naphthalene	83.9	Y,U	ug/kg dry	83.9	209	1	08/12/07 16:28	REM	EPA 8270C	7H09030
5-01-8	Phenanthrene	49.3	Y,U	ug/kg dry	49.3	209	1	08/12/07 16:28	REM	EPA 8270C	7H09030
29-00-0	Pyrene	42.5	Y,U	ug/kg dry	42.5	209	1	08/12/07 16:28	REM	EPA 8270C	7H09030
Surrogate: 2-Fluorobiphenyl (24-121%)		65 %									
Surrogate: Nitrobenzene-d5 (19-111%)		65 %									
Surrogate: Terphenyl-d14 (44-171%)		102 %									

### LABORATORY REPORT

Sample ID: 292 BIRCH BOT-01 - Lab Number: OQH0084-13 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
<b>General Chemistry Parameters</b>											
NA	% Solids	79.2		%	0.100	0.100	1	08/07/07 14:10	RRP	EPA 160.3	7H07029
<b>Volatile Organic Compounds by EPA Method 8260B</b>											
71-43-2	Benzene	1.19	Y,I	ug/kg dry	0.545	1.49	1	08/05/07 02:21	JWT	EPA 8260B	7H04004
100-41-4	Ethylbenzene	0.715	Y,I	ug/kg dry	0.630	1.49	1	08/05/07 02:21	JWT	EPA 8260B	7H04004
91-20-3	Naphthalene	0.823	Y,U	ug/kg dry	0.823	1.49	1	08/05/07 02:21	JWT	EPA 8260B	7H04004
108-88-3	Toluene	4.68	Y	ug/kg dry	1.29	1.49	1	08/05/07 02:21	JWT	EPA 8260B	7H04004
1330-20-7	Xylenes, total	2.59	Y	ug/kg dry	0.774	1.49	1	08/05/07 02:21	JWT	EPA 8260B	7H04004
Surrogate: 1,2-Dichloroethane-d4 (73-137%)		121 %									

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

Work Order: OQH0084  
 Project: LAUREL BAY  
 Project Number: EP2362

Sampled: 07/30/07-07/31/07  
 Received: 08/03/07

### LABORATORY REPORT

Sample ID: 292 BIRCH BOT-01 - Lab Number: OQH0084-13 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
<b>Volatile Organic Compounds by EPA Method 8260B - Cont.</b>											
	Surrogate: 4-Bromofluorobenzene (59-118%)	93 %									
	Surrogate: Dibromofluoromethane (55-145%)	108 %									
	Surrogate: Toluene-d8 (80-117%)	97 %									
<b>Polynuclear Aromatic Hydrocarbons by EPA Method 8270</b>											
13-32-9	Acenaphthene	371	Y	ug/kg dry	93.5	211	1	08/12/07 16:50	REM	EPA 8270C	7H09030
108-96-8	Acenaphthylene	123	Y,U	ug/kg dry	123	211	1	08/12/07 16:50	REM	EPA 8270C	7H09030
20-12-7	Anthracene	482	Y	ug/kg dry	67.3	211	1	08/12/07 16:50	REM	EPA 8270C	7H09030
16-55-3	Benzo (a) anthracene	561	Y	ug/kg dry	22.8	211	1	08/12/07 16:50	REM	EPA 8270C	7H09030
105-99-2	Benzo (b) fluoranthene	407	Y	ug/kg dry	22.2	211	1	08/12/07 16:50	REM	EPA 8270C	7H09030
107-08-9	Benzo (k) fluoranthene	150	Y,I	ug/kg dry	22.2	211	1	08/12/07 16:50	REM	EPA 8270C	7H09030
91-24-2	Benzo (g,h,i) perylene	21.9	Y,U	ug/kg dry	21.9	211	1	08/12/07 16:50	REM	EPA 8270C	7H09030
10-32-8	Benzo (a) pyrene	232	Y	ug/kg dry	26.0	211	1	08/12/07 16:50	REM	EPA 8270C	7H09030
0-12-0	1-Methylnaphthalene	1500	Y	ug/kg dry	106	211	1	08/12/07 16:50	REM	EPA 8270C	7H09030
18-01-9	Chrysene	551	Y	ug/kg dry	25.2	211	1	08/12/07 16:50	REM	EPA 8270C	7H09030
3-70-3	Dibenz (a,h) anthracene	27.7	Y,U	ug/kg dry	27.7	211	1	08/12/07 16:50	REM	EPA 8270C	7H09030
06-44-0	Fluoranthene	1050	Y	ug/kg dry	30.3	211	1	08/12/07 16:50	REM	EPA 8270C	7H09030
6-73-7	Fluorene	82.6	Y,U	ug/kg dry	82.6	211	1	08/12/07 16:50	REM	EPA 8270C	7H09030
93-39-5	Indeno (1,2,3-cd) pyrene	27.3	Y,U	ug/kg dry	27.3	211	1	08/12/07 16:50	REM	EPA 8270C	7H09030
1-57-6	2-Methylnaphthalene	1590	Y	ug/kg dry	90.0	211	1	08/12/07 16:50	REM	EPA 8270C	7H09030
1-20-3	Naphthalene	208	Y,I	ug/kg dry	84.7	211	1	08/12/07 16:50	REM	EPA 8270C	7H09030
5-01-8	Phenanthrene	1480	Y	ug/kg dry	49.8	211	1	08/12/07 16:50	REM	EPA 8270C	7H09030
29-00-0	Pyrene	900	Y	ug/kg dry	42.9	211	1	08/12/07 16:50	REM	EPA 8270C	7H09030
	Surrogate: 2-Fluorobiphenyl (24-121%)	57 %									
	Surrogate: Nitrobenzene-d5 (19-111%)	60 %									
	Surrogate: Terphenyl-d14 (44-171%)	100 %									

### LABORATORY REPORT

Sample ID: 292 BIRCH SID-02 - Lab Number: OQH0084-14 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
<b>General Chemistry Parameters</b>											
A	% Solids	81.2		%	0.100	0.100	1	08/07/07 14:10	RRP	EPA 160.3	7H07029
<b>Volatile Organic Compounds by EPA Method 8260B</b>											
143-2	Benzene	0.796	Y,I	ug/kg dry	0.633	1.73	1	08/05/07 02:37	JWT	EPA 8260B	7H04004
10-41-4	Ethylbenzene	0.732	Y,U	ug/kg dry	0.732	1.73	1	08/05/07 02:37	JWT	EPA 8260B	7H04004
1-20-3	Naphthalene	0.955	Y,U	ug/kg dry	0.955	1.73	1	08/05/07 02:37	JWT	EPA 8260B	7H04004
18-88-3	Toluene	3.49	Y	ug/kg dry	1.49	1.73	1	08/05/07 02:37	JWT	EPA 8260B	7H04004
130-20-7	Xylenes, total	1.14	Y,I	ug/kg dry	0.898	1.73	1	08/05/07 02:37	JWT	EPA 8260B	7H04004
	Surrogate: 1,2-Dichloroethane-d4 (73-137%)	124 %									
	Surrogate: 4-Bromofluorobenzene (59-118%)	96 %									
	Surrogate: Dibromofluoromethane (55-145%)	107 %									
	Surrogate: Toluene-d8 (80-117%)	98 %									
<b>Polynuclear Aromatic Hydrocarbons by EPA Method 8270</b>											

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: OQH0084  
 Project: LAUREL BAY  
 Project Number: EP2362

Sampled: 07/30/07-07/31/07  
 Received: 08/03/07

### LABORATORY REPORT

Sample ID: 292 BIRCH SID-02 - Lab Number: OQH0084-14 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
<b>Polynuclear Aromatic Hydrocarbons by EPA Method 8270</b>											
13-32-9	Acenaphthene	133	Y,I	ug/kg dry	91.1	206	1	08/12/07 17:50	REM	EPA 8270C	7H09030
108-96-8	Acenaphthylene	120	Y,U	ug/kg dry	120	206	1	08/12/07 17:50	REM	EPA 8270C	7H09030
20-12-7	Anthracene	165	Y,I	ug/kg dry	65.6	206	1	08/12/07 17:50	REM	EPA 8270C	7H09030
6-55-3	Benzo (a) anthracene	169	Y,I	ug/kg dry	22.3	206	1	08/12/07 17:50	REM	EPA 8270C	7H09030
05-99-2	Benzo (b) fluoranthene	130	Y,I	ug/kg dry	21.7	206	1	08/12/07 17:50	REM	EPA 8270C	7H09030
07-08-9	Benzo (k) fluoranthene	59.5	Y,I	ug/kg dry	21.7	206	1	08/12/07 17:50	REM	EPA 8270C	7H09030
91-24-2	Benzo (g,h,i) perylene	21.3	Y,U	ug/kg dry	21.3	206	1	08/12/07 17:50	REM	EPA 8270C	7H09030
0-32-8	Benzo (a) pyrene	79.6	Y,I	ug/kg dry	25.3	206	1	08/12/07 17:50	REM	EPA 8270C	7H09030
0-12-0	1-Methylnaphthalene	296	Y	ug/kg dry	103	206	1	08/12/07 17:50	REM	EPA 8270C	7H09030
18-01-9	Chrysene	151	Y,I	ug/kg dry	24.6	206	1	08/12/07 17:50	REM	EPA 8270C	7H09030
3-70-3	Dibenz (a,h) anthracene	27.0	Y,U	ug/kg dry	27.0	206	1	08/12/07 17:50	REM	EPA 8270C	7H09030
56-44-0	Fluoranthene	401	Y	ug/kg dry	29.6	206	1	08/12/07 17:50	REM	EPA 8270C	7H09030
5-73-7	Fluorene	182	Y,I	ug/kg dry	80.5	206	1	08/12/07 17:50	REM	EPA 8270C	7H09030
93-39-5	Indeno (1,2,3-cd) pyrene	26.6	Y,U	ug/kg dry	26.6	206	1	08/12/07 17:50	REM	EPA 8270C	7H09030
1-57-6	2-Methylnaphthalene	108	Y,I	ug/kg dry	87.7	206	1	08/12/07 17:50	REM	EPA 8270C	7H09030
1-20-3	Naphthalene	82.6	Y,U	ug/kg dry	82.6	206	1	08/12/07 17:50	REM	EPA 8270C	7H09030
5-01-8	Phenanthrene	729	Y	ug/kg dry	48.5	206	1	08/12/07 17:50	REM	EPA 8270C	7H09030
29-00-0	Pyrene	354	Y	ug/kg dry	41.8	206	1	08/12/07 17:50	REM	EPA 8270C	7H09030
	surrogate: 2-Fluorobiphenyl (24-121%)	43 %									
	surrogate: Nitrobenzene-d5 (19-111%)	44 %									
	surrogate: Terphenyl-d14 (44-171%)	78 %									

### LABORATORY REPORT

Sample ID: 292 BIRCH BOT-03 - Lab Number: OQH0084-15 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
<b>General Chemistry Parameters</b>											
	% Solids	77.4		%	0.100	0.100	1	08/07/07 14:10	RRP	EPA 160.3	7H07029
<b>Volatile Organic Compounds by EPA Method 8260B</b>											
43-2	Benzene	0.568	Y,I	ug/kg dry	0.433	1.18	1	08/05/07 02:54	JWT	EPA 8260B	7H04004
100-41-4	Ethylbenzene	0.501	Y,U	ug/kg dry	0.501	1.18	1	08/05/07 02:54	JWT	EPA 8260B	7H04004
140-20-3	Naphthalene	0.654	Y,U	ug/kg dry	0.654	1.18	1	08/05/07 02:54	JWT	EPA 8260B	7H04004
108-88-3	Toluene	2.84	Y	ug/kg dry	1.02	1.18	1	08/05/07 02:54	JWT	EPA 8260B	7H04004
100-20-7	Xylenes, total	1.61	Y	ug/kg dry	0.615	1.18	1	08/05/07 02:54	JWT	EPA 8260B	7H04004
	surrogate: 1,2-Dichloroethane-d4 (73-137%)	122 %									
	surrogate: 4-Bromofluorobenzene (59-118%)	92 %									
	surrogate: Dibromofluoromethane (55-145%)	107 %									
	surrogate: Toluene-d8 (80-117%)	96 %									
<b>Polynuclear Aromatic Hydrocarbons by EPA Method 8270</b>											
13-32-9	Acenaphthene	95.6	Y,U	ug/kg dry	95.6	216	1	08/12/07 18:12	REM	EPA 8270C	7H09030
108-96-8	Acenaphthylene	126	Y,U	ug/kg dry	126	216	1	08/12/07 18:12	REM	EPA 8270C	7H09030
20-12-7	Anthracene	68.8	Y,U	ug/kg dry	68.8	216	1	08/12/07 18:12	REM	EPA 8270C	7H09030
6-55-3	Benzo (a) anthracene	23.4	Y,U	ug/kg dry	23.4	216	1	08/12/07 18:12	REM	EPA 8270C	7H09030

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: OQH0084  
 Project: LAUREL BAY  
 Project Number: EP2362

Sampled: 07/30/07-07/31/07  
 Received: 08/03/07

### LABORATORY REPORT

Sample ID: 292 BIRCH BOT-03 - Lab Number: OQH0084-15 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
<b>Polynuclear Aromatic Hydrocarbons by EPA Method 8270 - Cont.</b>											
205-99-2	Benzo (b) fluoranthene	22.7	Y,U	ug/kg dry	22.7	216	1	08/12/07 18:12	REM	EPA 8270C	7H09030
207-08-9	Benzo (k) fluoranthene	22.7	Y,U	ug/kg dry	22.7	216	1	08/12/07 18:12	REM	EPA 8270C	7H09030
191-24-2	Benzo (g,h,i) perylene	22.4	Y,U	ug/kg dry	22.4	216	1	08/12/07 18:12	REM	EPA 8270C	7H09030
50-32-8	Benzo (a) pyrene	26.6	Y,U	ug/kg dry	26.6	216	1	08/12/07 18:12	REM	EPA 8270C	7H09030
30-12-0	1-Methylnaphthalene	108	Y,U	ug/kg dry	108	216	1	08/12/07 18:12	REM	EPA 8270C	7H09030
218-01-9	Chrysene	25.8	Y,U	ug/kg dry	25.8	216	1	08/12/07 18:12	REM	EPA 8270C	7H09030
13-70-3	Dibenz (a,h) anthracene	28.3	Y,U	ug/kg dry	28.3	216	1	08/12/07 18:12	REM	EPA 8270C	7H09030
106-44-0	Fluoranthene	31.0	Y,U	ug/kg dry	31.0	216	1	08/12/07 18:12	REM	EPA 8270C	7H09030
16-73-7	Fluorene	84.5	Y,U	ug/kg dry	84.5	216	1	08/12/07 18:12	REM	EPA 8270C	7H09030
93-39-5	Indeno (1,2,3-cd) pyrene	27.9	Y,U	ug/kg dry	27.9	216	1	08/12/07 18:12	REM	EPA 8270C	7H09030
11-57-6	2-Methylnaphthalene	92.0	Y,U	ug/kg dry	92.0	216	1	08/12/07 18:12	REM	EPA 8270C	7H09030
11-20-3	Naphthalene	86.7	Y,U	ug/kg dry	86.7	216	1	08/12/07 18:12	REM	EPA 8270C	7H09030
5-01-8	Phenanthrene	50.9	Y,U	ug/kg dry	50.9	216	1	08/12/07 18:12	REM	EPA 8270C	7H09030
29-00-0	Pyrene	43.8	Y,U	ug/kg dry	43.8	216	1	08/12/07 18:12	REM	EPA 8270C	7H09030
	surrogate: 2-Fluorobiphenyl (24-121%)	73 %									
	surrogate: Nitrobenzene-d5 (19-111%)	73 %									
	surrogate: Terphenyl-d14 (44-171%)	112 %									

### LABORATORY REPORT

Sample ID: 292 BIRCH SID-04 - Lab Number: OQH0084-16 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
<b>General Chemistry Parameters</b>											
A	% Solids	71.9		%	0.100	0.100	1	08/07/07 14:10	RRP	EPA 160.3	7H07029
<b>Volatile Organic Compounds by EPA Method 8260B</b>											
1-43-2	Benzene	2.98	Y	ug/kg dry	0.492	1.34	1	08/05/07 03:11	JWT	EPA 8260B	7H04004
30-41-4	Ethylbenzene	0.591	Y,I	ug/kg dry	0.568	1.34	1	08/05/07 03:11	JWT	EPA 8260B	7H04004
1-20-3	Naphthalene	2.71	Y	ug/kg dry	0.742	1.34	1	08/05/07 03:11	JWT	EPA 8260B	7H04004
98-88-3	Toluene	3.79	Y	ug/kg dry	1.16	1.34	1	08/05/07 03:11	JWT	EPA 8260B	7H04004
130-20-7	Xylenes, total	1.40	Y	ug/kg dry	0.698	1.34	1	08/05/07 03:11	JWT	EPA 8260B	7H04004
	surrogate: 1,2-Dichloroethane-d4 (73-137%)	112 %									
	surrogate: 4-Bromofluorobenzene (59-118%)	92 %									
	surrogate: Dibromofluoromethane (55-145%)	106 %									
	surrogate: Toluene-d8 (80-117%)	97 %									
<b>Polynuclear Aromatic Hydrocarbons by EPA Method 8270</b>											
32-9	Acenaphthene	1130	Y	ug/kg dry	103	232	1	08/12/07 18:35	REM	EPA 8270C	7H09030
8-96-8	Acenaphthylene	136	Y,U	ug/kg dry	136	232	1	08/12/07 18:35	REM	EPA 8270C	7H09030
0-12-7	Anthracene	1010	Y	ug/kg dry	74.1	232	1	08/12/07 18:35	REM	EPA 8270C	7H09030
-55-3	Benzo (a) anthracene	25.2	Y,U	ug/kg dry	25.2	232	1	08/12/07 18:35	REM	EPA 8270C	7H09030
5-99-2	Benzo (b) fluoranthene	24.5	Y,U	ug/kg dry	24.5	232	1	08/12/07 18:35	REM	EPA 8270C	7H09030
7-08-9	Benzo (k) fluoranthene	24.5	Y,U	ug/kg dry	24.5	232	1	08/12/07 18:35	REM	EPA 8270C	7H09030
1-24-2	Benzo (g,h,i) perylene	24.1	Y,U	ug/kg dry	24.1	232	1	08/12/07 18:35	REM	EPA 8270C	7H09030
32-8	Benzo (a) pyrene	28.6	Y,U	ug/kg dry	28.6	232	1	08/12/07 18:35	REM	EPA 8270C	7H09030

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: OQH0084  
 Project: LAUREL BAY  
 Project Number: EP2362

Sampled: 07/30/07-07/31/07  
 Received: 08/03/07

**LABORATORY REPORT**  
 Sample ID: 292 BIRCH SID-04 - Lab Number: OQH0084-16 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
<b>Polynuclear Aromatic Hydrocarbons by EPA Method 8270 - Cont.</b>											
0-12-0	1-Methylnaphthalene	4440	Y	ug/kg dry	117	232	1	08/12/07 18:35	REM	EPA 8270C	7H09030
18-01-9	Chrysene	27.8	Y,U	ug/kg dry	27.8	232	1	08/12/07 18:35	REM	EPA 8270C	7H09030
3-70-3	Dibenz (a,h) anthracene	30.5	Y,U	ug/kg dry	30.5	232	1	08/12/07 18:35	REM	EPA 8270C	7H09030
06-44-0	Fluoranthene	63.1	Y,I	ug/kg dry	33.4	232	1	08/12/07 18:35	REM	EPA 8270C	7H09030
6-73-7	Fluorene	1650	Y	ug/kg dry	91.0	232	1	08/12/07 18:35	REM	EPA 8270C	7H09030
93-39-5	Indeno (1,2,3-cd) pyrene	30.1	Y,U	ug/kg dry	30.1	232	1	08/12/07 18:35	REM	EPA 8270C	7H09030
1-57-6	2-Methylnaphthalene	99.1	Y,U	ug/kg dry	99.1	232	1	08/12/07 18:35	REM	EPA 8270C	7H09030
1-20-3	Naphthalene	93.3	Y,U	ug/kg dry	93.3	232	1	08/12/07 18:35	REM	EPA 8270C	7H09030
5-01-8	Phenanthrene	3330	Y	ug/kg dry	54.8	232	1	08/12/07 18:35	REM	EPA 8270C	7H09030
29-00-0	Pyrene	150	Y,I	ug/kg dry	47.2	232	1	08/12/07 18:35	REM	EPA 8270C	7H09030
	surrogate: 2-Fluorobiphenyl (24-121%)	76 %									
	surrogate: Nitrobenzene d5 (19-111%)	90 %									
	surrogate: Terphenyl-d14 (44-171%)	109 %									

# Test America

ANALYTICAL TESTING CORPORATION

0 Q110084 page 1 of 2  
To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?  
Compliance Monitoring

Client Name: EPG Client #: 2411

Address: \_\_\_\_\_

City/State/Zip Code: \_\_\_\_\_

Project Manager: JOHN MATHEWEN

Telephone Number: 813-881-0467 Fax: 813-881-7766

Sampler Name: (Print Name) John Mathewen

Sampler Signature: [Signature]

Project Name: LAUREL BAY

Project #: EP 2362

Site/Location ID: \_\_\_\_\_ State: \_\_\_\_\_

Report To: \_\_\_\_\_

Invoice To: \_\_\_\_\_

Quote #: \_\_\_\_\_ PO#: \_\_\_\_\_

TAT <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (surcharges may apply)	Date Needed:	Fax Results: Y N	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Solid WW - Wastewater Specify Other	Preservation & # of Containers											Analyze For:	QC Deliverables	REMARKS			
								HNO <sub>3</sub>	HCl	NaOH	H <sub>2</sub> SO <sub>4</sub>	Methanol	None	Other (Specify)								None		
								1	1	1	1	1	1											
x 389 ACORN BOT-01	7/31/07		7/31/07	9:10	G		S						1	2	2	X	X							
x 389 ACORN SID-02	"		"	9:20	C		S						1	2	2	X	X							
x 391 ACORN BOT-01	"		"	10:10	G		S						1	2	2	X	X							
x 391 ACORN SID-02	"		"	10:15	C		S						1	2	2	X	X							
x 398 ACORN BOT-01	"		"	10:50	G		S						1	2	2	X	X							
x 398 ACORN SID-02	"		"	10:55	C		S						1	2	2	X	X							
x 398 ACORN BOT-03	"		"	11:10	G		S						1	2	2	X	X							
x 398 ACORN SID-04	"		"	11:15	C		S						1	2	2	X	X							
x 94 BIRCH BOT-01	7/31/07		7/31/07	9:30	G		S						1	2	2	X	X							
x 294 BIRCH SID-02	7/31/07		7/31/07	09:35	C		S						1	2	2	X	X							

Special Instructions:

Relinquished By: <u>[Signature]</u>	Date: <u>8/2/07</u>	Time: <u>14:00</u>	Received By: <u>[Signature]</u>	Date: <u>8/2/07</u>	Time: <u>14:00</u>
Relinquished By: <u>[Signature]</u>	Date: <u>8/2/07</u>	Time: <u>17:30</u>	Received By: <u>[Signature]</u>	Date: <u>8/3/07</u>	Time: <u>9:15</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____

LABORATORY COMMENTS:  
 Init Lab Temp: 9:3  
 Rec Lab Temp: \_\_\_\_\_  
 Custody/Seals: Y N N/A  
 Bottles Supplied by Test America: Y N  
 Method of Shipment: Fed Ex - Overnight

- 01
- 02
- 03
- 04
- 05
- 06
- 07
- 08
- 09
- 10



# Test America

ANALYTICAL TESTING CORPORATION

O Q H 0084 page 2 of 2

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

Client Name: EPG Client #: 2491  
 Address: \_\_\_\_\_  
 City/State/Zip Code: \_\_\_\_\_  
 Project Manager: JOHN MATTHEW  
 Telephone Number: 843-881-0467 Fax: 843-881-0467  
 Sampler Name: (Print Name) JOHN MATTHEW  
 Sampler Signature: [Signature]

Project Name: LAUREL BAY  
 Project #: EP2362  
 Site/Location ID: \_\_\_\_\_ State: \_\_\_\_\_  
 Report To: \_\_\_\_\_  
 Invoice To: \_\_\_\_\_  
 Quote #: \_\_\_\_\_ PO#: \_\_\_\_\_

TAT <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (surcharges may apply)	Date Needed:	Fax Results: Y N	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	Preservation & # of Containers							Analyze For:	QC Deliverables <input type="checkbox"/> None <input checked="" type="checkbox"/> Level 2 (Batch QC) <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: _____	REMARKS
							SL - Sludge GW - Groundwater WW - Wastewater Specify Other	DR - Drinking Water S - Solid	HNO <sub>3</sub>	HCl	NaOH	H <sub>2</sub> SO <sub>4</sub>	Methanol	None			

BTEX-NAPTH  
8260  
PAH 8270

11  
12  
13  
14  
15  
16

Special Instructions: \_\_\_\_\_

Relinquished By: [Signature] Date: 8/2/07 Time: 14:00 Received By: [Signature] Date: 8/1/07 Time: 14:10  
 Relinquished By: [Signature] Date: 8/2/07 Time: 17:30 Received By: Am Date: 8/3/07 Time: 7:15  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

LABORATORY COMMENTS

Init Lab Temp: 9.3  
 Rec Lab Temp: \_\_\_\_\_  
 Custody Seals: Y N NA  
 Bottles Supplied by Test America: Y N  
 Method of Shipment: FedEx to TA - Orlando

rec'd 6-23-11

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) 896-7957

**SCANNED**

**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,	South Carolina	29904-5001
City	State	Zip Code
843	228-7317	Craig Ehde
Area Code	Telephone Number	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 Identifier	
292 Birch Drive, Laurel Bay Military Housing Area	
Street Address or State Road (as applicable)	
Beaufort,	Beaufort
City	County

Attachment 2

### 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**

292Birch		
Heating oil		
280 gal		
Late 1950s		
Steel		
Mid 80s		
4'2"		
No		
No		
Removed		
2/16/2011		
Yes		
Yes		

- 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.....

M. Method of disposal for any USTs removed from the ground (attach disposal manifests)  
UST 292Birch was removed from the ground and disposed at a Subtitle "D" landfill. See Attachment "A."

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)  
UST 292Birch had been previously filled with sand by others.

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

292Birch		
Steel & Copper		
N/A		
N/A		
Suction		
Yes		
Yes		
No		
Late 1950s		

Steel vent piping for all tanks were corroded and pitted. All copper supply and return piping 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 84009001

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
292 Birch	Excav at fill end	Soil	Sandy-clay	4'2"	2/16/11 1530 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 style="text-align: center;">*Approx 638' to stormwater drainage canal</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: center;">*Sewer, water, cable, electricity &amp; fiber optic</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

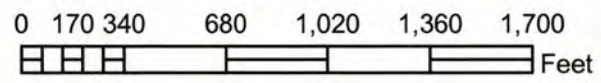
### **XIII. SITE MAP**

**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)



**292 BIRCH DR.**



**SBG-EEG, Inc.**  
 398 E. 5th North Street, Suite C  
 Summerville SC 29483-6954  
 Ph. (843) 875-1930  
 Drawn By: L. DiAsio  
 Dwg Date: MAR 2011

**FIGURE 1: LOCATION MAP**  
**292 BIRCH DRIVE**  
**LAUREL BAY, BEAUFORT SC**





STORMWATER DRAINAGE  
CANAL  $\approx$  638'

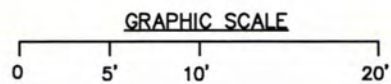


292 BIRCH DRIVE  
LAUREL BAY MILITARY HOUSING  
MCAS BEAUFORT, SC



UST 292BIRCH,  
280 GAL.

ASPHALT  
DRIVEWAY



**SBG-EEG**

398 E. 5 NORTH ST., SUITE C  
SUMMERVILLE, SC  
29483-6954

FIGURE 2 SITE MAP  
292 BIRCH DRIVE, LAUREL BAY  
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE MAR 2011

292 BIRCH DRIVE

CONCRETE  
PORCH & WALK

GRASS

EXCAVATION

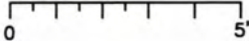
FILL END

SOIL SAMPLE  
292 BIRCH

STORMWATER DRAINAGE  
CANAL ≈ 638'



GRAPHIC SCALE



**SBG-EEG**

398 E. 5 NORTH ST., SUITE C  
SUMMERVILLE, SC  
29483-6954

FIGURE 3 UST SAMPLE LOCATIONS  
292 BIRCH DRIVE, LAUREL BAY  
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE MAR 2011





Picture 1: Location of UST 292Birch.



Picture 2: UST 292Birch excavation.

**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.

<b>CoC</b>	UST	292 Birch					
<b>Benzene</b>		0.00210 mg/					
<b>Toluene</b>		0.00388 mg/kg					
<b>Ethylbenzene</b>		0.163 mg/kg					
<b>Xylenes</b>		0.00804 mg/kg					
<b>Naphthalene</b>		0.183 mg/kg					
<b>Benzo (a) anthracene</b>		ND					
<b>Benzo (b) fluoranthene</b>		ND					
<b>Benzo (k) fluoranthene</b>		ND					
<b>Chrysene</b>		ND					
<b>Dibenz (a, h) anthracene</b>		ND					
<b>TPH (EPA 3550)</b>							

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

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



## **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)

March 04, 2011 3:50:47PM

Client: EEG - Small Business Group, Inc. (2449)  
10179 Highway 78  
Ladson, SC 29456  
Attn: Tom McElwee

Work Order: NUB3244  
Project Name: Laurel Bay Housing Project  
Project Nbr: [none]  
P/O Nbr: 1027  
Date Received: 02/19/11

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
271 Birch-1	NUB3244-01	02/14/11 16:00
271 Birch-2	NUB3244-02	02/15/11 10:45
275 Birch	NUB3244-03	02/16/11 11:45
292 Birch	NUB3244-04	02/16/11 15:30
284 Birch-1	NUB3244-05	02/17/11 11:45
284 Birch-2	NUB3244-06	02/17/11 15:00

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

South Carolina Certification Number: 84009

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.

Estimated uncertainty is available upon request.

This report has been electronically signed.

Report Approved By:



Ken A. Hayes

Senior Project Manager

Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUB3244  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 02/19/11 08:35

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NUB3244-01 (271 Birch-1 - Soil) Sampled: 02/14/11 16:00</b>										
General Chemistry Parameters										
% Dry Solids	82.9		%	0.500	0.500	1	03/03/11 13:39	SW-846	AMS	11C0411
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00101	0.00184	1	02/26/11 03:25	SW846 8260B	KxC	11B5164
Ethylbenzene	ND		mg/kg dry	0.000904	0.00184	1	02/26/11 03:25	SW846 8260B	KxC	11B5164
Naphthalene	ND		mg/kg dry	0.00157	0.00461	1	02/26/11 03:25	SW846 8260B	KxC	11B5164
Toluene	ND		mg/kg dry	0.000821	0.00184	1	02/26/11 03:25	SW846 8260B	KxC	11B5164
Xylenes, total	ND		mg/kg dry	0.00175	0.00461	1	02/26/11 03:25	SW846 8260B	KxC	11B5164
Surr: 1,2-Dichloroethane-d4 (67-138%)	89 %					1	02 26 11 03:25	SW846 8260B	KxC	11B5164
Surr: Dibromofluoromethane (75-125%)	89 %					1	02 26 11 03:25	SW846 8260B	KxC	11B5164
Surr: Toluene-d8 (76-129%)	106 %					1	02 26 11 03:25	SW846 8260B	KxC	11B5164
Surr: 4-Bromofluorobenzene (67-147%)	105 %					1	02 26 11 03:25	SW846 8260B	KxC	11B5164
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0169	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Acenaphthylene	ND		mg/kg dry	0.0241	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Anthracene	ND		mg/kg dry	0.0108	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Benzo (a) anthracene	ND		mg/kg dry	0.0133	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Benzo (a) pyrene	ND		mg/kg dry	0.00964	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Benzo (b) fluoranthene	ND		mg/kg dry	0.0458	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0108	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Benzo (k) fluoranthene	ND		mg/kg dry	0.0446	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Chrysene	ND		mg/kg dry	0.0373	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0181	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Fluoranthene	ND		mg/kg dry	0.0133	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Fluorene	ND		mg/kg dry	0.0241	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0373	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Naphthalene	ND		mg/kg dry	0.0169	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Phenanthrene	ND		mg/kg dry	0.0120	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Pyrene	ND		mg/kg dry	0.0277	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
1-Methylnaphthalene	ND		mg/kg dry	0.0145	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
2-Methylnaphthalene	ND		mg/kg dry	0.0253	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Surr: Terphenyl-d14 (18-120%)	63 %					1	02 25 11 21:35	SW846 8270D	JLS	11B4858
Surr: 2-Fluorobiphenyl (14-120%)	55 %					1	02 25 11 21:35	SW846 8270D	JLS	11B4858
Surr: Nitrobenzene-d5 (17-120%)	51 %					1	02 25 11 21:35	SW846 8270D	JLS	11B4858

Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUB3244  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 02/19/11 08:35

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NUB3244-02 (271 Birch-2 - Soil) Sampled: 02/15/11 10:45</b>										
General Chemistry Parameters										
% Dry Solids	83.0		%	0.500	0.500	1	03/03/11 13:39	SW-846	AMS	11C0411
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00114	0.00207	1	03/01/11 00:42	SW846 8260B	KxC	11B5954
Ethylbenzene	ND		mg/kg dry	0.00102	0.00207	1	03/01/11 00:42	SW846 8260B	KxC	11B5954
Naphthalene	ND		mg/kg dry	0.00176	0.00518	1	03/01/11 00:42	SW846 8260B	KxC	11B5954
Toluene	ND		mg/kg dry	0.000923	0.00207	1	03/01/11 00:42	SW846 8260B	KxC	11B5954
Xylenes, total	ND		mg/kg dry	0.00197	0.00518	1	03/01/11 00:42	SW846 8260B	KxC	11B5954
Surr: 1,2-Dichloroethane-d4 (67-138%)	102 %					1	03/01/11 00:42	SW846 8260B	KxC	11B5954
Surr: Dibromofluoromethane (75-125%)	99 %					1	03/01/11 00:42	SW846 8260B	KxC	11B5954
Surr: Toluene-d8 (76-129%)	106 %					1	03/01/11 00:42	SW846 8260B	KxC	11B5954
Surr: 4-Bromofluorobenzene (67-147%)	101 %					1	03/01/11 00:42	SW846 8260B	KxC	11B5954
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0164	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Acenaphthylene	ND		mg/kg dry	0.0234	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Anthracene	ND		mg/kg dry	0.0105	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Benzo (a) anthracene	ND		mg/kg dry	0.0128	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Benzo (a) pyrene	ND		mg/kg dry	0.00934	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Benzo (b) fluoranthene	ND		mg/kg dry	0.0444	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0105	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Benzo (k) fluoranthene	ND		mg/kg dry	0.0432	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Chrysene	ND		mg/kg dry	0.0362	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0175	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Fluoranthene	ND		mg/kg dry	0.0128	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Fluorene	ND		mg/kg dry	0.0234	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0362	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Naphthalene	ND		mg/kg dry	0.0164	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Phenanthrene	ND		mg/kg dry	0.0117	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Pyrene	ND		mg/kg dry	0.0269	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
1-Methylnaphthalene	ND		mg/kg dry	0.0140	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
2-Methylnaphthalene	ND		mg/kg dry	0.0245	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Surr: Terphenyl-d14 (18-120%)	66 %					1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Surr: 2-Fluorobiphenyl (14-120%)	62 %					1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Surr: Nitrobenzene-d5 (17-120%)	59 %					1	02/25/11 21:57	SW846 8270D	JLS	11B4858

Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUB3244  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 02/19/11 08:35

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NUB3244-03 (275 Birch - Soil) Sampled: 02/16/11 11:45</b>										
General Chemistry Parameters										
% Dry Solids	74.0		%	0.500	0.500	1	03/03/11 13:39	SW-846	AMS	11C0411
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00133	0.00241	1	02/26/11 04:26	SW846 8260B	KxC	11B5164
Ethylbenzene	ND		mg/kg dry	0.00118	0.00241	1	02/26/11 04:26	SW846 8260B	KxC	11B5164
Naphthalene	0.0174		mg/kg dry	0.00205	0.00603	1	02/26/11 04:26	SW846 8260B	KxC	11B5164
Toluene	ND		mg/kg dry	0.00107	0.00241	1	02/26/11 04:26	SW846 8260B	KxC	11B5164
Xylenes, total	0.00268	J	mg/kg dry	0.00229	0.00603	1	02/26/11 04:26	SW846 8260B	KxC	11B5164
Surr: 1,2-Dichloroethane-d4 (67-138%)	92 %					1	02/26/11 04:26	SW846 8260B	KxC	11B5164
Surr: Dibromofluoromethane (75-125%)	93 %					1	02/26/11 04:26	SW846 8260B	KxC	11B5164
Surr: Toluene-d8 (76-129%)	105 %					1	02/26/11 04:26	SW846 8260B	KxC	11B5164
Surr: 4-Bromofluorobenzene (67-147%)	103 %					1	02/26/11 04:26	SW846 8260B	KxC	11B5164
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0189	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Acenaphthylene	ND		mg/kg dry	0.0270	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Anthracene	0.234		mg/kg dry	0.0121	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Benzo (a) anthracene	1.07		mg/kg dry	0.0148	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Benzo (a) pyrene	0.472		mg/kg dry	0.0108	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Benzo (b) fluoranthene	0.629		mg/kg dry	0.0513	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Benzo (g,h,i) perylene	0.225		mg/kg dry	0.0121	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Benzo (k) fluoranthene	0.418		mg/kg dry	0.0499	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Chrysene	0.704		mg/kg dry	0.0418	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Dibenz (a,h) anthracene	0.0594	J	mg/kg dry	0.0202	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Fluoranthene	1.98		mg/kg dry	0.0148	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Fluorene	0.0864	J	mg/kg dry	0.0270	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Indeno (1,2,3-cd) pyrene	0.165		mg/kg dry	0.0418	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Naphthalene	ND		mg/kg dry	0.0189	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Phenanthrene	1.18		mg/kg dry	0.0135	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Pyrene	1.76		mg/kg dry	0.0310	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
1-Methylnaphthalene	ND		mg/kg dry	0.0162	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
2-Methylnaphthalene	ND		mg/kg dry	0.0283	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Surr: Terphenyl-d14 (18-120%)	54 %					1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Surr: 2-Fluorobiphenyl (14-120%)	54 %					1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Surr: Nitrobenzene-d5 (17-120%)	51 %					1	02/25/11 22:20	SW846 8270D	JLS	11B4858

Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUB3244  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 02/19/11 08:35

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NUB3244-04 (292 Birch - Soil) Sampled: 02/16/11 15:30</b>										
General Chemistry Parameters										
% Dry Solids	73.4		%	0.500	0.500	1	03/03/11 13:39	SW-846	AMS	11C0411
Volatile Organic Compounds by EPA Method 8260B										
Benzene	0.00210	J	mg/kg dry	0.00121	0.00219	1	03/01/11 01:12	SW846 8260B	KxC	11B5954
Ethylbenzene	0.163		mg/kg dry	0.00107	0.00219	1	03/01/11 01:12	SW846 8260B	KxC	11B5954
Naphthalene	0.183		mg/kg dry	0.00186	0.00548	1	03/01/11 01:12	SW846 8260B	KxC	11B5954
Toluene	0.00388		mg/kg dry	0.000976	0.00219	1	03/01/11 01:12	SW846 8260B	KxC	11B5954
Xylenes, total	0.00804		mg/kg dry	0.00208	0.00548	1	03/01/11 01:12	SW846 8260B	KxC	11B5954
Surr: 1,2-Dichloroethane-d4 (67-138%)	107 %					1	03/01/11 01:12	SW846 8260B	KxC	11B5954
Surr: Dibromofluoromethane (75-125%)	100 %					1	03/01/11 01:12	SW846 8260B	KxC	11B5954
Surr: Toluene-d8 (76-129%)	124 %					1	03/01/11 01:12	SW846 8260B	KxC	11B5954
Surr: 4-Bromofluorobenzene (67-147%)	139 %					1	03/01/11 01:12	SW846 8260B	KxC	11B5954
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0185	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Acenaphthylene	ND		mg/kg dry	0.0265	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Anthracene	0.168		mg/kg dry	0.0119	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Benzo (a) anthracene	ND		mg/kg dry	0.0146	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Benzo (a) pyrene	ND		mg/kg dry	0.0106	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Benzo (b) fluoranthene	ND		mg/kg dry	0.0503	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0119	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Benzo (k) fluoranthene	ND		mg/kg dry	0.0490	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Chrysene	ND		mg/kg dry	0.0411	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0199	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Fluoranthene	ND		mg/kg dry	0.0146	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Fluorene	ND		mg/kg dry	0.0265	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0411	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Naphthalene	0.187		mg/kg dry	0.0185	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Phenanthrene	0.170		mg/kg dry	0.0132	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Pyrene	0.0570	J	mg/kg dry	0.0305	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
1-Methylnaphthalene	0.494		mg/kg dry	0.0159	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
2-Methylnaphthalene	0.373		mg/kg dry	0.0278	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Surr: Terphenyl-d14 (18-120%)	65 %					1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Surr: 2-Fluorobiphenyl (14-120%)	57 %					1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Surr: Nitrobenzene-d5 (17-120%)	54 %					1	02/25/11 22:42	SW846 8270D	JLS	11B4858

Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUB3244  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 02/19/11 08:35

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NUB3244-05 (284 Birch-1 - Soil) Sampled: 02/17/11 11:45</b>										
General Chemistry Parameters										
% Dry Solids	83.2		%	0.500	0.500	1	03/03/11 13:39	SW-846	AMS	11C0411
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00104	0.00190	1	02/26/11 05:27	SW846 8260B	KxC	11B5164
Ethylbenzene	0.00327		mg/kg dry	0.000930	0.00190	1	02/26/11 05:27	SW846 8260B	KxC	11B5164
Naphthalene	0.00944		mg/kg dry	0.00161	0.00475	1	02/26/11 05:27	SW846 8260B	KxC	11B5164
Toluene	ND		mg/kg dry	0.000845	0.00190	1	02/26/11 05:27	SW846 8260B	KxC	11B5164
Xylenes, total	ND		mg/kg dry	0.00180	0.00475	1	02/26/11 05:27	SW846 8260B	KxC	11B5164
Surr: 1,2-Dichloroethane-d4 (67-138%)	90 %					1	02/26/11 05:27	SW846 8260B	KxC	11B5164
Surr: Dibromofluoromethane (75-125%)	92 %					1	02/26/11 05:27	SW846 8260B	KxC	11B5164
Surr: Toluene-d8 (76-129%)	112 %					1	02/26/11 05:27	SW846 8260B	KxC	11B5164
Surr: 4-Bromofluorobenzene (67-147%)	126 %					1	02/26/11 05:27	SW846 8260B	KxC	11B5164
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0166	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Acenaphthylene	ND		mg/kg dry	0.0237	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Anthracene	0.0674	J	mg/kg dry	0.0106	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Benzo (a) anthracene	0.118		mg/kg dry	0.0130	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Benzo (a) pyrene	0.0422	J	mg/kg dry	0.00946	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Benzo (b) fluoranthene	0.0564	J	mg/kg dry	0.0449	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0106	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Benzo (k) fluoranthene	0.0442	J	mg/kg dry	0.0438	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Chrysene	0.119		mg/kg dry	0.0367	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0177	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Fluoranthene	0.310		mg/kg dry	0.0130	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Fluorene	0.0911		mg/kg dry	0.0237	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0367	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Naphthalene	ND		mg/kg dry	0.0166	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Phenanthrene	0.361		mg/kg dry	0.0118	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Pyrene	0.250		mg/kg dry	0.0272	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
1-Methylnaphthalene	ND		mg/kg dry	0.0142	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
2-Methylnaphthalene	0.130		mg/kg dry	0.0248	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Surr: Terphenyl-d14 (18-120%)	62 %					1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Surr: 2-Fluorobiphenyl (14-120%)	61 %					1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Surr: Nitrobenzene-d5 (17-120%)	58 %					1	02/25/11 23:04	SW846 8270D	JLS	11B4858

Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUB3244  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 02/19/11 08:35

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NUB3244-06 (284 Birch-2 - Soil) Sampled: 02/17/11 15:00</b>										
General Chemistry Parameters										
% Dry Solids	85.0		%	0.500	0.500	1	03/03/11 13:39	SW-846	AMS	11C0411
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.000969	0.00176	1	03/01/11 01:43	SW846 8260B	KxC	11B5954
Ethylbenzene	0.00174	J	mg/kg dry	0.000863	0.00176	1	03/01/11 01:43	SW846 8260B	KxC	11B5954
Naphthalene	0.00513		mg/kg dry	0.00150	0.00440	1	03/01/11 01:43	SW846 8260B	KxC	11B5954
Toluene	ND		mg/kg dry	0.000784	0.00176	1	03/01/11 01:43	SW846 8260B	KxC	11B5954
Xylenes, total	ND		mg/kg dry	0.00167	0.00440	1	03/01/11 01:43	SW846 8260B	KxC	11B5954
Surr: 1,2-Dichloroethane-d4 (67-138%)	96 %					1	03-01-11 01:43	SW846 8260B	KxC	11B5954
Surr: Dibromofluoromethane (75-125%)	94 %					1	03-01-11 01:43	SW846 8260B	KxC	11B5954
Surr: Toluene-d8 (76-129%)	111 %					1	03-01-11 01:43	SW846 8260B	KxC	11B5954
Surr: 4-Bromofluorobenzene (67-147%)	120 %					1	03-01-11 01:43	SW846 8260B	KxC	11B5954
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0162	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Acenaphthylene	ND		mg/kg dry	0.0231	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Anthracene	ND		mg/kg dry	0.0104	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Benzo (a) anthracene	ND		mg/kg dry	0.0127	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Benzo (a) pyrene	ND		mg/kg dry	0.00924	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Benzo (b) fluoranthene	ND		mg/kg dry	0.0439	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0104	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Benzo (k) fluoranthene	ND		mg/kg dry	0.0427	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Chrysene	ND		mg/kg dry	0.0358	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0173	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Fluoranthene	ND		mg/kg dry	0.0127	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Fluorene	ND		mg/kg dry	0.0231	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0358	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Naphthalene	ND		mg/kg dry	0.0162	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Phenanthrene	ND		mg/kg dry	0.0115	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Pyrene	ND		mg/kg dry	0.0266	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
1-Methylnaphthalene	ND		mg/kg dry	0.0139	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
2-Methylnaphthalene	ND		mg/kg dry	0.0242	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Surr: Terphenyl-d14 (18-120%)	63 %					1	02-25-11 23:26	SW846 8270D	JLS	11B4858
Surr: 2-Fluorobiphenyl (14-120%)	56 %					1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Surr: Nitrobenzene-d5 (17-120%)	57 %					1	02-25-11 23:26	SW846 8270D	JLS	11B4858



Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUB3244  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 02/19/11 08:35

### SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extract Vol	Date	Analyst	Extraction Method
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>							
SW846 8270D	11B4858	NUB3244-01	30.04	1.00	02/24/11 12:30	CAG	EPA 3550C
SW846 8270D	11B4858	NUB3244-02	30.94	1.00	02/24/11 12:30	CAG	EPA 3550C
SW846 8270D	11B4858	NUB3244-03	30.05	1.00	02/24/11 12:30	CAG	EPA 3550C
SW846 8270D	11B4858	NUB3244-04	30.84	1.00	02/24/11 12:30	CAG	EPA 3550C
SW846 8270D	11B4858	NUB3244-05	30.48	1.00	02/24/11 12:30	CAG	EPA 3550C
SW846 8270D	11B4858	NUB3244-06	30.57	1.00	02/24/11 12:30	CAG	EPA 3550C
<b>Volatile Organic Compounds by EPA Method 8260B</b>							
SW846 8260B	11B5164	NUB3244-01	6.54	5.00	02/14/11 16:00	CHH	EPA 5035
SW846 8260B	11B5164	NUB3244-02	5.66	5.00	02/15/11 10:45	CHH	EPA 5035
SW846 8260B	11B5954	NUB3244-02RE1	5.81	5.00	02/15/11 10:45	CHH	EPA 5035
SW846 8260B	11B5164	NUB3244-03	5.61	5.00	02/16/11 11:45	CHH	EPA 5035
SW846 8260B	11B5164	NUB3244-04	6.83	5.00	02/16/11 15:30	CHH	EPA 5035
SW846 8260B	11B5954	NUB3244-04RE1	6.21	5.00	02/16/11 15:30	CHH	EPA 5035
SW846 8260B	11B5164	NUB3244-05	6.33	5.00	02/17/11 11:45	CHH	EPA 5035
SW846 8260B	11B5164	NUB3244-06	6.33	5.00	02/17/11 15:00	CHH	EPA 5035
SW846 8260B	11B5954	NUB3244-06RE1	6.68	5.00	02/17/11 15:00	CHH	EPA 5035

Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUB3244  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 02/19/11 08:35

**PROJECT QUALITY CONTROL DATA**  
**Blank**

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
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**Volatile Organic Compounds by EPA Method 8260B**

**11B5164-BLK1**

Benzene	<0.00110		mg/kg wet	11B5164	11B5164-BLK1	02/25/11 22:50
Ethylbenzene	<0.000980		mg/kg wet	11B5164	11B5164-BLK1	02/25/11 22:50
Naphthalene	<0.00170		mg/kg wet	11B5164	11B5164-BLK1	02/25/11 22:50
Toluene	<0.000890		mg/kg wet	11B5164	11B5164-BLK1	02/25/11 22:50
Xylenes, total	<0.00190		mg/kg wet	11B5164	11B5164-BLK1	02/25/11 22:50
Surrogate: 1,2-Dichloroethane-d4	101%			11B5164	11B5164-BLK1	02/25/11 22:50
Surrogate: Dibromofluoromethane	96%			11B5164	11B5164-BLK1	02/25/11 22:50
Surrogate: Toluene-d8	106%			11B5164	11B5164-BLK1	02/25/11 22:50
Surrogate: 4-Bromofluorobenzene	104%			11B5164	11B5164-BLK1	02/25/11 22:50

**11B5954-BLK1**

Benzene	<0.00110		mg/kg wet	11B5954	11B5954-BLK1	02/28/11 23:41
Ethylbenzene	<0.000980		mg/kg wet	11B5954	11B5954-BLK1	02/28/11 23:41
Naphthalene	<0.00170		mg/kg wet	11B5954	11B5954-BLK1	02/28/11 23:41
Toluene	<0.000890		mg/kg wet	11B5954	11B5954-BLK1	02/28/11 23:41
Xylenes, total	<0.00190		mg/kg wet	11B5954	11B5954-BLK1	02/28/11 23:41
Surrogate: 1,2-Dichloroethane-d4	105%			11B5954	11B5954-BLK1	02/28/11 23:41
Surrogate: Dibromofluoromethane	100%			11B5954	11B5954-BLK1	02/28/11 23:41
Surrogate: Toluene-d8	105%			11B5954	11B5954-BLK1	02/28/11 23:41
Surrogate: 4-Bromofluorobenzene	104%			11B5954	11B5954-BLK1	02/28/11 23:41

**11B5954-BLK2**

Benzene	<0.0550		mg/kg wet	11B5954	11B5954-BLK2	03/01/11 00:11
Ethylbenzene	<0.0490		mg/kg wet	11B5954	11B5954-BLK2	03/01/11 00:11
Naphthalene	<0.0850		mg/kg wet	11B5954	11B5954-BLK2	03/01/11 00:11
Toluene	<0.0445		mg/kg wet	11B5954	11B5954-BLK2	03/01/11 00:11
Xylenes, total	<0.0950		mg/kg wet	11B5954	11B5954-BLK2	03/01/11 00:11
Surrogate: 1,2-Dichloroethane-d4	92%			11B5954	11B5954-BLK2	03/01/11 00:11
Surrogate: Dibromofluoromethane	95%			11B5954	11B5954-BLK2	03/01/11 00:11
Surrogate: Toluene-d8	110%			11B5954	11B5954-BLK2	03/01/11 00:11
Surrogate: 4-Bromofluorobenzene	104%			11B5954	11B5954-BLK2	03/01/11 00:11

**Polyaromatic Hydrocarbons by EPA 8270D**

**11B4858-BLK1**

Acenaphthene	<0.0140		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Acenaphthylene	<0.0200		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Anthracene	<0.00900		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Benzo (a) anthracene	<0.0110		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Benzo (a) pyrene	<0.00800		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Benzo (b) fluoranthene	<0.0380		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Benzo (g,h,i) perylene	<0.00900		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Benzo (k) fluoranthene	<0.0370		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06

Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUB3244  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 02/19/11 08:35

**PROJECT QUALITY CONTROL DATA**  
**Blank - Cont.**

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>						
<b>11B4858-BLK1</b>						
Chrysene	<0.0310		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Dibenz (a,h) anthracene	<0.0150		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Fluoranthene	<0.0110		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Fluorene	<0.0200		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Indeno (1,2,3-cd) pyrene	<0.0310		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Naphthalene	<0.0140		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Phenanthrene	<0.0100		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Pyrene	<0.0230		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
1-Methylnaphthalene	<0.0120		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
2-Methylnaphthalene	<0.0210		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Surrogate: Terphenyl-d14	67%			11B4858	11B4858-BLK1	02/25/11 20:06
Surrogate: 2-Fluorobiphenyl	65%			11B4858	11B4858-BLK1	02/25/11 20:06
Surrogate: Nitrobenzene-d5	63%			11B4858	11B4858-BLK1	02/25/11 20:06

Client EEG - Small Business Group, Inc. (2449)  
10179 Highway 78  
Ladson, SC 29456  
Attn Tom McElwee

Work Order: NUB3244  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 02/19/11 08:35

### PROJECT QUALITY CONTROL DATA

#### Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
<b>General Chemistry Parameters</b>										
<b>11C0411-DUP1</b>										
% Dry Solids	53.7	49.6		%	8	20	11C0411	NUB3035-05		03/03/11 13:39

Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUB3244  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 02/19/11 08:35

**PROJECT QUALITY CONTROL DATA**  
**LCS**

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
<b>Volatile Organic Compounds by EPA Method 8260B</b>								
<b>11B5164-BS1</b>								
Benzene	50.0	46.5		ug/kg	93%	78 - 126	11B5164	02/25/11 21:47
Ethylbenzene	50.0	48.3		ug/kg	97%	79 - 130	11B5164	02/25/11 21:47
Naphthalene	50.0	47.5		ug/kg	95%	72 - 150	11B5164	02/25/11 21:47
Toluene	50.0	47.4		ug/kg	95%	76 - 126	11B5164	02/25/11 21:47
Xylenes, total	150	145		ug/kg	97%	80 - 130	11B5164	02/25/11 21:47
Surrogate: 1,2-Dichloroethane-d4	50.0	53.8			108%	67 - 138	11B5164	02/25/11 21:47
Surrogate: Dibromofluoromethane	50.0	49.3			99%	75 - 125	11B5164	02/25/11 21:47
Surrogate: Toluene-d8	50.0	51.5			103%	76 - 129	11B5164	02/25/11 21:47
Surrogate: 4-Bromofluorobenzene	50.0	52.0			104%	67 - 147	11B5164	02/25/11 21:47
<b>11B5954-BS1</b>								
Benzene	50.0	50.5		ug/kg	101%	78 - 126	11B5954	02/28/11 22:40
Ethylbenzene	50.0	54.6		ug/kg	109%	79 - 130	11B5954	02/28/11 22:40
Naphthalene	50.0	52.2		ug/kg	104%	72 - 150	11B5954	02/28/11 22:40
Toluene	50.0	52.6		ug/kg	105%	76 - 126	11B5954	02/28/11 22:40
Xylenes, total	150	165		ug/kg	110%	80 - 130	11B5954	02/28/11 22:40
Surrogate: 1,2-Dichloroethane-d4	50.0	55.5			111%	67 - 138	11B5954	02/28/11 22:40
Surrogate: Dibromofluoromethane	50.0	49.3			99%	75 - 125	11B5954	02/28/11 22:40
Surrogate: Toluene-d8	50.0	52.8			106%	76 - 129	11B5954	02/28/11 22:40
Surrogate: 4-Bromofluorobenzene	50.0	51.9			104%	67 - 147	11B5954	02/28/11 22:40
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>								
<b>11B4858-BS1</b>								
Acenaphthene	1.67	1.19		mg/kg wet	71%	49 - 120	11B4858	02/25/11 20:29
Acenaphthylene	1.67	1.21		mg/kg wet	72%	52 - 120	11B4858	02/25/11 20:29
Anthracene	1.67	1.32		mg/kg wet	79%	58 - 120	11B4858	02/25/11 20:29
Benzo (a) anthracene	1.67	1.26		mg/kg wet	75%	57 - 120	11B4858	02/25/11 20:29
Benzo (a) pyrene	1.67	1.27		mg/kg wet	76%	55 - 120	11B4858	02/25/11 20:29
Benzo (b) fluoranthene	1.67	1.30		mg/kg wet	78%	51 - 123	11B4858	02/25/11 20:29
Benzo (g,h,i) perylene	1.67	1.27		mg/kg wet	76%	49 - 121	11B4858	02/25/11 20:29
Benzo (k) fluoranthene	1.67	1.23		mg/kg wet	74%	42 - 129	11B4858	02/25/11 20:29
Chrysene	1.67	1.27		mg/kg wet	76%	55 - 120	11B4858	02/25/11 20:29
Dibenz (a,h) anthracene	1.67	1.27		mg/kg wet	76%	50 - 123	11B4858	02/25/11 20:29
Fluoranthene	1.67	1.27		mg/kg wet	76%	58 - 120	11B4858	02/25/11 20:29
Fluorene	1.67	1.24		mg/kg wet	75%	54 - 120	11B4858	02/25/11 20:29
Indeno (1,2,3-cd) pyrene	1.67	1.25		mg/kg wet	75%	50 - 122	11B4858	02/25/11 20:29
Naphthalene	1.67	1.10		mg/kg wet	66%	28 - 120	11B4858	02/25/11 20:29
Phenanthrene	1.67	1.31		mg/kg wet	78%	56 - 120	11B4858	02/25/11 20:29
Pyrene	1.67	1.32		mg/kg wet	79%	56 - 120	11B4858	02/25/11 20:29
1-Methylnaphthalene	1.67	0.986		mg/kg wet	59%	36 - 120	11B4858	02/25/11 20:29
2-Methylnaphthalene	1.67	1.10		mg/kg wet	66%	36 - 120	11B4858	02/25/11 20:29

Client EEG - Small Business Group, Inc. (2449)  
10179 Highway 78  
Ladson, SC 29456  
Attn Tom McElwee

Work Order: NUB3244  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 02/19/11 08:35

**PROJECT QUALITY CONTROL DATA**  
**LCS - Cont.**

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>								
<b>11B4858-BS1</b>								
Surrogate: Terphenyl-d14	1.67	1.11			66%	18 - 120	11B4858	02/25/11 20:29
Surrogate: 2-Fluorobiphenyl	1.67	1.10			66%	14 - 120	11B4858	02/25/11 20:29
Surrogate: Nitrobenzene-d5	1.67	0.973			58%	17 - 120	11B4858	02/25/11 20:29

Client EEG - Small Business Group, Inc. (2449)  
10179 Highway 78  
Ladson, SC 29456  
Attn Tom McElwee

Work Order: NUB3244  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 02/19/11 08:35

**PROJECT QUALITY CONTROL DATA**  
**Matrix Spike**

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
<b>Volatile Organic Compounds by EPA Method 8260B</b>										
<b>11B5164-MS1</b>										
Benzene	ND	0.0415		mg/kg dry	0.0488	85%	42 - 141	11B5164	NUB3432-07	02/26/11 06:29
Ethylbenzene	ND	0.0441		mg/kg dry	0.0488	90%	21 - 165	11B5164	NUB3432-07	02/26/11 06:29
Naphthalene	ND	0.0110		mg/kg dry	0.0488	23%	10 - 160	11B5164	NUB3432-07	02/26/11 06:29
Toluene	ND	0.0456		mg/kg dry	0.0488	93%	45 - 145	11B5164	NUB3432-07	02/26/11 06:29
Xylenes, total	ND	0.126		mg/kg dry	0.146	86%	31 - 159	11B5164	NUB3432-07	02/26/11 06:29
Surrogate: 1,2-Dichloroethane-d4		49.3		ug/kg	50.0	99%	67 - 138	11B5164	NUB3432-07	02/26/11 06:29
Surrogate: Dibromofluoromethane		47.6		ug/kg	50.0	95%	75 - 125	11B5164	NUB3432-07	02/26/11 06:29
Surrogate: Toluene-d8		56.2		ug/kg	50.0	112%	76 - 129	11B5164	NUB3432-07	02/26/11 06:29
Surrogate: 4-Bromofluorobenzene		59.8		ug/kg	50.0	120%	67 - 147	11B5164	NUB3432-07	02/26/11 06:29
<b>11B5954-MS1</b>										
Benzene	ND	0.0415		mg/kg dry	0.0580	72%	42 - 141	11B5954	NUB3481-01	03/01/11 20:41
Ethylbenzene	ND	0.0488		mg/kg dry	0.0580	84%	21 - 165	11B5954	NUB3481-01	03/01/11 20:41
Naphthalene	0.00209	0.0353		mg/kg dry	0.0580	57%	10 - 160	11B5954	NUB3481-01	03/01/11 20:41
Toluene	ND	0.0479		mg/kg dry	0.0580	83%	45 - 145	11B5954	NUB3481-01	03/01/11 20:41
Xylenes, total	ND	0.149		mg/kg dry	0.174	86%	31 - 159	11B5954	NUB3481-01	03/01/11 20:41
Surrogate: 1,2-Dichloroethane-d4		44.5		ug/kg	50.0	89%	67 - 138	11B5954	NUB3481-01	03/01/11 20:41
Surrogate: Dibromofluoromethane		45.4		ug/kg	50.0	91%	75 - 125	11B5954	NUB3481-01	03/01/11 20:41
Surrogate: Toluene-d8		54.9		ug/kg	50.0	110%	76 - 129	11B5954	NUB3481-01	03/01/11 20:41
Surrogate: 4-Bromofluorobenzene		51.9		ug/kg	50.0	104%	67 - 147	11B5954	NUB3481-01	03/01/11 20:41
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>										
<b>11B4858-MS1</b>										
Acenaphthene	ND	1.26		mg/kg dry	1.95	65%	42 - 120	11B4858	NUB3244-01	02/25/11 20:51
Acenaphthylene	ND	1.26		mg/kg dry	1.95	65%	32 - 120	11B4858	NUB3244-01	02/25/11 20:51
Anthracene	ND	1.38		mg/kg dry	1.95	71%	10 - 200	11B4858	NUB3244-01	02/25/11 20:51
Benzo (a) anthracene	ND	1.36		mg/kg dry	1.95	70%	41 - 120	11B4858	NUB3244-01	02/25/11 20:51
Benzo (a) pyrene	ND	1.36		mg/kg dry	1.95	69%	33 - 121	11B4858	NUB3244-01	02/25/11 20:51
Benzo (b) fluoranthene	ND	1.34		mg/kg dry	1.95	68%	26 - 137	11B4858	NUB3244-01	02/25/11 20:51
Benzo (g,h,i) perylene	ND	1.36		mg/kg dry	1.95	70%	21 - 124	11B4858	NUB3244-01	02/25/11 20:51
Benzo (k) fluoranthene	ND	1.39		mg/kg dry	1.95	71%	14 - 140	11B4858	NUB3244-01	02/25/11 20:51
Chrysene	ND	1.36		mg/kg dry	1.95	70%	28 - 123	11B4858	NUB3244-01	02/25/11 20:51
Dibenz (a,h) anthracene	ND	1.37		mg/kg dry	1.95	70%	25 - 127	11B4858	NUB3244-01	02/25/11 20:51
Fluoranthene	ND	1.36		mg/kg dry	1.95	70%	38 - 120	11B4858	NUB3244-01	02/25/11 20:51
Fluorene	ND	1.33		mg/kg dry	1.95	68%	41 - 120	11B4858	NUB3244-01	02/25/11 20:51
Indeno (1,2,3-cd) pyrene	ND	1.36		mg/kg dry	1.95	69%	25 - 123	11B4858	NUB3244-01	02/25/11 20:51
Naphthalene	ND	1.17		mg/kg dry	1.95	60%	25 - 120	11B4858	NUB3244-01	02/25/11 20:51
Phenanthrene	ND	1.40		mg/kg dry	1.95	72%	37 - 120	11B4858	NUB3244-01	02/25/11 20:51

Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUB3244  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 02/19/11 08:35

**PROJECT QUALITY CONTROL DATA**  
**Matrix Spike - Cont.**

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>										
<b>11B4858-MS1</b>										
Pyrene	ND	1.42		mg/kg dry	1.95	73%	29 - 125	11B4858	NUB3244-01	02/25/11 20:51
1-Methylnaphthalene	ND	1.05		mg/kg dry	1.95	54%	19 - 120	11B4858	NUB3244-01	02/25/11 20:51
2-Methylnaphthalene	ND	1.15		mg/kg dry	1.95	59%	11 - 120	11B4858	NUB3244-01	02/25/11 20:51
Surrogate: Terphenyl-d14		1.18		mg/kg dry	1.95	60%	18 - 120	11B4858	NUB3244-01	02/25/11 20:51
Surrogate: 2-Fluorobiphenyl		1.12		mg/kg dry	1.95	57%	14 - 120	11B4858	NUB3244-01	02/25/11 20:51
Surrogate: Nitrobenzene-d5		1.03		mg/kg dry	1.95	53%	17 - 120	11B4858	NUB3244-01	02/25/11 20:51



Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUB3244  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 02/19/11 08:35

**PROJECT QUALITY CONTROL DATA**  
**Matrix Spike Dup**

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
<b>Volatile Organic Compounds by EPA Method 8260B</b>												
<b>11B5164-MSD1</b>												
Benzene	ND	0.0472		mg/kg dry	0.0538	88%	42 - 141	13	50	11B5164	NUB3432-07	02/26/11 06:59
Ethylbenzene	ND	0.0500		mg/kg dry	0.0538	93%	21 - 165	12	50	11B5164	NUB3432-07	02/26/11 06:59
Naphthalene	ND	0.0119		mg/kg dry	0.0538	22%	10 - 160	8	50	11B5164	NUB3432-07	02/26/11 06:59
Toluene	ND	0.0533		mg/kg dry	0.0538	99%	45 - 145	16	50	11B5164	NUB3432-07	02/26/11 06:59
Xylenes, total	ND	0.143		mg/kg dry	0.161	88%	31 - 159	12	50	11B5164	NUB3432-07	02/26/11 06:59
Surrogate: 1,2-Dichloroethane-d4		42.0		ug/kg	50.0	84%	67 - 138			11B5164	NUB3432-07	02/26/11 06:59
Surrogate: Dibromofluoromethane		44.5		ug/kg	50.0	89%	75 - 125			11B5164	NUB3432-07	02/26/11 06:59
Surrogate: Toluene-d8		59.6		ug/kg	50.0	119%	76 - 129			11B5164	NUB3432-07	02/26/11 06:59
Surrogate: 4-Bromofluorobenzene		64.7		ug/kg	50.0	129%	67 - 147			11B5164	NUB3432-07	02/26/11 06:59
<b>11B5954-MSD1</b>												
Benzene	ND	0.0344		mg/kg dry	0.0532	65%	42 - 141	19	50	11B5954	NUB3481-01	03/01/11 21:11
Ethylbenzene	ND	0.0376		mg/kg dry	0.0532	71%	21 - 165	26	50	11B5954	NUB3481-01	03/01/11 21:11
Naphthalene	0.00209	0.0262		mg/kg dry	0.0532	45%	10 - 160	30	50	11B5954	NUB3481-01	03/01/11 21:11
Toluene	ND	0.0377		mg/kg dry	0.0532	71%	45 - 145	24	50	11B5954	NUB3481-01	03/01/11 21:11
Xylenes, total	ND	0.114		mg/kg dry	0.160	71%	31 - 159	27	50	11B5954	NUB3481-01	03/01/11 21:11
Surrogate: 1,2-Dichloroethane-d4		46.5		ug/kg	50.0	93%	67 - 138			11B5954	NUB3481-01	03/01/11 21:11
Surrogate: Dibromofluoromethane		47.8		ug/kg	50.0	96%	75 - 125			11B5954	NUB3481-01	03/01/11 21:11
Surrogate: Toluene-d8		52.6		ug/kg	50.0	105%	76 - 129			11B5954	NUB3481-01	03/01/11 21:11
Surrogate: 4-Bromofluorobenzene		53.1		ug/kg	50.0	106%	67 - 147			11B5954	NUB3481-01	03/01/11 21:11
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>												
<b>11B4858-MSD1</b>												
Acenaphthene	ND	1.24		mg/kg dry	2.00	62%	42 - 120	2	40	11B4858	NUB3244-01	02/25/11 21:13
Acenaphthylene	ND	1.26		mg/kg dry	2.00	63%	32 - 120	0.6	30	11B4858	NUB3244-01	02/25/11 21:13
Anthracene	ND	1.38		mg/kg dry	2.00	69%	10 - 200	0.02	50	11B4858	NUB3244-01	02/25/11 21:13
Benzo (a) anthracene	ND	1.35		mg/kg dry	2.00	67%	41 - 120	1	30	11B4858	NUB3244-01	02/25/11 21:13
Benzo (a) pyrene	ND	1.32		mg/kg dry	2.00	66%	33 - 121	3	33	11B4858	NUB3244-01	02/25/11 21:13
Benzo (b) fluoranthene	ND	1.43		mg/kg dry	2.00	72%	26 - 137	7	42	11B4858	NUB3244-01	02/25/11 21:13
Benzo (g,h,i) perylene	ND	1.34		mg/kg dry	2.00	67%	21 - 124	1	32	11B4858	NUB3244-01	02/25/11 21:13
Benzo (k) fluoranthene	ND	1.22		mg/kg dry	2.00	61%	14 - 140	13	39	11B4858	NUB3244-01	02/25/11 21:13
Chrysene	ND	1.36		mg/kg dry	2.00	68%	28 - 123	0.5	34	11B4858	NUB3244-01	02/25/11 21:13
Dibenz (a,h) anthracene	ND	1.33		mg/kg dry	2.00	67%	25 - 127	3	31	11B4858	NUB3244-01	02/25/11 21:13
Fluoranthene	ND	1.34		mg/kg dry	2.00	67%	38 - 120	1	35	11B4858	NUB3244-01	02/25/11 21:13
Fluorene	ND	1.31		mg/kg dry	2.00	65%	41 - 120	2	37	11B4858	NUB3244-01	02/25/11 21:13
Indeno (1,2,3-cd) pyrene	ND	1.32		mg/kg dry	2.00	66%	25 - 123	3	32	11B4858	NUB3244-01	02/25/11 21:13
Naphthalene	ND	1.18		mg/kg dry	2.00	59%	25 - 120	0.9	42	11B4858	NUB3244-01	02/25/11 21:13
Phenanthrene	ND	1.39		mg/kg dry	2.00	70%	37 - 120	0.4	32	11B4858	NUB3244-01	02/25/11 21:13
Pyrene	ND	1.41		mg/kg dry	2.00	70%	29 - 125	1	40	11B4858	NUB3244-01	02/25/11 21:13
1-Methylnaphthalene	ND	1.06		mg/kg dry	2.00	53%	19 - 120	0.6	45	11B4858	NUB3244-01	02/25/11 21:13
2-Methylnaphthalene	ND	1.16		mg/kg dry	2.00	58%	11 - 120	0.9	50	11B4858	NUB3244-01	02/25/11 21:13

Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUB3244  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 02/19/11 08:35

**PROJECT QUALITY CONTROL DATA**  
**Matrix Spike Dup - Cont.**

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD Limit	Batch	Sample Duplicated	Analyzed Date/Time
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>											
<b>11B4858-MSD1</b>											
<i>Surrogate: Terphenyl-d14</i>		1.18		mg/kg dry	2.00	59%	18 - 120		11B4858	NUB3244-01	02/25/11 21:13
<i>Surrogate: 2-Fluorobiphenyl</i>		1.13		mg/kg dry	2.00	56%	14 - 120		11B4858	NUB3244-01	02/25/11 21:13
<i>Surrogate: Nitrobenzene-d5</i>		0.995		mg/kg dry	2.00	50%	17 - 120		11B4858	NUB3244-01	02/25/11 21:13

Client EEG - Small Business Group, Inc. (2449)  
10179 Highway 78  
Ladson, SC 29456  
Attn Tom McElwee

Work Order: NUB3244  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 02/19/11 08:35

### CERTIFICATION SUMMARY

#### TestAmerica Nashville

Method	Matrix	AIHA	Nelac	South Carolina
SW846 8260B	Soil	N/A	X	X
SW846 8270D	Soil		X	X
SW-846	Soil			

Client EEG - Small Business Group, Inc. (2449)  
10179 Highway 78  
Ladson, SC 29456  
Attn Tom McElwee

Work Order: NUB3244  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 02/19/11 08:35

### DATA QUALIFIERS AND DEFINITIONS

- J** Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
- ND** Not detected at the reporting limit (or method detection limit if shown)

### METHOD MODIFICATION NOTES



ATTACHMENT A





# NON-HAZARDOUS MANIFEST

<b>NON-HAZARDOUS MANIFEST</b>	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1	
3. Generator's Mailing Address: MCAS, BEAUFORT LAUREL BAY HOUSING BEAUFORT, SC 29907	4. Generator's Phone 843-228-6461	Generator's Site Address (If different than mailing):	A. Manifest Number <b>WMNA</b> 00316807	
			B. State Generator's ID	
5. Transporter 1 Company Name EEG, INC.	6. US EPA ID Number	C. State Transporter's ID		
7. Transporter 2 Company Name	8. US EPA ID Number	D. Transporter's Phone      843-879-0411		
9. Designated Facility Name and Site Address HICKORY HILL LANDFILL 2621 LOW COUNTRY ROAD RIDGELAND, SC 29936	10. US EPA ID Number	E. State Transporter's ID		
		F. Transporter's Phone		
11. Description of Waste Materials	12. Containers	13. Total Quantity	14. Unit Wt./Vol.	
		No.	Type	I. Misc. Comments
a. HEATING OIL TANKS FILLED WITH SAND  WM Profile # 102655SC		204	10.97	
b.  WM Profile #				
c.  WM Profile #				
d.  WM Profile #				
J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			
15. Special Handling Instructions and Additional Information UST's from: 1) 271 Beech-2 ✓ 2) 257 Beech-2 ✓ 3) 256 Beech ✓ 4) 292 Birch ✓ 5) 284 Birch-2 ✓ 6) 224 Cypress ✓				
Purchase Order #	EMERGENCY CONTACT / PHONE NO.:			
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.				
Printed Name Charles H. Herron	Signature "On behalf of" Charles H. Herron	Month 02	Day 28	
		Year 11		
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name James Baldwin	Signature James Baldwin	Month 3	Day 2	
		Year 11		
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	
		Year		
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
Printed Name Toni Co Field	Signature Toni Co Field	Month 3	Day 2	
		Year 11		

GENERATOR

TRANSPORTER

FACILITY

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY  
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY  
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Appendix C  
Laboratory Analytical Report - Initial Groundwater





Pace Analytical Services, Inc.  
 2225 Riverside Dr.  
 Asheville, NC 28804  
 (828)254-7176

Pace Analytical Services, Inc.  
 9800 Kinsey Ave. Suite 100  
 Huntersville, NC 28078  
 (704)875-9092

**ANALYTICAL RESULTS**

Project: LAUREL BAY MILITARY HOUSING  
 Pace Project No.: 9224083

Sample: 290 BIRCH B Lab ID: 9224083009 Collected: 07/22/08 16:10 Received: 07/24/08 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM SPE</b> Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3535								
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	07/28/08 00:00	07/30/08 06:13	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.20	1	07/28/08 00:00	07/30/08 06:13	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/28/08 00:00	07/30/08 06:13	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.20	1	07/28/08 00:00	07/30/08 06:13	53-70-3	
Fluoranthene	ND	ug/L	0.30	1	07/28/08 00:00	07/30/08 06:13	206-44-0	
Fluorene	ND	ug/L	0.31	1	07/28/08 00:00	07/30/08 06:13	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.20	1	07/28/08 00:00	07/30/08 06:13	193-39-5	
1-Methylnaphthalene	ND	ug/L	2.0	1	07/28/08 00:00	07/30/08 06:13	90-12-0	
2-Methylnaphthalene	ND	ug/L	2.0	1	07/28/08 00:00	07/30/08 06:13	91-57-6	
Naphthalene	ND	ug/L	1.5	1	07/28/08 00:00	07/30/08 06:13	91-20-3	
Phenanthrene	ND	ug/L	0.20	1	07/28/08 00:00	07/30/08 06:13	85-01-8	
Pyrene	ND	ug/L	0.10	1	07/28/08 00:00	07/30/08 06:13	129-00-0	
Nitrobenzene-d5 (S)	45 %		50-150	1	07/28/08 00:00	07/30/08 06:13	4165-60-0	1g
2-Fluorobiphenyl (S)	71 %		50-150	1	07/28/08 00:00	07/30/08 06:13	321-60-8	
Terphenyl-d14 (S)	74 %		50-150	1	07/28/08 00:00	07/30/08 06:13	1718-51-0	

<b>8260 MSV Low Level</b> Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	1		07/29/08 16:16	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		07/29/08 16:16	100-41-4	
Naphthalene	ND	ug/L	1.0	1		07/29/08 16:16	91-20-3	
Toluene	ND	ug/L	1.0	1		07/29/08 16:16	108-88-3	
m&p-Xylene	ND	ug/L	2.0	1		07/29/08 16:16	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		07/29/08 16:16	95-47-6	
4-Bromofluorobenzene (S)	96 %		87-109	1		07/29/08 16:16	460-00-4	
Dibromofluoromethane (S)	102 %		85-115	1		07/29/08 16:16	1868-53-7	
1,2-Dichloroethane-d4 (S)	104 %		79-120	1		07/29/08 16:16	17060-07-0	
Toluene-d8 (S)	100 %		70-120	1		07/29/08 16:16	2037-26-5	

Sample: 292 BIRCH A Lab ID: 9224083010 Collected: 07/22/08 16:30 Received: 07/24/08 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM SPE</b> Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3535								
Acenaphthene	ND	ug/L	2.0	1	07/28/08 00:00	07/30/08 06:40	83-32-9	
Acenaphthylene	ND	ug/L	1.5	1	07/28/08 00:00	07/30/08 06:40	208-96-8	
Anthracene	ND	ug/L	0.050	1	07/28/08 00:00	07/30/08 06:40	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/28/08 00:00	07/30/08 06:40	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.20	1	07/28/08 00:00	07/30/08 06:40	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.30	1	07/28/08 00:00	07/30/08 06:40	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	07/28/08 00:00	07/30/08 06:40	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.20	1	07/28/08 00:00	07/30/08 06:40	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/28/08 00:00	07/30/08 06:40	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.20	1	07/28/08 00:00	07/30/08 06:40	53-70-3	
Fluoranthene	ND	ug/L	0.30	1	07/28/08 00:00	07/30/08 06:40	206-44-0	
Fluorene	ND	ug/L	0.31	1	07/28/08 00:00	07/30/08 06:40	86-73-7	

Date: 07/30/2008 03:09 PM

**REPORT OF LABORATORY ANALYSIS**

Page 11 of 16

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Pace Analytical Services, Inc.  
 2225 Riverside Dr.  
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 (828)254-7176

Pace Analytical Services, Inc.  
 9800 Kinsey Ave. Suite 100  
 Huntersville, NC 28078  
 (704)875-9092

### ANALYTICAL RESULTS

Project: LAUREL BAY MILITARY HOUSING  
 Pace Project No.: 9224083

Sample: 292 BIRCH A      Lab ID: 9224083010      Collected: 07/22/08 16:30      Received: 07/24/08 12:45      Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM SPE</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3535						
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.20	1	07/28/08 00:00	07/30/08 06:40	193-39-5	
1-Methylnaphthalene	ND	ug/L	2.0	1	07/28/08 00:00	07/30/08 06:40	90-12-0	
2-Methylnaphthalene	ND	ug/L	2.0	1	07/28/08 00:00	07/30/08 06:40	91-57-6	
Naphthalene	ND	ug/L	1.5	1	07/28/08 00:00	07/30/08 06:40	91-20-3	
Phenanthrene	ND	ug/L	0.20	1	07/28/08 00:00	07/30/08 06:40	85-01-8	
Pyrene	ND	ug/L	0.10	1	07/28/08 00:00	07/30/08 06:40	129-00-0	
Nitrobenzene-d5 (S)	54 %		50-150	1	07/28/08 00:00	07/30/08 06:40	4165-60-0	
2-Fluorobiphenyl (S)	72 %		50-150	1	07/28/08 00:00	07/30/08 06:40	321-60-8	
Terphenyl-d14 (S)	78 %		50-150	1	07/28/08 00:00	07/30/08 06:40	1718-51-0	
<b>8260 MSV Low Level</b>		Analytical Method: EPA 8260						
Benzene	ND	ug/L	1.0	1		07/29/08 16:40	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		07/29/08 16:40	100-41-4	
Naphthalene	ND	ug/L	1.0	1		07/29/08 16:40	91-20-3	
Toluene	ND	ug/L	1.0	1		07/29/08 16:40	108-88-3	
m&p-Xylene	ND	ug/L	2.0	1		07/29/08 16:40	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		07/29/08 16:40	95-47-6	
4-Bromofluorobenzene (S)	95 %		87-109	1		07/29/08 16:40	460-00-4	
Dibromofluoromethane (S)	102 %		85-115	1		07/29/08 16:40	1868-53-7	
1,2-Dichloroethane-d4 (S)	107 %		79-120	1		07/29/08 16:40	17060-07-0	
Toluene-d8 (S)	99 %		70-120	1		07/29/08 16:40	2037-26-5	

Date: 07/30/2008 03:09 PM

### REPORT OF LABORATORY ANALYSIS

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# Volatile Organic Compounds by GC/MS

Client: <b>AECOM - Resolution Consultants</b>	Laboratory ID: <b>QK05015-015</b>
Description: <b>BEALB292TW03WG20151106</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>11/06/2015 1145</b>	
Date Received: <b>11/06/2015</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/11/2015 1612	ALL		89321

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
<b>Benzene</b>	<b>71-43-2</b>	<b>8260B</b>	<b>0.28</b>	<b>J</b>	<b>5.0</b>	0.45	<b>0.21</b>	<b>ug/L</b>	<b>1</b>
<b>Ethylbenzene</b>	<b>100-41-4</b>	<b>8260B</b>	<b>7.8</b>		<b>5.0</b>	0.51	<b>0.21</b>	<b>ug/L</b>	<b>1</b>
<b>Naphthalene</b>	<b>91-20-3</b>	<b>8260B</b>	<b>26</b>		<b>5.0</b>	0.96	<b>0.14</b>	<b>ug/L</b>	<b>1</b>
Toluene	108-88-3	8260B	0.48	U	5.0	0.48	0.24	ug/L	1
Xylenes (total)	1330-20-7	8260B	0.57	U	5.0	0.57	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		89	75-120
1,2-Dichloroethane-d4		92	70-120
Toluene-d8		92	85-120
Dibromofluoromethane		97	85-115

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 (SIM)

Client: **AECOM - Resolution Consultants**

Laboratory ID: **QK05015-015**

Description: **BEALB292TW03WG20151106**

Matrix: **Aqueous**

Date Sampled: **11/06/2015 1145**

Date Received: **11/06/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D (SIM)	5	11/18/2015 1128	RBH	11/10/2015 1444	89221

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzo(a)anthracene	56-55-3	8270D (SIM)	0.20	U	1.0	0.20	0.095	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D (SIM)	0.20	U	1.0	0.20	0.095	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D (SIM)	0.20	U	1.0	0.20	0.12	ug/L	1
Chrysene	218-01-9	8270D (SIM)	0.20	U	1.0	0.20	0.11	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D (SIM)	0.40	U	1.0	0.40	0.20	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Methylnaphthalene-d10		83	15-139
Fluoranthene-d10		77	23-154

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  
Laboratory Analytical Report – Permanent Well Groundwater

# Volatile Organic Compounds by GC/MS

Client: <b>AECOM - Resolution Consultants</b>	Laboratory ID: <b>SC25010-008</b>
Description: <b>BEALB292MW01WG20170323</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>03/23/2017 1455</b>	
Date Received: <b>03/25/2017</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/28/2017 1704	TML		38220

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
<b>Ethylbenzene</b>	<b>100-41-4</b>	<b>8260B</b>	<b>3.2</b>		<b>1.0</b>	0.80	<b>0.40</b>	<b>ug/L</b>	<b>1</b>
<b>Naphthalene</b>	<b>91-20-3</b>	<b>8260B</b>	<b>10</b>		<b>1.0</b>	0.80	<b>0.40</b>	<b>ug/L</b>	<b>1</b>
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		100	85-114
Dibromofluoromethane		105	80-119
1,2-Dichloroethane-d4		92	81-118
Toluene-d8		107	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: **SC25010-008**

Description: **BEALB292MW01WG20170323**

Matrix: **Aqueous**

Date Sampled: **03/23/2017 1455**

Date Received: **03/25/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	04/04/2017 1517	RBH	03/30/2017 1010	38407

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		48	44-120
2-Fluorobiphenyl		66	44-119
Terphenyl-d14		71	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 E  
Regulatory Correspondence



BOARD:  
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C. Earl Hunter, Commissioner

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

BOARD:  
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M. David Mitchell, MD  
Glenn A. McCall  
Coleman F. Buckhouse, MD

8 September 2008

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

Re: MCAS – Laurel Bay Housing – 292 Birch  
Site ID # 04038  
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](mailto: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 (via pdf)



Catherine E. Heigel, Director

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

July 1, 2015

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 Storage Tank Assessment Reports for:  
*See attached sheet*

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received the referenced Underground Storage Tank Assessment Reports for the addresses listed above. 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 assessment 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 this site.

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 [kriegkm@dhec.sc.gov](mailto:kriegkm@dhec.sc.gov) or 803-898-0255.

Sincerely,

Kent Krieg  
Department of Defense Corrective Action Section  
Bureau of Land and Waste Management  
South Carolina Department of Health and Environmental Control

Cc: Russell Berry (via email)  
Craig Ehde (via email)  
Bryan Beck (via email)



Catherine E. Heigel, Director

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

**Attachment to:** Krieg to Drawdy  
 Subject: IGWA  
 Dated 7/1/2015

**Laurel Bay Underground Storage Tank Assessment Reports for: (97 addresses/110 tanks)**

118 Banyan	343 Ash Tank 2
126 Banyan	344 Ash Tank 2
127 Banyan	347 Ash Tank 2
130 Banyan Tank 1	378 Aspen Tank 2
141 Laurel Bay	379 Aspen
151 Laurel Bay	382 Aspen Tank 1
224 Cypress	382 Aspen Tank 2
227 Cypress	394 Acorn Tank 2
256 Beech Tank 2	400 Elderberry
257 Beech Tank 1	432 Elderberry
257 Beech Tank 2	436 Elderberry
264 Beech	473 Dogwood Tank 2
265 Beech Tank 2	482 Laurel Bay
265 Beech Tank 3	517 Laurel Bay
275 Birch	586 Aster
277 Birch Tank 1	632 Dahlia
285 Birch	639 Dahlia Tank 2
292 Birch Tank 3	643 Dahlia Tank 1
297 Birch	644 Dahlia Tank 1
301 Ash	644 Dahlia Tank 2
306 Ash	646 Dahlia Tank 1
310 Ash Tank 1	646 Dahlia Tank 2
313 Ash	665 Camellia
315 Ash Tank 2	699 Abelia
316 Ash	744 Blue Bell
319 Ash	745 Blue Bell Tank 1
320 Ash	747 Blue Bell Tank 1
321 Ash	747 Blue Bell Tank 2
329 Ash	747 Blue Bell Tank 3
330 Ash Tank 2	749 Blue Bell Tank 1
331 Ash	749 Blue Bell Tank 2
332 Ash	751 Blue Bell
333 Ash	762 Althea
335 Ash Tank 1	765 Althea Tank 2
335 Ash Tank 2	766 Althea Tank 4
341 Ash	767 Althea Tank 1
342 Ash Tank 1	768 Althea Tank 2
342 Ash Tank 2	768 Althea Tank 3

**Laurel Bay Underground Storage Tank Assessment Reports for: (98 addresses/110 tanks) cont.**

768 Althea Tank 4	1067 Gardenia
769 Althea Tank 1	1077 Heather
769 Althea Tank 2	1081 Heather
775 Althea	1101 Iris Tank 2
819 Azalea	1104 Iris
840 Azalea	1105 Iris Tank 2
878 Cobia	1124 Iris Tank 2
891 Cobia	1142 Iris Tank 2
913 Barracuda	1146 Iris Tank 2
916 Barracuda	1218 Cardinal
923 Albacore	1240 Dove
1004 Bobwhite	1266 Dove
1022 Foxglove	1292 Eagle
1031 Foxglove	1299 Eagle Tank 1
1034 Foxglove Tank 2	1302 Eagle
1061 Gardenia Tank 3	1336 Albatross
1064 Gardenia	1351 Cardinal



Catherine E. Heigel, Director

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

Division of Waste Management  
Bureau of Land and Waste Management

June 8, 2016

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

RE: Approval and Concurrence with Draft Final Initial Groundwater Investigation Report-November and December 2015  
Laurel Bay Military Housing Area Multiple Properties  
Dated April 2015

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received groundwater data in the above referenced Groundwater Investigation Report for the attached addresses on May 2, 2016. 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 the Department's request, groundwater samples were collected from the attached referenced addresses. The Department 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 wells should be installed at the 15 stated addresses. For the remaining 80 addresses, there is no indication of contamination on the property and therefore no further investigation is required at this time.

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](mailto:petruslb@dhec.sc.gov) or 803-898-0294.

Sincerely,

Laurel Petrus  
RCRA Federal Facilities Section

*Attachment: Specific Property Recommendations*

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





<b>No Further Action recommendation (80 addresses)</b>	
118 Banyan Drive	644 Dahlia Drive
126 Banyan Drive	646 Dahlia Drive
127 Banyan Drive	665 Camellia Drive
141 Laurel Bay Blvd	699 Abelia Street
151 Laurel Bay Blvd	744 Blue Bell Lane
224 Cypress Street	745 Blue Bell Lane
227 Cypress Street	751 Blue Bell Lane
257 Beech Street	762 Althea Street
264 Beech Street	765 Althea Street
265 Beech Street	766 Althea Street
275 Birch Drive	767 Althea Street
277 Birch Drive	768 Althea Street
297 Birch Drive	769 Althea Street
301 Ash Street	819 Azalea Drive
306 Ash Street	840 Azalea Drive
310 Ash Street	878 Cobia Drive
313 Ash Street	891 Cobia Drive
315 Ash Street	913 Barracuda Drive
316 Ash Street	916 Barracuda Drive
319 Ash Street	923 Wren Lane
320 Ash Street	1004 Bobwhite Drive
321 Ash Street	1022 Foxglove Street
329 Ash Street	1031 Foxglove Street
332 Ash Street	1061 Gardenia Drive
333 Ash Street	1064 Gardenia Drive
341 Ash Street	1067 Gardenia Drive
347 Ash Street	1077 Heather Street
378 Aspen Street	1081 Heather Street
379 Aspen Street	1101 Iris Lane
382 Aspen Street	1105 Iris Lane
394 Acorn Street	1142 Iris Lane
400 Elderberry Drive	1146 Iris Lane
432 Elderberry Drive	1218 Cardinal Lane
436 Elderberry Drive	1240 Dove Lane
482 Laurel Bay Blvd	1266 Dove Lane
517 Laurel Bay Blvd	1292 Eagle Lane
586 Aster Street	1299 Eagle Lane
632 Dahlia Drive	1302 Eagle Lane
639 Dahlia Drive	1336 Albatross Drive
643 Dahlia Drive	1351 Cardinal Lane



C. Earl Hunter, Commissioner

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

17 December 2008

Commanding Officer  
ATTN: S-4 NREAO (Craig Ehde)  
MCAS  
PO Box 55001  
Beaufort, SC 29904-5001

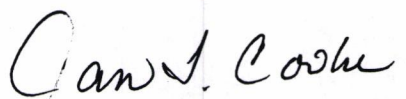
Re: MCAS – Laurel Bay Housing – 292 Birch  
**Site ID # 04038**  
Groundwater Sampling Results received 6 November 2008  
Beaufort County

Dear Mr. Ehde:

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](mailto: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  
Tri-Command Communities; Attn: Mr. Robert Bible; 600 Laurel Bay Road Beaufort, SC  
29906

Technical File





December 11, 2017

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

RE: Approved Response to Comments  
Draft Final Revision 1 Groundwater Assessment Report March and April 2017  
Laurel Bay Military Housing Area

Dear Mr. Drawdy:

The South Carolina Department of Health and Environmental Control (DHEC) received the above referenced report on November 2, 2017. 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).

DHEC has reviewed the report. Based on this review, DHEC has not generated any additional comments.

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](mailto:petruslb@dhec.sc.gov) or 803-898-0294.

Sincerely,

Laurel Petrus  
Department of Defense Corrective Action Section

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