

**SUMMARY REPORT**  
**417 WEST LAUREL BAY BOULEVARD (FORMERLY 516 WEST LAUREL BAY**  
**BOULEVARD)**  
**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**

**SUMMARY REPORT**  
**417 WEST LAUREL BAY BOULEVARD (FORMERLY 516 WEST LAUREL BAY**  
**BOULEVARD)**  
**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**

**Prepared by:**

**CDM - AECOM**  
**Multimedia Joint Venture**

**CDM - AECOM Multimedia Joint Venture**  
**10560 Arrowhead Drive, Suite 500**  
**Fairfax, Virginia 22030**

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

---

## Table of Contents

<b>1.0</b>	<b>INTRODUCTION .....</b>	<b>1</b>
1.1	BACKGROUND INFORMATION.....	1
1.2	UST REMOVAL AND ASSESSMENT PROCESS.....	2
<b>2.0</b>	<b>SAMPLING ACTIVITIES AND RESULTS .....</b>	<b>3</b>
2.1	UST REMOVAL AND SOIL SAMPLING .....	3
2.2	SOIL ANALYTICAL RESULTS.....	4
2.3	GROUNDWATER SAMPLING.....	4
2.4	GROUNDWATER ANALYTICAL RESULTS .....	5
<b>3.0</b>	<b>PROPERTY STATUS.....</b>	<b>5</b>
<b>4.0</b>	<b>REFERENCES .....</b>	<b>5</b>

## Tables

Table 1	Laboratory Analytical Results - Soil
Table 2	Laboratory Analytical Results - Groundwater

## Appendices

Appendix A	Multi-Media Selection Process for LBMH
Appendix B	UST Assessment Report
Appendix C	Laboratory Analytical Report - Groundwater
Appendix D	Regulatory Correspondence

---

### 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 417 West Laurel Bay Boulevard (Formerly 516 West Laurel Bay Boulevard). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

### **1.1 Background Information**

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

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

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

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

## **1.2 UST Removal and Assessment Process**

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

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

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

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

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

## **2.0 SAMPLING ACTIVITIES AND RESULTS**

The following section presents the sampling activities and associated results for 417 West Laurel Bay Boulevard (Formerly 516 West Laurel Bay Boulevard). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 516 West Laurel Bay Boulevard* (MCAS Beaufort, 2013). The UST Assessment Report is provided in Appendix B. Details regarding the IGWA sampling activities at this site are provided in the *Initial Groundwater Investigation Report – May and June 2015* (Resolution Consultants, 2015). The laboratory report that includes the pertinent IGWA analytical results for this site is presented in Appendix C.

### **2.1 UST Removal and Soil Sampling**

On November 5, 2012, a single 280 gallon heating oil UST was removed from the driveway adjacent to the shed at 417 West Laurel Bay Boulevard (Formerly 516 West Laurel Bay Boulevard). The former UST location is indicated on the Figures 2 and 3 of the UST Assessment

Report (Appendix B). The UST was removed, cleaned, and shipped offsite for recycling. There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 5'10" bgs and a single soil sample was collected from that depth. The sample was collected from the fill port side of the former UST to represent a worst case scenario.

Following UST removal, a soil sample was collected from the base of the excavation 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 Report presented in Appendix B. The laboratory analytical data report 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 location (Tank 1) 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 location (Tank 1) at 417 West Laurel Bay Boulevard (Formerly 516 West Laurel Bay Boulevard) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In a letters dated November 2, 2007 and May 15, 2014, SCDHEC requested an IGWA be conducted at the former UST location (Tank 1) at 417 West Laurel Bay Boulevard (Formerly 516 West Laurel Bay Boulevard) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letters are provided in Appendix D.

## **2.3 Groundwater Sampling**

On June 9, 2015, a temporary monitoring well was installed at 417 West Laurel Bay Boulevard (Formerly 516 West Laurel Bay Boulevard), 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. The former UST location is indicated on the Figures 2 and 3 of the UST Assessment



Report (Appendix B). Further details are provided in the *Initial Groundwater Investigation Report – May and June 2015* (Resolution Consultants, 2015).

The sampling strategy for this phase of the investigation required a one-time sampling event of the temporarily installed 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. Upon completion of groundwater sampling, the temporary well was abandoned in accordance with the South Carolina Well Standards and Regulations R.61-71 (SCDHEC, 2016). Field forms are provided in the *Initial Groundwater Investigation Report – May and June 2015* (Resolution Consultants, 2015).

## **2.4 Groundwater Analytical Results**

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

The groundwater results collected from 417 West Laurel Bay Boulevard (Formerly 516 West Laurel Bay Boulevard) 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 UST at concentrations that present a potential risk to human health and the environment.

## **3.0 PROPERTY STATUS**

Based on the analytical results for groundwater, SCDHEC made the determination that NFA was required for 417 West Laurel Bay Boulevard (Formerly 516 West Laurel Bay Boulevard). This NFA determination was obtained in a letter dated February 22, 2016. SCDHEC's NFA letter is provided in Appendix D.

## **4.0 REFERENCES**

Marine Corps Air Station Beaufort, 2013. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 516 West Laurel Bay Boulevard, Laurel Bay Military Housing Area*, February 2013.

Resolution Consultants, 2015. *Initial Groundwater Investigation Report – May and June 2015 for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, October 2015.

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**  
**417 West Laurel Bay Blvd. (Formerly 516 West Laurel Bay Blvd.)**  
**Laurel Bay Military Housing Area**  
**Marine Corps Air Station Beaufort**  
**Beaufort, South Carolina**

Constituent	SCDHEC RBSLs <sup>(1)</sup>	Results Samples Collected 11/05/12
<b>Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)</b>		
Benzene	0.003	ND
Ethylbenzene	1.15	ND
Naphthalene	0.036	<b>0.144</b>
Toluene	0.627	ND
Xylenes, Total	13.01	ND
<b>Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)</b>		
Benzo(a)anthracene	0.66	ND
Benzo(b)fluoranthene	0.66	ND
Benzo(k)fluoranthene	0.66	ND
Chrysene	0.66	ND
Dibenz(a,h)anthracene	0.66	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 2.0 (SCDHEC, April 2013).

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - milligrams per kilogram

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

**Table 2**  
**Laboratory Analytical Results - Groundwater**  
**417 West Laurel Bay Blvd. (Formerly 516 West Laurel Bay Blvd.)**  
**Laurel Bay Military Housing Area**  
**Marine Corps Air Station Beaufort**  
**Beaufort, South Carolina**

Constituent	SCDHEC RBSLs <sup>(1)</sup>	Site-Specific Groundwater VISLs (µg/L) <sup>(2)</sup>	Results Sample Collected 06/10/15
<b>Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)</b>			
Benzene	5	16.24	ND
Ethylbenzene	700	45.95	ND
Naphthalene	25	29.33	ND
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:**

<sup>(1)</sup> 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).

<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

**Appendix A**  
**Multi-Media Selection Process for LBMH**



Appendix A - Multi-Media Selection Process for LBMH

**Appendix B**  
**UST Assessment Report**



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

<b>Date Received</b> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<b>State Use Only</b> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
---	--

**Submit Completed Form To:**  
**UST Program**  
**SCDHEC**  
**2600 Bull Street**  
**Columbia, South Carolina 29201**  
**Telephone (803) 896-7957**

**I. OWNERSHIP OF UST (S)**

MCAS Beaufort, Commanding Officer Attn: NREAO (Craig Ehde)		
Owner Name (Corporation, Individual, Public Agency, Other)		
P.O. Box 55001		
Mailing Address		
Beaufort,	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	
516 Laurel Bay Blvd., Laurel Bay Military Housing Area	
Street Address or State Road (as applicable)	
Beaufort,	Beaufort
City	County

### III. INSURANCE INFORMATION

#### Insurance Statement

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

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

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

My policy provider is: \_\_\_\_\_

The policy deductible is: \_\_\_\_\_

The policy limit is: \_\_\_\_\_

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

### IV. REQUEST FOR SUPERB FUNDING

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

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

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

\_\_\_\_\_  
Name (Type or print.)

\_\_\_\_\_  
Signature

**To be completed by Notary Public:**

Sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
(Name)

Notary Public for the state of \_\_\_\_\_.  
*Please affix State seal if you are commissioned outside South Carolina*

## VI. UST INFORMATION

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

516				
LaurelBB				
Heating oil				
280 gal				
Late 1950s				
Steel				
Mid 1980s				
5'10"				
No				
No				
Removed				
11/5/2012				
Yes				
Yes				

- M. Method of disposal for any USTs removed from the ground (attach disposal manifests)  
UST 516LaurelBB 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 516LaurelBB 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, pitting and holes were found throughout the tank.
-

## VII. PIPING INFORMATION

A. Construction Material..(ex. Steel, FRP).....

B. Distance from UST to Dispenser.....

C. Number of Dispensers.....

D. Type of System Pressure or Suction.....

E. Was Piping Removed from the Ground? Y/N

F. Visible Corrosion or Pitting Y/N.....

G. Visible Holes Y/N.....

H. Age.....

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

516 LaurelBB				
Steel & Copper				
N/A				
N/A				
Suction				
No				
Yes				
No				
Late 1950s				

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

## VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

## IX. SITE CONDITIONS

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

## X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
516 LaurelBB	Excav at fill end	Soil	Sandy	5'10"	11/5/12 1500 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

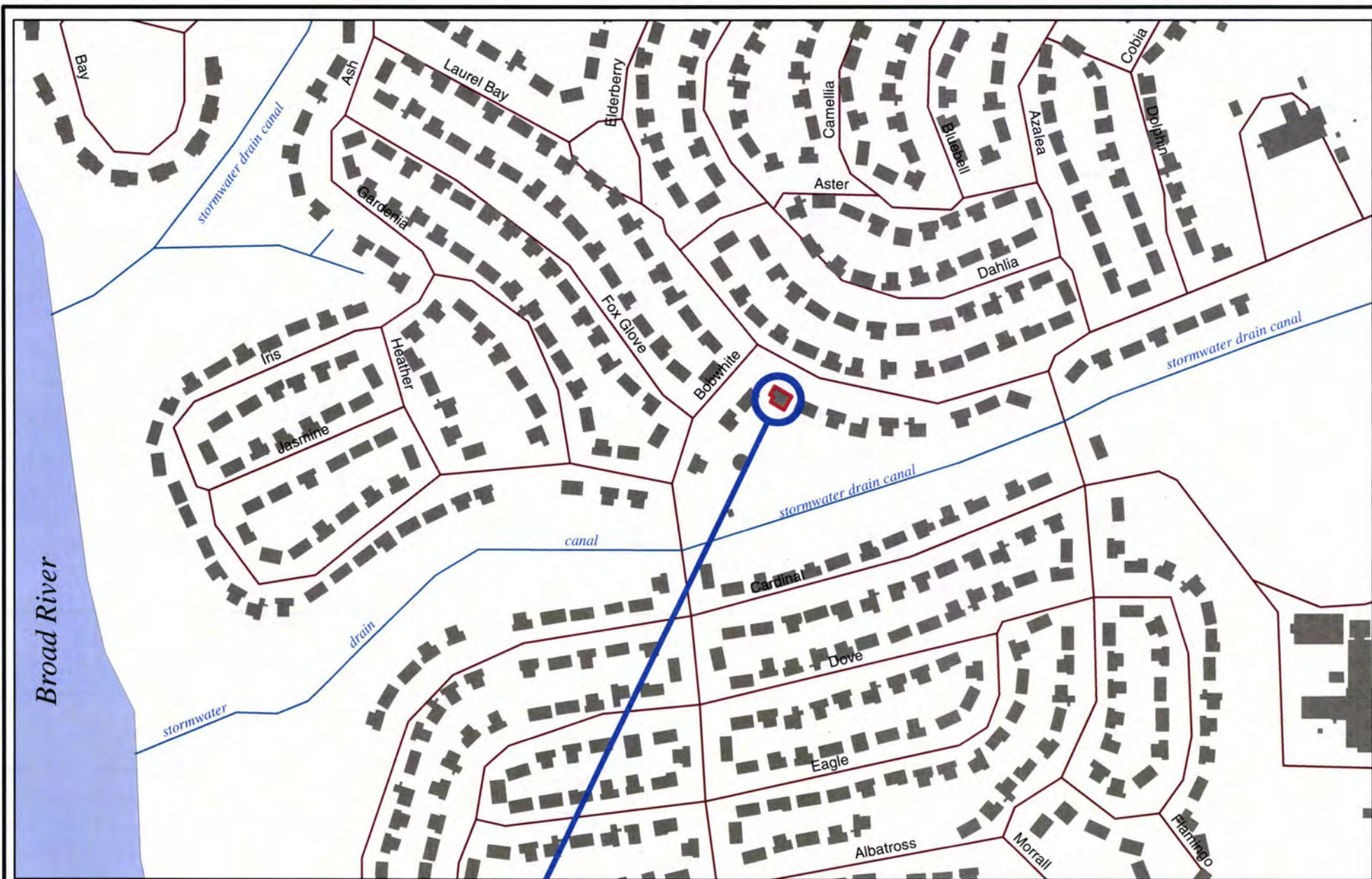
	Yes	No
<p>A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?</p> <p style="text-align: right;">*Stormwater drainage canal</p> <p>If yes, indicate type of receptor, distance, and direction on site map.</p>	*X	
<p>B. Are there any public, private, or irrigation 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: right;">*Sewer, water, electricity cable &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



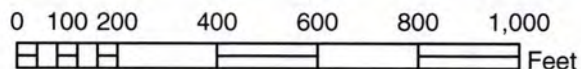
### **XIII. SITE MAP**

**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)



**516 LAUREL BAY**



**SBG-EEG, Inc.**

7301 Rivers Ave., Suite 245  
N. Charleston SC 29406-9643

Ph. (843) 573-7140

Drawn By: L. DiAsio

Dwg Date: Dec 2012

**FIGURE 1: LOCATION MAP**  
**516 LAUREL BAY BLVD**  
**LAUREL BAY, BEAUFORT SC**

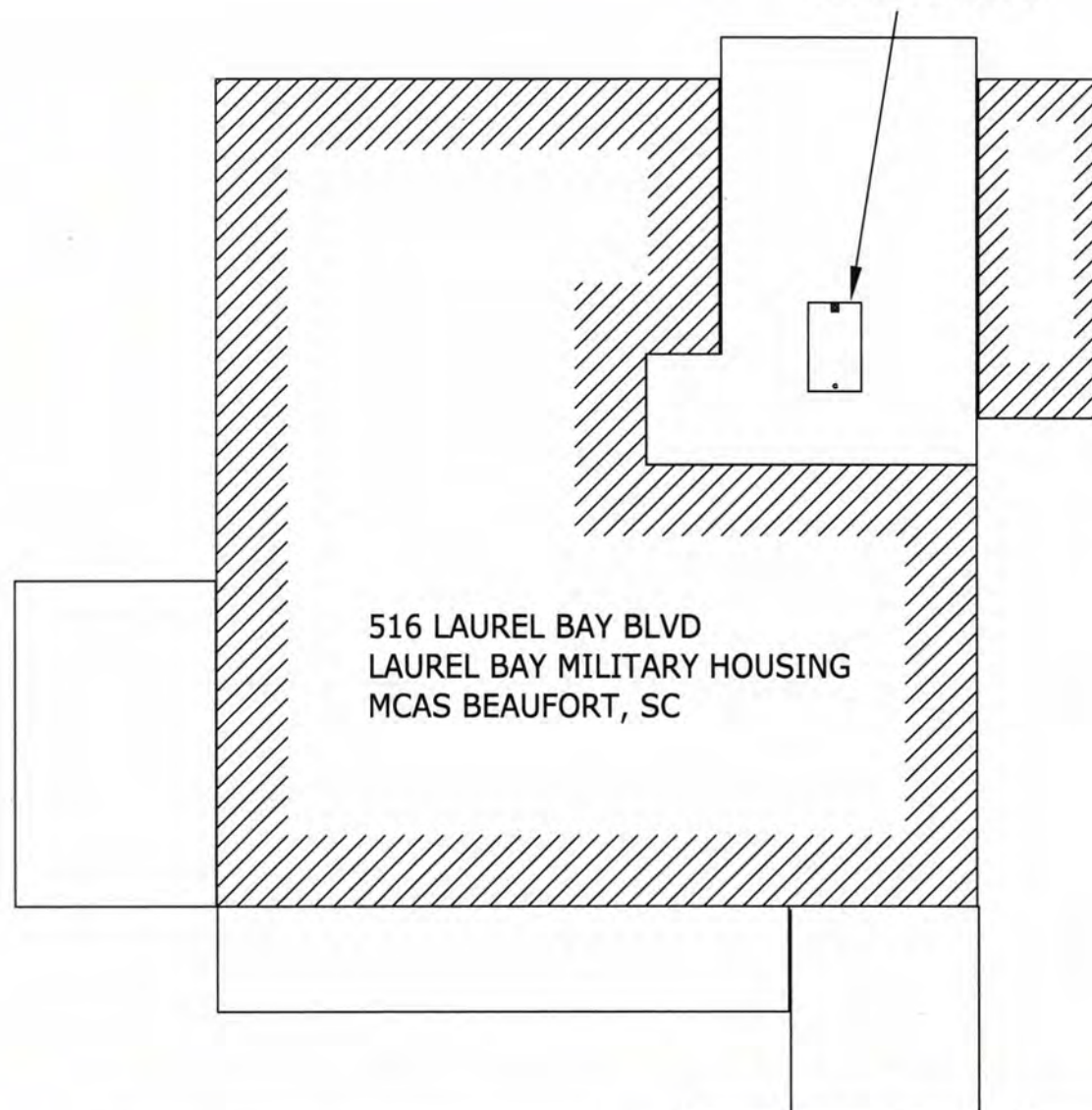




STORMWATER  
CANAL  $\approx$  330'



UST  
516LAURELBB



516 LAUREL BAY BLVD  
LAUREL BAY MILITARY HOUSING  
MCAS BEAUFORT, SC

GRAPHIC SCALE

0 5' 10' 20'

TANK DEPTH BELOW GRADE  
516LAURELBB = 34"

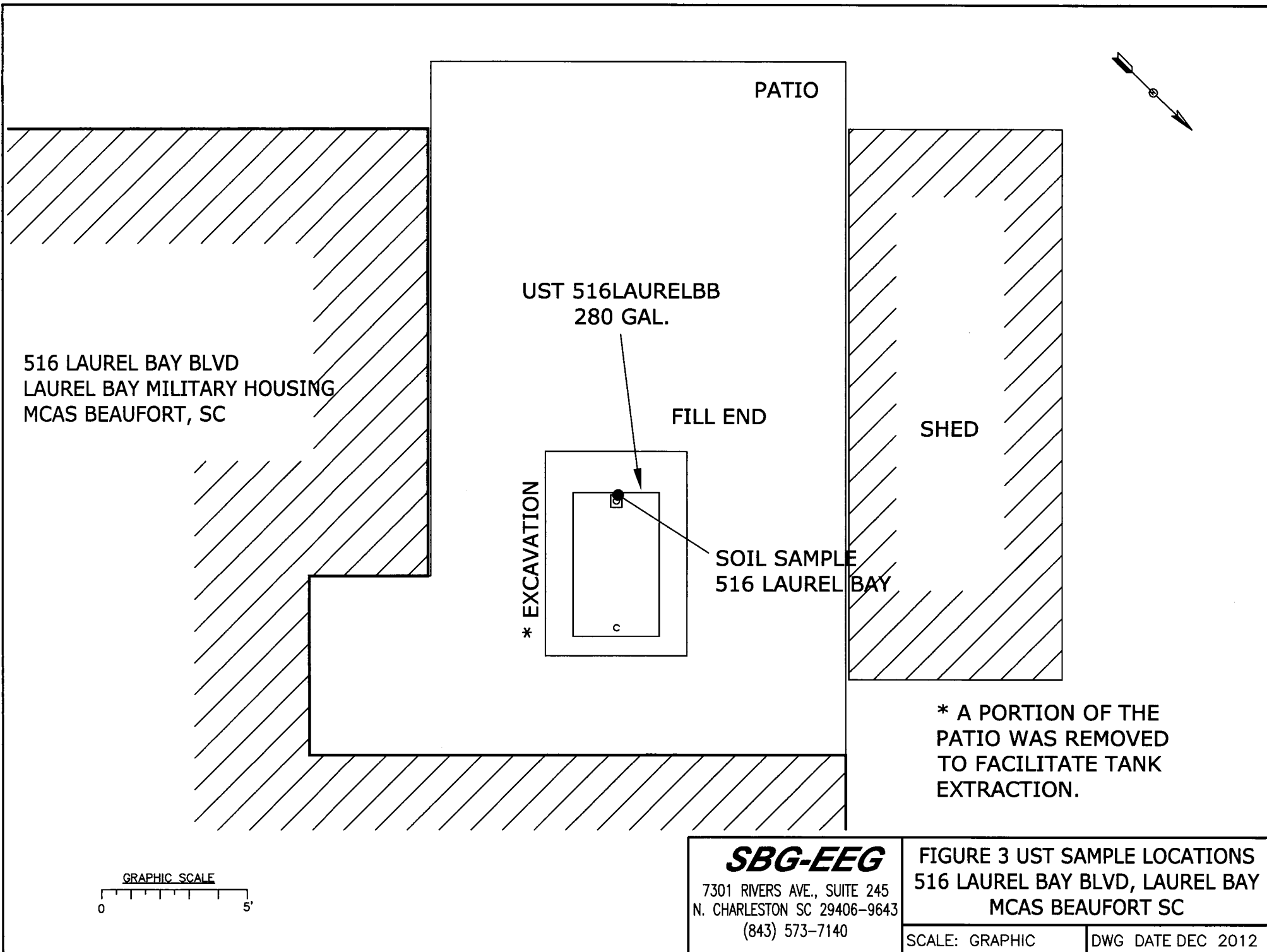
**SBG-EEG**

7301 RIVERS AVE., SUITE 245  
N. CHARLESTON SC 29406-9643  
(843) 573-7140

FIGURE 2 SITE MAP  
516 LAUREL BAY BLVD, LAUREL BAY  
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE DEC 2012





Picture 1: Location of UST 516LaurelBB.



Picture 2: UST 516LaurelBB 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	516LaurelBB						
<b>Benzene</b>		ND						
<b>Toluene</b>		ND						
<b>Ethylbenzene</b>		ND						
<b>Xylenes</b>		ND						
<b>Naphthalene</b>		0.144 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
Free Product Thickness	None				
Benzene	5				
Toluene	1,000				
Ethylbenzene	700				
Xylenes	10,000				
Total BTEX	N/A				
MTBE	40				
Naphthalene	25				
Benzo (a) anthracene	10				
Benzo (b) flouranthene	10				
Benzo (k) flouranthene	10				
Chrysene	10				
Dibenz (a, h) anthracene	10				
EDB	.05				
1,2-DCA	5				
Lead	Site specific				

## **XV. ANALYTICAL RESULTS**

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

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



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

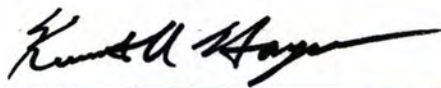
TestAmerica Job ID: 490-11468-1

Client Project/Site: Laurel Bay Housing Project

For:

Environmental Enterprise Group  
10179 Highway 78  
Ladson, South Carolina 29456

Attn: Mr. Tom McElwee



Authorized for release by:  
11/24/2012 11:30:05 AM

Ken Hayes  
Project Manager I  
[ken.hayes@testamericainc.com](mailto:ken.hayes@testamericainc.com)

### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Sample Summary . . . . .	3
Case Narrative . . . . .	4
Definitions . . . . .	5
Client Sample Results . . . . .	6
QC Sample Results . . . . .	12
QC Association . . . . .	17
Chronicle . . . . .	19
Method Summary . . . . .	21
Certification Summary . . . . .	22
Chain of Custody . . . . .	23
Receipt Checklists . . . . .	25



## Sample Summary

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-11468-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-11468-1	516 Laurel Bay	Soil	11/05/12 15:00	11/13/12 17:41
490-11468-2	873 Cobia	Soil	11/05/12 14:45	11/13/12 17:41
490-11468-3	1037 Iris	Soil	11/07/12 14:45	11/13/12 17:41
490-11468-4	723 Bluebell	Soil	11/07/12 14:30	11/13/12 17:41
490-11468-5	1134 Iris	Soil	11/08/12 14:15	11/13/12 17:41
490-11468-6	1143 Iris	Soil	11/08/12 14:45	11/13/12 17:41

## Case Narrative

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-11468-1

**Job ID: 490-11468-1**

**Laboratory: TestAmerica Nashville**

### Narrative

### Job Narrative 490-11468-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 11/13/2012 5:41 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.6° C.

#### GC/MS VOA

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 36345.

Method(s) 8260B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample(s): 1143 Iris (490-11468-6).

Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample matrix: 1143 Iris (490-11468-6). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: 1143 Iris (490-11468-6). Evidence of matrix interference is present.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 36624.

No other analytical or quality issues were noted.

#### GC/MS Semi VOA

No analytical or quality issues were noted.

#### Organic Prep

No analytical or quality issues were noted.

#### VOA Prep

No analytical or quality issues were noted.

## Definitions/Glossary

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-11468-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

#### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Glossary

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



# Client Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-11468-1

**Client Sample ID: 516 Laurel Bay**

**Lab Sample ID: 490-11468-1**

Date Collected: 11/05/12 15:00

Matrix: Soil

Date Received: 11/13/12 17:41

Percent Solids: 97.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.107	0.0358	mg/Kg	☼	11/14/12 14:09	11/15/12 23:30	1
Ethylbenzene	ND		0.107	0.0358	mg/Kg	☼	11/14/12 14:09	11/15/12 23:30	1
Naphthalene	0.144	J	0.267	0.0909	mg/Kg	☼	11/14/12 14:09	11/15/12 23:30	1
Toluene	ND		0.107	0.0396	mg/Kg	☼	11/14/12 14:09	11/15/12 23:30	1
Xylenes, Total	ND		0.267	0.0358	mg/Kg	☼	11/14/12 14:09	11/15/12 23:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130	11/14/12 14:09	11/15/12 23:30	1
4-Bromofluorobenzene (Surr)	121		70 - 130	11/14/12 14:09	11/15/12 23:30	1
Dibromofluoromethane (Surr)	101		70 - 130	11/14/12 14:09	11/15/12 23:30	1
Toluene-d8 (Surr)	93		70 - 130	11/14/12 14:09	11/15/12 23:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0664	0.00991	mg/Kg	☼	11/17/12 10:46	11/21/12 17:42	1
Acenaphthylene	ND		0.0664	0.00892	mg/Kg	☼	11/17/12 10:46	11/21/12 17:42	1
Anthracene	ND		0.0664	0.00892	mg/Kg	☼	11/17/12 10:46	11/21/12 17:42	1
Benzo[a]anthracene	ND		0.0664	0.0149	mg/Kg	☼	11/17/12 10:46	11/21/12 17:42	1
Benzo[a]pyrene	0.0362	J	0.0664	0.0119	mg/Kg	☼	11/17/12 10:46	11/21/12 17:42	1
Benzo[b]fluoranthene	ND		0.0664	0.0119	mg/Kg	☼	11/17/12 10:46	11/21/12 17:42	1
Benzo[g,h,i]perylene	ND		0.0664	0.00892	mg/Kg	☼	11/17/12 10:46	11/21/12 17:42	1
Benzo[k]fluoranthene	ND		0.0664	0.0139	mg/Kg	☼	11/17/12 10:46	11/21/12 17:42	1
1-Methylnaphthalene	ND		0.0664	0.0139	mg/Kg	☼	11/17/12 10:46	11/21/12 17:42	1
Pyrene	ND		0.0664	0.0119	mg/Kg	☼	11/17/12 10:46	11/21/12 17:42	1
Phenanthrene	ND		0.0664	0.00892	mg/Kg	☼	11/17/12 10:46	11/21/12 17:42	1
Chrysene	ND		0.0664	0.00892	mg/Kg	☼	11/17/12 10:46	11/21/12 17:42	1
Dibenz(a,h)anthracene	ND		0.0664	0.00694	mg/Kg	☼	11/17/12 10:46	11/21/12 17:42	1
Fluoranthene	ND		0.0664	0.00892	mg/Kg	☼	11/17/12 10:46	11/21/12 17:42	1
Fluorene	ND		0.0664	0.0119	mg/Kg	☼	11/17/12 10:46	11/21/12 17:42	1
Indeno[1,2,3-cd]pyrene	ND		0.0664	0.00991	mg/Kg	☼	11/17/12 10:46	11/21/12 17:42	1
Naphthalene	ND		0.0664	0.00892	mg/Kg	☼	11/17/12 10:46	11/21/12 17:42	1
2-Methylnaphthalene	ND		0.0664	0.0159	mg/Kg	☼	11/17/12 10:46	11/21/12 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	53		29 - 120	11/17/12 10:46	11/21/12 17:42	1
Terphenyl-d14 (Surr)	70		13 - 120	11/17/12 10:46	11/21/12 17:42	1
Nitrobenzene-d5 (Surr)	53		27 - 120	11/17/12 10:46	11/21/12 17:42	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97		0.10	0.10	%			11/14/12 09:08	1

TestAmerica Nashville



# Client Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-11468-1

**Client Sample ID: 873 Cobia**

**Lab Sample ID: 490-11468-2**

Date Collected: 11/05/12 14:45

Matrix: Soil

Date Received: 11/13/12 17:41

Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.105	0.0352	mg/Kg	⊛	11/14/12 14:09	11/16/12 00:01	1
Ethylbenzene	ND		0.105	0.0352	mg/Kg	⊛	11/14/12 14:09	11/16/12 00:01	1
Naphthalene	ND		0.263	0.0894	mg/Kg	⊛	11/14/12 14:09	11/16/12 00:01	1
Toluene	ND		0.105	0.0389	mg/Kg	⊛	11/14/12 14:09	11/16/12 00:01	1
Xylenes, Total	ND		0.263	0.0352	mg/Kg	⊛	11/14/12 14:09	11/16/12 00:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130	11/14/12 14:09	11/16/12 00:01	1
4-Bromofluorobenzene (Surr)	105		70 - 130	11/14/12 14:09	11/16/12 00:01	1
Dibromofluoromethane (Surr)	100		70 - 130	11/14/12 14:09	11/16/12 00:01	1
Toluene-d8 (Surr)	91		70 - 130	11/14/12 14:09	11/16/12 00:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0661	0.00987	mg/Kg	⊛	11/17/12 10:46	11/21/12 18:51	1
Acenaphthylene	ND		0.0661	0.00888	mg/Kg	⊛	11/17/12 10:46	11/21/12 18:51	1
Anthracene	ND		0.0661	0.00888	mg/Kg	⊛	11/17/12 10:46	11/21/12 18:51	1
Benzo[a]anthracene	ND		0.0661	0.0148	mg/Kg	⊛	11/17/12 10:46	11/21/12 18:51	1
Benzo[a]pyrene	ND		0.0661	0.0118	mg/Kg	⊛	11/17/12 10:46	11/21/12 18:51	1
Benzo[b]fluoranthene	ND		0.0661	0.0118	mg/Kg	⊛	11/17/12 10:46	11/21/12 18:51	1
Benzo[g,h,i]perylene	ND		0.0661	0.00888	mg/Kg	⊛	11/17/12 10:46	11/21/12 18:51	1
Benzo[k]fluoranthene	ND		0.0661	0.0138	mg/Kg	⊛	11/17/12 10:46	11/21/12 18:51	1
1-Methylnaphthalene	ND		0.0661	0.0138	mg/Kg	⊛	11/17/12 10:46	11/21/12 18:51	1
Pyrene	ND		0.0661	0.0118	mg/Kg	⊛	11/17/12 10:46	11/21/12 18:51	1
Phenanthrene	ND		0.0661	0.00888	mg/Kg	⊛	11/17/12 10:46	11/21/12 18:51	1
Chrysene	ND		0.0661	0.00888	mg/Kg	⊛	11/17/12 10:46	11/21/12 18:51	1
Dibenz(a,h)anthracene	ND		0.0661	0.00691	mg/Kg	⊛	11/17/12 10:46	11/21/12 18:51	1
Fluoranthene	ND		0.0661	0.00888	mg/Kg	⊛	11/17/12 10:46	11/21/12 18:51	1
Fluorene	ND		0.0661	0.0118	mg/Kg	⊛	11/17/12 10:46	11/21/12 18:51	1
Indeno[1,2,3-cd]pyrene	ND		0.0661	0.00987	mg/Kg	⊛	11/17/12 10:46	11/21/12 18:51	1
Naphthalene	ND		0.0661	0.00888	mg/Kg	⊛	11/17/12 10:46	11/21/12 18:51	1
2-Methylnaphthalene	ND		0.0661	0.0158	mg/Kg	⊛	11/17/12 10:46	11/21/12 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	48		29 - 120	11/17/12 10:46	11/21/12 18:51	1
Terphenyl-d14 (Surr)	67		13 - 120	11/17/12 10:46	11/21/12 18:51	1
Nitrobenzene-d5 (Surr)	50		27 - 120	11/17/12 10:46	11/21/12 18:51	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94		0.10	0.10	%			11/14/12 09:08	1

TestAmerica Nashville



# Client Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-11468-1

**Client Sample ID: 1037 Iris**

**Lab Sample ID: 490-11468-3**

**Date Collected: 11/07/12 14:45**

**Matrix: Soil**

**Date Received: 11/13/12 17:41**

**Percent Solids: 93.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.112	0.0375	mg/Kg	☼	11/14/12 14:09	11/16/12 00:33	1
Ethylbenzene	ND		0.112	0.0375	mg/Kg	☼	11/14/12 14:09	11/16/12 00:33	1
Naphthalene	ND		0.280	0.0951	mg/Kg	☼	11/14/12 14:09	11/16/12 00:33	1
Toluene	ND		0.112	0.0414	mg/Kg	☼	11/14/12 14:09	11/16/12 00:33	1
Xylenes, Total	ND		0.280	0.0375	mg/Kg	☼	11/14/12 14:09	11/16/12 00:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130	11/14/12 14:09	11/16/12 00:33	1
4-Bromofluorobenzene (Surr)	95		70 - 130	11/14/12 14:09	11/16/12 00:33	1
Dibromofluoromethane (Surr)	101		70 - 130	11/14/12 14:09	11/16/12 00:33	1
Toluene-d8 (Surr)	91		70 - 130	11/14/12 14:09	11/16/12 00:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0663	0.00989	mg/Kg	☼	11/17/12 10:46	11/21/12 19:14	1
Acenaphthylene	ND		0.0663	0.00890	mg/Kg	☼	11/17/12 10:46	11/21/12 19:14	1
Anthracene	ND		0.0663	0.00890	mg/Kg	☼	11/17/12 10:46	11/21/12 19:14	1
Benzo[a]anthracene	ND		0.0663	0.0148	mg/Kg	☼	11/17/12 10:46	11/21/12 19:14	1
Benzo[a]pyrene	ND		0.0663	0.0119	mg/Kg	☼	11/17/12 10:46	11/21/12 19:14	1
Benzo[b]fluoranthene	ND		0.0663	0.0119	mg/Kg	☼	11/17/12 10:46	11/21/12 19:14	1
Benzo[g,h,i]perylene	ND		0.0663	0.00890	mg/Kg	☼	11/17/12 10:46	11/21/12 19:14	1
Benzo[k]fluoranthene	ND		0.0663	0.0138	mg/Kg	☼	11/17/12 10:46	11/21/12 19:14	1
1-Methylnaphthalene	ND		0.0663	0.0138	mg/Kg	☼	11/17/12 10:46	11/21/12 19:14	1
Pyrene	ND		0.0663	0.0119	mg/Kg	☼	11/17/12 10:46	11/21/12 19:14	1
Phenanthrene	ND		0.0663	0.00890	mg/Kg	☼	11/17/12 10:46	11/21/12 19:14	1
Chrysene	ND		0.0663	0.00890	mg/Kg	☼	11/17/12 10:46	11/21/12 19:14	1
Dibenz[a,h]anthracene	ND		0.0663	0.00692	mg/Kg	☼	11/17/12 10:46	11/21/12 19:14	1
Fluoranthene	ND		0.0663	0.00890	mg/Kg	☼	11/17/12 10:46	11/21/12 19:14	1
Fluorene	ND		0.0663	0.0119	mg/Kg	☼	11/17/12 10:46	11/21/12 19:14	1
Indeno[1,2,3-cd]pyrene	ND		0.0663	0.00989	mg/Kg	☼	11/17/12 10:46	11/21/12 19:14	1
Naphthalene	ND		0.0663	0.00890	mg/Kg	☼	11/17/12 10:46	11/21/12 19:14	1
2-Methylnaphthalene	ND		0.0663	0.0158	mg/Kg	☼	11/17/12 10:46	11/21/12 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	43		29 - 120	11/17/12 10:46	11/21/12 19:14	1
Terphenyl-d14 (Surr)	67		13 - 120	11/17/12 10:46	11/21/12 19:14	1
Nitrobenzene-d5 (Surr)	42		27 - 120	11/17/12 10:46	11/21/12 19:14	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94		0.10	0.10	%			11/14/12 09:08	1

TestAmerica Nashville



# Client Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-11468-1

**Client Sample ID: 723 Bluebell**

**Lab Sample ID: 490-11468-4**

**Date Collected: 11/07/12 14:30**

**Matrix: Soil**

**Date Received: 11/13/12 17:41**

**Percent Solids: 96.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.116	0.0387	mg/Kg	☼	11/14/12 14:09	11/16/12 01:04	1
Ethylbenzene	ND		0.116	0.0387	mg/Kg	☼	11/14/12 14:09	11/16/12 01:04	1
Naphthalene	ND		0.289	0.0983	mg/Kg	☼	11/14/12 14:09	11/16/12 01:04	1
Toluene	ND		0.116	0.0428	mg/Kg	☼	11/14/12 14:09	11/16/12 01:04	1
Xylenes, Total	ND		0.289	0.0387	mg/Kg	☼	11/14/12 14:09	11/16/12 01:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130	11/14/12 14:09	11/16/12 01:04	1
4-Bromofluorobenzene (Surr)	94		70 - 130	11/14/12 14:09	11/16/12 01:04	1
Dibromofluoromethane (Surr)	101		70 - 130	11/14/12 14:09	11/16/12 01:04	1
Toluene-d8 (Surr)	89		70 - 130	11/14/12 14:09	11/16/12 01:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0660	0.00985	mg/Kg	☼	11/17/12 10:46	11/21/12 19:37	1
Acenaphthylene	ND		0.0660	0.00886	mg/Kg	☼	11/17/12 10:46	11/21/12 19:37	1
Anthracene	ND		0.0660	0.00886	mg/Kg	☼	11/17/12 10:46	11/21/12 19:37	1
Benzo[a]anthracene	ND		0.0660	0.0148	mg/Kg	☼	11/17/12 10:46	11/21/12 19:37	1
Benzo[a]pyrene	ND		0.0660	0.0118	mg/Kg	☼	11/17/12 10:46	11/21/12 19:37	1
Benzo[b]fluoranthene	ND		0.0660	0.0118	mg/Kg	☼	11/17/12 10:46	11/21/12 19:37	1
Benzo[g,h,i]perylene	ND		0.0660	0.00886	mg/Kg	☼	11/17/12 10:46	11/21/12 19:37	1
Benzo[k]fluoranthene	ND		0.0660	0.0138	mg/Kg	☼	11/17/12 10:46	11/21/12 19:37	1
1-Methylnaphthalene	ND		0.0660	0.0138	mg/Kg	☼	11/17/12 10:46	11/21/12 19:37	1
Pyrene	ND		0.0660	0.0118	mg/Kg	☼	11/17/12 10:46	11/21/12 19:37	1
Phenanthrene	ND		0.0660	0.00886	mg/Kg	☼	11/17/12 10:46	11/21/12 19:37	1
Chrysene	ND		0.0660	0.00886	mg/Kg	☼	11/17/12 10:46	11/21/12 19:37	1
Dibenz(a,h)anthracene	ND		0.0660	0.00689	mg/Kg	☼	11/17/12 10:46	11/21/12 19:37	1
Fluoranthene	ND		0.0660	0.00886	mg/Kg	☼	11/17/12 10:46	11/21/12 19:37	1
Fluorene	ND		0.0660	0.0118	mg/Kg	☼	11/17/12 10:46	11/21/12 19:37	1
Indeno[1,2,3-cd]pyrene	ND		0.0660	0.00985	mg/Kg	☼	11/17/12 10:46	11/21/12 19:37	1
Naphthalene	ND		0.0660	0.00886	mg/Kg	☼	11/17/12 10:46	11/21/12 19:37	1
2-Methylnaphthalene	ND		0.0660	0.0158	mg/Kg	☼	11/17/12 10:46	11/21/12 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	50		29 - 120	11/17/12 10:46	11/21/12 19:37	1
Terphenyl-d14 (Surr)	68		13 - 120	11/17/12 10:46	11/21/12 19:37	1
Nitrobenzene-d5 (Surr)	48		27 - 120	11/17/12 10:46	11/21/12 19:37	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96		0.10	0.10	%			11/14/12 09:08	1

TestAmerica Nashville

# Client Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-11468-1

**Client Sample ID: 1134 Iris**

**Lab Sample ID: 490-11468-5**

Date Collected: 11/08/12 14:15

Matrix: Soil

Date Received: 11/13/12 17:41

Percent Solids: 91.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0977	0.0327	mg/Kg	☼	11/14/12 14:09	11/16/12 01:36	1
Ethylbenzene	ND		0.0977	0.0327	mg/Kg	☼	11/14/12 14:09	11/16/12 01:36	1
Naphthalene	ND		0.244	0.0831	mg/Kg	☼	11/14/12 14:09	11/16/12 01:36	1
Toluene	ND		0.0977	0.0362	mg/Kg	☼	11/14/12 14:09	11/16/12 01:36	1
Xylenes, Total	ND		0.244	0.0327	mg/Kg	☼	11/14/12 14:09	11/16/12 01:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130	11/14/12 14:09	11/16/12 01:36	1
4-Bromofluorobenzene (Surr)	98		70 - 130	11/14/12 14:09	11/16/12 01:36	1
Dibromofluoromethane (Surr)	101		70 - 130	11/14/12 14:09	11/16/12 01:36	1
Toluene-d8 (Surr)	90		70 - 130	11/14/12 14:09	11/16/12 01:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0666	0.00994	mg/Kg	☼	11/17/12 10:46	11/21/12 20:00	1
Acenaphthylene	ND		0.0666	0.00895	mg/Kg	☼	11/17/12 10:46	11/21/12 20:00	1
Anthracene	ND		0.0666	0.00895	mg/Kg	☼	11/17/12 10:46	11/21/12 20:00	1
Benzo[a]anthracene	ND		0.0666	0.0149	mg/Kg	☼	11/17/12 10:46	11/21/12 20:00	1
Benzo[a]pyrene	ND		0.0666	0.0119	mg/Kg	☼	11/17/12 10:46	11/21/12 20:00	1
Benzo[b]fluoranthene	ND		0.0666	0.0119	mg/Kg	☼	11/17/12 10:46	11/21/12 20:00	1
Benzo[g,h,i]perylene	ND		0.0666	0.00895	mg/Kg	☼	11/17/12 10:46	11/21/12 20:00	1
Benzo[k]fluoranthene	ND		0.0666	0.0139	mg/Kg	☼	11/17/12 10:46	11/21/12 20:00	1
1-Methylnaphthalene	ND		0.0666	0.0139	mg/Kg	☼	11/17/12 10:46	11/21/12 20:00	1
Pyrene	ND		0.0666	0.0119	mg/Kg	☼	11/17/12 10:46	11/21/12 20:00	1
Phenanthrene	ND		0.0666	0.00895	mg/Kg	☼	11/17/12 10:46	11/21/12 20:00	1
Chrysene	ND		0.0666	0.00895	mg/Kg	☼	11/17/12 10:46	11/21/12 20:00	1
Dibenz(a,h)anthracene	ND		0.0666	0.00696	mg/Kg	☼	11/17/12 10:46	11/21/12 20:00	1
Fluoranthene	ND		0.0666	0.00895	mg/Kg	☼	11/17/12 10:46	11/21/12 20:00	1
Fluorene	ND		0.0666	0.0119	mg/Kg	☼	11/17/12 10:46	11/21/12 20:00	1
Indeno[1,2,3-cd]pyrene	ND		0.0666	0.00994	mg/Kg	☼	11/17/12 10:46	11/21/12 20:00	1
Naphthalene	ND		0.0666	0.00895	mg/Kg	☼	11/17/12 10:46	11/21/12 20:00	1
2-Methylnaphthalene	ND		0.0666	0.0159	mg/Kg	☼	11/17/12 10:46	11/21/12 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	52		29 - 120	11/17/12 10:46	11/21/12 20:00	1
Terphenyl-d14 (Surr)	64		13 - 120	11/17/12 10:46	11/21/12 20:00	1
Nitrobenzene-d5 (Surr)	49		27 - 120	11/17/12 10:46	11/21/12 20:00	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92		0.10	0.10	%			11/14/12 09:08	1

TestAmerica Nashville



# Client Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-11468-1

**Client Sample ID: 1143 Iris**

**Lab Sample ID: 490-11468-6**

Date Collected: 11/08/12 14:45

Matrix: Soil

Date Received: 11/13/12 17:41

Percent Solids: 71.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00267	0.000893	mg/Kg	✱	11/14/12 14:09	11/16/12 08:24	1
Ethylbenzene	ND		0.00267	0.000893	mg/Kg	✱	11/14/12 14:09	11/16/12 08:24	1
Naphthalene	ND		0.430	0.146	mg/Kg	✱	11/14/12 14:07	11/16/12 08:56	1
Toluene	ND		0.00267	0.000986	mg/Kg	✱	11/14/12 14:09	11/16/12 08:24	1
<b>Xylenes, Total</b>	<b>0.00586</b>	<b>J</b>	0.00666	0.000893	mg/Kg	✱	11/14/12 14:09	11/16/12 08:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130	11/14/12 14:09	11/16/12 08:24	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 130	11/14/12 14:07	11/16/12 08:56	1
4-Bromofluorobenzene (Surr)	144	X	70 - 130	11/14/12 14:09	11/16/12 08:24	1
4-Bromofluorobenzene (Surr)	96		70 - 130	11/14/12 14:07	11/16/12 08:56	1
Dibromofluoromethane (Surr)	102		70 - 130	11/14/12 14:09	11/16/12 08:24	1
Dibromofluoromethane (Surr)	90		70 - 130	11/14/12 14:07	11/16/12 08:56	1
Toluene-d8 (Surr)	106		70 - 130	11/14/12 14:09	11/16/12 08:24	1
Toluene-d8 (Surr)	89		70 - 130	11/14/12 14:07	11/16/12 08:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0652	0.00973	mg/Kg	✱	11/17/12 10:46	11/21/12 20:23	1
Acenaphthylene	ND		0.0652	0.00875	mg/Kg	✱	11/17/12 10:46	11/21/12 20:23	1
Anthracene	ND		0.0652	0.00875	mg/Kg	✱	11/17/12 10:46	11/21/12 20:23	1
Benzo[a]anthracene	ND		0.0652	0.0146	mg/Kg	✱	11/17/12 10:46	11/21/12 20:23	1
Benzo[a]pyrene	ND		0.0652	0.0117	mg/Kg	✱	11/17/12 10:46	11/21/12 20:23	1
Benzo[b]fluoranthene	ND		0.0652	0.0117	mg/Kg	✱	11/17/12 10:46	11/21/12 20:23	1
Benzo[g,h,i]perylene	ND		0.0652	0.00875	mg/Kg	✱	11/17/12 10:46	11/21/12 20:23	1
Benzo[k]fluoranthene	ND		0.0652	0.0136	mg/Kg	✱	11/17/12 10:46	11/21/12 20:23	1
1-Methylnaphthalene	ND		0.0652	0.0136	mg/Kg	✱	11/17/12 10:46	11/21/12 20:23	1
Pyrene	ND		0.0652	0.0117	mg/Kg	✱	11/17/12 10:46	11/21/12 20:23	1
Phenanthrene	ND		0.0652	0.00875	mg/Kg	✱	11/17/12 10:46	11/21/12 20:23	1
Chrysene	ND		0.0652	0.00875	mg/Kg	✱	11/17/12 10:46	11/21/12 20:23	1
Dibenz(a,h)anthracene	ND		0.0652	0.00681	mg/Kg	✱	11/17/12 10:46	11/21/12 20:23	1
Fluoranthene	ND		0.0652	0.00875	mg/Kg	✱	11/17/12 10:46	11/21/12 20:23	1
Fluorene	ND		0.0652	0.0117	mg/Kg	✱	11/17/12 10:46	11/21/12 20:23	1
Indeno[1,2,3-cd]pyrene	ND		0.0652	0.00973	mg/Kg	✱	11/17/12 10:46	11/21/12 20:23	1
Naphthalene	ND		0.0652	0.00875	mg/Kg	✱	11/17/12 10:46	11/21/12 20:23	1
2-Methylnaphthalene	ND		0.0652	0.0156	mg/Kg	✱	11/17/12 10:46	11/21/12 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	47		29 - 120	11/17/12 10:46	11/21/12 20:23	1
Terphenyl-d14 (Surr)	68		13 - 120	11/17/12 10:46	11/21/12 20:23	1
Nitrobenzene-d5 (Surr)	46		27 - 120	11/17/12 10:46	11/21/12 20:23	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	71		0.10	0.10	%			11/14/12 09:08	1

TestAmerica Nashville



# QC Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-11468-1

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

Lab Sample ID: MB 490-36345/7

Matrix: Solid

Analysis Batch: 36345

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.100	0.0335	mg/Kg			11/15/12 19:51	1
Ethylbenzene	ND		0.100	0.0335	mg/Kg			11/15/12 19:51	1
Naphthalene	ND		0.250	0.0850	mg/Kg			11/15/12 19:51	1
Toluene	ND		0.100	0.0370	mg/Kg			11/15/12 19:51	1
Xylenes, Total	ND		0.250	0.0335	mg/Kg			11/15/12 19:51	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		11/15/12 19:51	1
4-Bromofluorobenzene (Surr)	94		70 - 130		11/15/12 19:51	1
Dibromofluoromethane (Surr)	94		70 - 130		11/15/12 19:51	1
Toluene-d8 (Surr)	90		70 - 130		11/15/12 19:51	1

Lab Sample ID: LCS 490-36345/3

Matrix: Solid

Analysis Batch: 36345

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Benzene	0.0500	0.05030		mg/Kg		101	75 - 127
Ethylbenzene	0.0500	0.04783		mg/Kg		96	80 - 134
Naphthalene	0.0500	0.04962		mg/Kg		99	69 - 150
Toluene	0.0500	0.04840		mg/Kg		97	80 - 132
Xylenes, Total	0.150	0.1454		mg/Kg		97	80 - 137

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: LCSD 490-36345/4

Matrix: Solid

Analysis Batch: 36345

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
		Result	Qualifier						
Benzene	0.0500	0.05127		mg/Kg		103	75 - 127	2	50
Ethylbenzene	0.0500	0.04747		mg/Kg		95	80 - 134	1	50
Naphthalene	0.0500	0.04891		mg/Kg		98	69 - 150	1	50
Toluene	0.0500	0.04790		mg/Kg		96	80 - 132	1	50
Xylenes, Total	0.150	0.1451		mg/Kg		97	80 - 137	0	50

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	91		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
Toluene-d8 (Surr)	93		70 - 130

TestAmerica Nashville

# QC Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-11468-1

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

Lab Sample ID: MB 490-36624/6

Matrix: Solid

Analysis Batch: 36624

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.00200	0.000670	mg/Kg			11/16/12 06:20	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			11/16/12 06:20	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			11/16/12 06:20	1
Toluene	ND		0.00200	0.000740	mg/Kg			11/16/12 06:20	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			11/16/12 06:20	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		11/16/12 06:20	1
4-Bromofluorobenzene (Surr)	97		70 - 130		11/16/12 06:20	1
Dibromofluoromethane (Surr)	101		70 - 130		11/16/12 06:20	1
Toluene-d8 (Surr)	91		70 - 130		11/16/12 06:20	1

Lab Sample ID: MB 490-36624/7

Matrix: Solid

Analysis Batch: 36624

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.100	0.0335	mg/Kg			11/16/12 06:51	1
Ethylbenzene	ND		0.100	0.0335	mg/Kg			11/16/12 06:51	1
Naphthalene	ND		0.250	0.0850	mg/Kg			11/16/12 06:51	1
Toluene	ND		0.100	0.0370	mg/Kg			11/16/12 06:51	1
Xylenes, Total	ND		0.250	0.0335	mg/Kg			11/16/12 06:51	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		11/16/12 06:51	1
4-Bromofluorobenzene (Surr)	94		70 - 130		11/16/12 06:51	1
Dibromofluoromethane (Surr)	85		70 - 130		11/16/12 06:51	1
Toluene-d8 (Surr)	89		70 - 130		11/16/12 06:51	1

Lab Sample ID: LCS 490-36624/3

Matrix: Solid

Analysis Batch: 36624

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Benzene	0.0500	0.05415		mg/Kg		108	75 - 127
Ethylbenzene	0.0500	0.05439		mg/Kg		109	80 - 134
Naphthalene	0.0500	0.05286		mg/Kg		106	69 - 150
Toluene	0.0500	0.05217		mg/Kg		104	80 - 132
Xylenes, Total	0.150	0.1653		mg/Kg		110	80 - 137

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	93		70 - 130

TestAmerica Nashville



# QC Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-11468-1

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

Lab Sample ID: LCSD 490-36624/4

Matrix: Solid

Analysis Batch: 36624

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.04977		mg/Kg		100	75 - 127	8	50
Ethylbenzene	0.0500	0.04927		mg/Kg		99	80 - 134	10	50
Naphthalene	0.0500	0.05198		mg/Kg		104	69 - 150	2	50
Toluene	0.0500	0.04688		mg/Kg		94	80 - 132	11	50
Xylenes, Total	0.150	0.1491		mg/Kg		99	80 - 137	10	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
Toluene-d8 (Surr)	91		70 - 130

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

Lab Sample ID: MB 490-37031/1-A

Matrix: Solid

Analysis Batch: 38069

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37031

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		11/17/12 10:46	11/21/12 16:55	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		11/17/12 10:46	11/21/12 16:55	1
Anthracene	ND		0.0670	0.00900	mg/Kg		11/17/12 10:46	11/21/12 16:55	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		11/17/12 10:46	11/21/12 16:55	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		11/17/12 10:46	11/21/12 16:55	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		11/17/12 10:46	11/21/12 16:55	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		11/17/12 10:46	11/21/12 16:55	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		11/17/12 10:46	11/21/12 16:55	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		11/17/12 10:46	11/21/12 16:55	1
Pyrene	ND		0.0670	0.0120	mg/Kg		11/17/12 10:46	11/21/12 16:55	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		11/17/12 10:46	11/21/12 16:55	1
Chrysene	ND		0.0670	0.00900	mg/Kg		11/17/12 10:46	11/21/12 16:55	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		11/17/12 10:46	11/21/12 16:55	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		11/17/12 10:46	11/21/12 16:55	1
Fluorene	ND		0.0670	0.0120	mg/Kg		11/17/12 10:46	11/21/12 16:55	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		11/17/12 10:46	11/21/12 16:55	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		11/17/12 10:46	11/21/12 16:55	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		11/17/12 10:46	11/21/12 16:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	58		29 - 120	11/17/12 10:46	11/21/12 16:55	1
Terphenyl-d14 (Surr)	76		13 - 120	11/17/12 10:46	11/21/12 16:55	1
Nitrobenzene-d5 (Surr)	59		27 - 120	11/17/12 10:46	11/21/12 16:55	1

TestAmerica Nashville

# QC Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-11468-1

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

Lab Sample ID: LCS 490-37031/2-A

Matrix: Solid

Analysis Batch: 38069

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 37031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	1.67	1.193		mg/Kg		72	38 - 120
Anthracene	1.67	1.152		mg/Kg		69	46 - 124
Benzo[a]anthracene	1.67	1.143		mg/Kg		69	45 - 120
Benzo[a]pyrene	1.67	1.184		mg/Kg		71	45 - 120
Benzo[b]fluoranthene	1.67	1.156		mg/Kg		69	42 - 120
Benzo[g,h,i]perylene	1.67	1.103		mg/Kg		66	38 - 120
Benzo[k]fluoranthene	1.67	1.113		mg/Kg		67	42 - 120
1-Methylnaphthalene	1.67	1.020		mg/Kg		61	32 - 120
Pyrene	1.67	1.168		mg/Kg		70	43 - 120
Phenanthrene	1.67	1.133		mg/Kg		68	45 - 120
Chrysene	1.67	1.117		mg/Kg		67	43 - 120
Dibenz(a,h)anthracene	1.67	1.101		mg/Kg		66	32 - 128
Fluoranthene	1.67	1.138		mg/Kg		68	46 - 120
Fluorene	1.67	1.120		mg/Kg		67	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.103		mg/Kg		66	41 - 121
Naphthalene	1.67	1.083		mg/Kg		65	32 - 120
2-Methylnaphthalene	1.67	1.036		mg/Kg		62	28 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	54		29 - 120
Terphenyl-d14 (Surr)	65		13 - 120
Nitrobenzene-d5 (Surr)	50		27 - 120

Lab Sample ID: 490-11468-1 MS

Matrix: Soil

Analysis Batch: 38069

Client Sample ID: 516 Laurel Bay

Prep Type: Total/NA

Prep Batch: 37031

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	ND		1.66	1.374		mg/Kg	☼	83	25 - 120
Anthracene	ND		1.66	1.286		mg/Kg	☼	78	28 - 125
Benzo[a]anthracene	ND		1.66	1.314		mg/Kg	☼	79	23 - 120
Benzo[a]pyrene	0.0362	J	1.66	1.322		mg/Kg	☼	78	15 - 128
Benzo[b]fluoranthene	ND		1.66	1.340		mg/Kg	☼	81	12 - 133
Benzo[g,h,i]perylene	ND		1.66	1.327		mg/Kg	☼	80	22 - 120
Benzo[k]fluoranthene	ND		1.66	1.258		mg/Kg	☼	76	28 - 120
1-Methylnaphthalene	ND		1.66	1.146		mg/Kg	☼	69	10 - 120
Pyrene	ND		1.66	1.373		mg/Kg	☼	83	20 - 123
Phenanthrene	ND		1.66	1.329		mg/Kg	☼	80	21 - 122
Chrysene	ND		1.66	1.301		mg/Kg	☼	78	20 - 120
Dibenz(a,h)anthracene	ND		1.66	1.286		mg/Kg	☼	78	12 - 128
Fluoranthene	ND		1.66	1.319		mg/Kg	☼	80	10 - 143
Fluorene	ND		1.66	1.328		mg/Kg	☼	80	20 - 120
Indeno[1,2,3-cd]pyrene	ND		1.66	1.297		mg/Kg	☼	78	22 - 121
Naphthalene	ND		1.66	1.241		mg/Kg	☼	75	10 - 120
2-Methylnaphthalene	ND		1.66	1.182		mg/Kg	☼	71	13 - 120

TestAmerica Nashville



## QC Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-11468-1

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

Lab Sample ID: 490-11468-1 MS

Matrix: Soil

Analysis Batch: 38069

Client Sample ID: 516 Laurel Bay

Prep Type: Total/NA

Prep Batch: 37031

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	61		29 - 120
Terphenyl-d14 (Surr)	79		13 - 120
Nitrobenzene-d5 (Surr)	53		27 - 120

Lab Sample ID: 490-11468-1 MSD

Matrix: Soil

Analysis Batch: 38069

Client Sample ID: 516 Laurel Bay

Prep Type: Total/NA

Prep Batch: 37031

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthylene	ND		1.62	1.289		mg/Kg	⊗	80	25 - 120	6	50
Anthracene	ND		1.62	1.190		mg/Kg	⊗	74	28 - 125	8	49
Benzo[a]anthracene	ND		1.62	1.218		mg/Kg	⊗	75	23 - 120	8	50
Benzo[a]pyrene	0.0362	J	1.62	1.254		mg/Kg	⊗	75	15 - 128	5	50
Benzo[b]fluoranthene	ND		1.62	1.256		mg/Kg	⊗	78	12 - 133	7	50
Benzo[g,h,i]perylene	ND		1.62	1.233		mg/Kg	⊗	76	22 - 120	7	50
Benzo[k]fluoranthene	ND		1.62	1.171		mg/Kg	⊗	72	28 - 120	7	45
1-Methylnaphthalene	ND		1.62	1.079		mg/Kg	⊗	67	10 - 120	6	50
Pyrene	ND		1.62	1.288		mg/Kg	⊗	80	20 - 123	6	50
Phenanthrene	ND		1.62	1.220		mg/Kg	⊗	75	21 - 122	9	50
Chrysene	ND		1.62	1.182		mg/Kg	⊗	73	20 - 120	10	49
Dibenz(a,h)anthracene	ND		1.62	1.226		mg/Kg	⊗	76	12 - 128	5	50
Fluoranthene	ND		1.62	1.236		mg/Kg	⊗	76	10 - 143	7	50
Fluorene	ND		1.62	1.226		mg/Kg	⊗	76	20 - 120	8	50
Indeno[1,2,3-cd]pyrene	ND		1.62	1.225		mg/Kg	⊗	76	22 - 121	6	50
Naphthalene	ND		1.62	1.142		mg/Kg	⊗	71	10 - 120	8	50
2-Methylnaphthalene	ND		1.62	1.099		mg/Kg	⊗	68	13 - 120	7	50

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	59		29 - 120
Terphenyl-d14 (Surr)	78		13 - 120
Nitrobenzene-d5 (Surr)	53		27 - 120

### Method: Moisture - Percent Moisture

Lab Sample ID: 250-7878-A-1 DU

Matrix: Solid

Analysis Batch: 35937

Client Sample ID: Duplicate

Prep Type: Total/NA

	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Analyte								
Percent Solids	94		92		%		1	20

TestAmerica Nashville



## QC Association Summary

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-11468-1

### GC/MS VOA

#### Prep Batch: 36161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-11468-6	1143 Iris	Total/NA	Soil	5035	

#### Prep Batch: 36162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-11468-1	516 Laurel Bay	Total/NA	Soil	5035	
490-11468-2	873 Cobia	Total/NA	Soil	5035	
490-11468-3	1037 Iris	Total/NA	Soil	5035	
490-11468-4	723 Bluebell	Total/NA	Soil	5035	
490-11468-5	1134 Iris	Total/NA	Soil	5035	
490-11468-6	1143 Iris	Total/NA	Soil	5035	

#### Analysis Batch: 36345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-11468-1	516 Laurel Bay	Total/NA	Soil	8260B	36162
490-11468-2	873 Cobia	Total/NA	Soil	8260B	36162
490-11468-3	1037 Iris	Total/NA	Soil	8260B	36162
490-11468-4	723 Bluebell	Total/NA	Soil	8260B	36162
490-11468-5	1134 Iris	Total/NA	Soil	8260B	36162
LCS 490-36345/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-36345/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-36345/7	Method Blank	Total/NA	Solid	8260B	

#### Analysis Batch: 36624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-11468-6	1143 Iris	Total/NA	Soil	8260B	36162
490-11468-6	1143 Iris	Total/NA	Soil	8260B	36161
LCS 490-36624/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-36624/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-36624/6	Method Blank	Total/NA	Solid	8260B	
MB 490-36624/7	Method Blank	Total/NA	Solid	8260B	

### GC/MS Semi VOA

#### Prep Batch: 37031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-11468-1	516 Laurel Bay	Total/NA	Soil	3550C	
490-11468-1 MS	516 Laurel Bay	Total/NA	Soil	3550C	
490-11468-1 MSD	516 Laurel Bay	Total/NA	Soil	3550C	
490-11468-2	873 Cobia	Total/NA	Soil	3550C	
490-11468-3	1037 Iris	Total/NA	Soil	3550C	
490-11468-4	723 Bluebell	Total/NA	Soil	3550C	
490-11468-5	1134 Iris	Total/NA	Soil	3550C	
490-11468-6	1143 Iris	Total/NA	Soil	3550C	
LCS 490-37031/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-37031/1-A	Method Blank	Total/NA	Solid	3550C	

#### Analysis Batch: 38069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-11468-1	516 Laurel Bay	Total/NA	Soil	8270D	37031
490-11468-1 MS	516 Laurel Bay	Total/NA	Soil	8270D	37031

TestAmerica Nashville

## QC Association Summary

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-11468-1

### GC/MS Semi VOA (Continued)

#### Analysis Batch: 38069 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-11468-1 MSD	516 Laurel Bay	Total/NA	Soil	8270D	37031
490-11468-2	873 Cobia	Total/NA	Soil	8270D	37031
490-11468-3	1037 Iris	Total/NA	Soil	8270D	37031
490-11468-4	723 Bluebell	Total/NA	Soil	8270D	37031
490-11468-5	1134 Iris	Total/NA	Soil	8270D	37031
490-11468-6	1143 Iris	Total/NA	Soil	8270D	37031
LCS 490-37031/2-A	Lab Control Sample	Total/NA	Solid	8270D	37031
MB 490-37031/1-A	Method Blank	Total/NA	Solid	8270D	37031

### General Chemistry

#### Analysis Batch: 35937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
250-7878-A-1 DU	Duplicate	Total/NA	Solid	Moisture	
490-11468-1	516 Laurel Bay	Total/NA	Soil	Moisture	
490-11468-2	873 Cobia	Total/NA	Soil	Moisture	
490-11468-3	1037 Iris	Total/NA	Soil	Moisture	
490-11468-4	723 Bluebell	Total/NA	Soil	Moisture	
490-11468-5	1134 Iris	Total/NA	Soil	Moisture	
490-11468-6	1143 Iris	Total/NA	Soil	Moisture	



## Lab Chronicle

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-11468-1

### Client Sample ID: 516 Laurel Bay

Date Collected: 11/05/12 15:00

Date Received: 11/13/12 17:41

### Lab Sample ID: 490-11468-1

Matrix: Soil

Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			36162	11/14/12 14:09	ML	TAL NSH
Total/NA	Analysis	8260B		1	36345	11/15/12 23:30	AF	TAL NSH
Total/NA	Prep	3550C			37031	11/17/12 10:46	AK	TAL NSH
Total/NA	Analysis	8270D		1	38069	11/21/12 17:42	WS	TAL NSH
Total/NA	Analysis	Moisture		1	35937	11/14/12 09:08	RS	TAL NSH

### Client Sample ID: 873 Cobia

Date Collected: 11/05/12 14:45

Date Received: 11/13/12 17:41

### Lab Sample ID: 490-11468-2

Matrix: Soil

Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			36162	11/14/12 14:09	ML	TAL NSH
Total/NA	Analysis	8260B		1	36345	11/16/12 00:01	AF	TAL NSH
Total/NA	Prep	3550C			37031	11/17/12 10:46	AK	TAL NSH
Total/NA	Analysis	8270D		1	38069	11/21/12 18:51	WS	TAL NSH
Total/NA	Analysis	Moisture		1	35937	11/14/12 09:08	RS	TAL NSH

### Client Sample ID: 1037 Iris

Date Collected: 11/07/12 14:45

Date Received: 11/13/12 17:41

### Lab Sample ID: 490-11468-3

Matrix: Soil

Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			36162	11/14/12 14:09	ML	TAL NSH
Total/NA	Analysis	8260B		1	36345	11/16/12 00:33	AF	TAL NSH
Total/NA	Prep	3550C			37031	11/17/12 10:46	AK	TAL NSH
Total/NA	Analysis	8270D		1	38069	11/21/12 19:14	WS	TAL NSH
Total/NA	Analysis	Moisture		1	35937	11/14/12 09:08	RS	TAL NSH

### Client Sample ID: 723 Bluebell

Date Collected: 11/07/12 14:30

Date Received: 11/13/12 17:41

### Lab Sample ID: 490-11468-4

Matrix: Soil

Percent Solids: 96.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			36162	11/14/12 14:09	ML	TAL NSH
Total/NA	Analysis	8260B		1	36345	11/16/12 01:04	AF	TAL NSH
Total/NA	Prep	3550C			37031	11/17/12 10:46	AK	TAL NSH
Total/NA	Analysis	8270D		1	38069	11/21/12 19:37	WS	TAL NSH
Total/NA	Analysis	Moisture		1	35937	11/14/12 09:08	RS	TAL NSH

TestAmerica Nashville

## Lab Chronicle

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-11468-1

**Client Sample ID: 1134 Iris**

**Date Collected: 11/08/12 14:15**

**Date Received: 11/13/12 17:41**

**Lab Sample ID: 490-11468-5**

**Matrix: Soil**

**Percent Solids: 91.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			36162	11/14/12 14:09	ML	TAL NSH
Total/NA	Analysis	8260B		1	36345	11/16/12 01:36	AF	TAL NSH
Total/NA	Prep	3550C			37031	11/17/12 10:46	AK	TAL NSH
Total/NA	Analysis	8270D		1	38069	11/21/12 20:00	WS	TAL NSH
Total/NA	Analysis	Moisture		1	35937	11/14/12 09:08	RS	TAL NSH

**Client Sample ID: 1143 Iris**

**Date Collected: 11/08/12 14:45**

**Date Received: 11/13/12 17:41**

**Lab Sample ID: 490-11468-6**

**Matrix: Soil**

**Percent Solids: 71.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			36162	11/14/12 14:09	ML	TAL NSH
Total/NA	Analysis	8260B		1	36624	11/16/12 08:24	AF	TAL NSH
Total/NA	Prep	5035			36161	11/14/12 14:07	ML	TAL NSH
Total/NA	Analysis	8260B		1	36624	11/16/12 08:56	AF	TAL NSH
Total/NA	Prep	3550C			37031	11/17/12 10:46	AK	TAL NSH
Total/NA	Analysis	8270D		1	38069	11/21/12 20:23	WS	TAL NSH
Total/NA	Analysis	Moisture		1	35937	11/14/12 09:08	RS	TAL NSH

**Laboratory References:**

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



## Method Summary

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-11468-1

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

### Protocol References:

EPA = US Environmental Protection Agency

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

### Laboratory References:

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

## Certification Summary

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-11468-1

### Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-13
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAC	9	1168CA	10-31-13
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Colorado	State Program	8	N/A	02-28-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAC	4	E87358	06-30-13
Illinois	NELAC	5	200010	12-09-12
Iowa	State Program	7	131	05-01-14
Kansas	NELAC	7	E-10229	10-31-13
Kentucky	State Program	4	90038	12-31-12
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAC	6	LA120025	12-31-12
Louisiana	NELAC	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAC	5	047-999-345	12-31-12
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAC	1	2963	10-09-13
New Jersey	NELAC	2	TN965	06-30-13
New York	NELAC	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-12
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-13
Oregon	NELAC	10	TN200001	04-30-13
Pennsylvania	NELAC	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-12
South Carolina	State Program	4	84009 (001)	02-28-13
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAC	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAC	8	TAN	06-30-13
Virginia	NELAC	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-13
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13



## COOLER RECEIPT FORM



490-11468 Chain of Custody

Cooler Received/Opened On 11/13/2012 @ 0830

1. Tracking # 2536 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 0.6 Degrees Celsius

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

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

If yes, how many and where: (2) Front / Back

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

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

I certify that I opened the cooler and answered questions 1-6 (initial) UA

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

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

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

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

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

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

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

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

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

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

I certify that I unloaded the cooler and answered questions 7-14 (initial) DA

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

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

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

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

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

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

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

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

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

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

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



THE LEADER IN ENVIRONMENTAL TESTING

**Nashville Division**  
2960 Foster Creighton  
Nashville, TN 37204

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

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

**Address:** 10179 Highway 78

City/State/Zip: Ladson, SC 29456

**Project Manager:** Tom McElwee email: [mcelwee@eeginc.net](mailto:mcelwee@eeginc.net)

Telephone Number: 843.412.2097

**Sampler Name: (Print)**

**Sampler Signature:**

Fax No.: 843 879-0410

Site State: SC

PO#:

**TA Quote #:**

**Project ID:** Laurel Bay Housing Project

Project #:

**Compliance Monitoring?**  
**Enforcement Action?**

Yes	No
Yes	No

Loc: 490  
11468

Page 24 of 25

11/24/2012

[illegible]



## Login Sample Receipt Checklist

Client: Environmental Enterprise Group

Job Number: 490-11468-1

Login Number: 11468

List Source: TestAmerica Nashville

List Number: 1

Creator: Armstrong, Daniel

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT A



# NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	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		Generator's Site Address (if different than mailing):		A. Manifest Number <b>WMNA</b> 00316840				
4. Generator's Phone 843-228-6461		5. Transporter 1 Company Name EEG, INC.		6. US EPA ID Number		B. State Generator's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		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			
				G. State Facility ID		H. State Facility Phone 843-987-4643			
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments		
	a. HEATING OIL TANKS FILLED WITH SAND  WM Profile # 102655SC		No.	Type					
	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 1) 57'S (Rm: 2) 1103 IRIS 4) 841 AZALEA 6) 576 Laurel Bay D) 1102 IRIS-2 3) 1345 CARDINAL 5) 1004 Bobwh. Jr									
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		Signature "On behalf of"			Month	Day	Year		
JAMES BALDWIN		James Baldwin			12	4	12		
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name		Signature		Month	Day	Year
	JAMES BALDWIN		James Baldwin		James Baldwin		12	6	12
FACILITY	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		Signature			Month	Day	Year		
Tom Colwell		Tom Colwell			12	6	12		

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY

**Appendix C**  
**Laboratory Analytical Report - Groundwater**

# Volatile Organic Compounds by GC/MS

Client: <b>AECOM - Resolution Consultants</b>	Laboratory ID: <b>QF10006-015</b>
Description: <b>BEALB516TW01WG20150610</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>06/10/2015 0920</b>	
Date Received: <b>06/11/2015</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/16/2015 0424	PMM2		77325

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzene	71-43-2	8260B	0.45	U	5.0	0.45	0.21	ug/L	1
Ethylbenzene	100-41-4	8260B	0.51	U	5.0	0.51	0.21	ug/L	1
Naphthalene	91-20-3	8260B	0.96	U	5.0	0.96	0.14	ug/L	1
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	0.19	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		87	75-120
1,2-Dichloroethane-d4		90	70-120
Toluene-d8		89	85-120
Dibromofluoromethane		87	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

Shealy Environmental Services, Inc.  
 106 Vantage Point Drive   West Columbia, SC 29172   (803) 791-9700   Fax (803) 791-9111   www.shealylab.com

Level 1 Report v2.1

# Semivolatile Organic Compounds by GC/MS (SIM)

Client: <b>AECOM - Resolution Consultants</b>	Laboratory ID: <b>QF10006-015</b>
Description: <b>BEALB516TW01WG20150610</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>06/10/2015 0920</b>	
Date Received: <b>06/11/2015</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D (SIM)	1	06/19/2015 1933	RBH	06/11/2015 1657	77073

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzo(a)anthracene	56-55-3	8270D (SIM)	0.040	U	0.20	0.040	0.019	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D (SIM)	0.040	U	0.20	0.040	0.019	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D (SIM)	0.040	U	0.20	0.040	0.024	ug/L	1
Chrysene	218-01-9	8270D (SIM)	0.040	U	0.20	0.040	0.021	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D (SIM)	0.080	U	0.20	0.080	0.040	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Methylnaphthalene-d10		60	15-139
Fluoranthene-d10		75	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

Shealy Environmental Services, Inc.  
 106 Vantage Point Drive   West Columbia, SC 29172   (803) 791-9700   Fax (803) 791-9111   www.shealylab.com

Level 1 Report v2.1

## **Appendix D**

### **Regulatory Correspondence**

BOARD:  
Elizabeth M. Hagood  
Chairman  
Edwin H. Cooper, III  
Vice Chairman  
Steven G. Kisner  
Secretary



C. Earl Hunter, Commissioner

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

BOARD:  
Henry C. Scott  
Paul C. Aughtry, III  
Glenn A. McCall  
Coleman F. Buckhouse, MD

2 November 2007

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

Re: MCAS – Laurel Bay Housing – 516 Laurel Bay Blvd  
Site ID # 03747  
UST Closure Reports received 15 August 2007  
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 sampling proposal be generated for this site.

Please submit a groundwater sampling proposal to conduct the necessary assessment and/or remedial measures at this site no later than 29 February 2007. 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  
United States Marine Corps Air Station, Commanding Officer, Attention: S-4 NREAO (William Drawdy), P.O.  
Box 55001, Beaufort, SC 29904-5001  
Technical File



# D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

May 15, 2014

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 above 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)

# D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

**Attachment to:** Krieg to Drawdy  
**Subject:** IGWA  
**Dated** 5/15/2014

## Laurel Bay Underground Storage Tank Assessment Reports for: (121 addresses/139 tanks)

137 Laurel Bay Tank 2	387 Acorn
139 Laurel Bay	392 Acorn Tank 2
229 Cypress Tank 2	396 Acorn Tank 1
261 Beech Tank 1	396 Acorn Tank 2
261 Beech Tank 3	430 Elderberry
273 Birch Tank 1	433 Elderberry
273 Birch Tank 2	439 Elderberry
273 Birch Tank 3	440 Elderberry
276 Birch Tank 2	442 Elderberry
278 Birch Tank 2	443 Elderberry
291 Birch Tank 2	444 Elderberry Tank 1
300 Ash	445 Elderberry
304 Ash	446 Elderberry
314 Ash Tank 1	448 Elderberry
314 Ash Tank 2	449 Elderberry
322 Ash Tank 2	451 Elderberry
323 Ash	453 Elderberry
324 Ash	456 Elderberry Tank 1
325 Ash Tank 1	456 Elderberry Tank 2
325 Ash Tank 2	458 Elderberry Tank 1
326 Ash	458 Elderberry Tank 3
336 Ash	464 Dogwood
339 Ash	466 Dogwood
343 Ash Tank 1	467 Dogwood
344 Ash Tank 1	468 Dogwood
348 Ash	469 Dogwood
349 Ash Tank 1	471 Dogwood Tank 2
353 Ash Tank 1	471 Dogwood Tank 3
362 Aspen	475 Dogwood Tank 1
376 Aspen	475 Dogwood Tank 2
380 Aspen	516 Laurel Bay Tank 1 (UST#03747)
383 Aspen Tank 2	518 Laurel Bay



Laurel Bay Underground Storage Tank Assessment Reports for: (121 addresses/139 tanks) cont.

531 Laurel Bay	1219 Cardinal
532 Laurel Bay	1272 Albatross
635 Dahlia Tank 2	1305 Eagle
638 Dahlia	1353 Cardinal
640 Dahlia Tank 1	1356 Cardinal
640 Dahlia Tank 2	1357 Cardinal
645 Dahlia	1359 Cardinal
647 Dahlia	1360 Cardinal
648 Dahlia Tank 2	1361 Cardinal
650 Dahlia Tank 1	1368 Cardinal
650 Dahlia Tank 2	1370 Cardinal Tank 1
652 Dahlia Tank 1	1377 Dove
652 Dahlia Tank 2	1381 Dove
760 Althea	1382 Dove
763 Althea	1384 Dove
771 Althea	1385 Dove
927 Albacore	1389 Dove
1015 Foxglove	1391 Dove
1046 Gardenia	1392 Dove
1062 Gardenia Tank 2	1393 Dove Tank 1
1070 Heather	1393 Dove Tank 2
1072 Heather	1406 Eagle
1102 Iris Tank 1	1407 Eagle Tank 1
1107 Iris	1411 Eagle Tank 1
1126 Iris	1411 Eagle Tank 2
1129 Iris	1412 Eagle
1132 Iris	1413 Albatross
1133 Iris Tank 1	1414 Albatross
1138 Iris	1422 Albatross
1144 Iris Tank 1	1425 Albatross
1144 Iris Tank 2	1426 Albatross
1148 Iris Tank 1	1432 Dove
1148 Iris Tank 2	1434 Dove
1161 Jasmine	1436 Dove
1167 Jasmine	1438 Dove Tank 1
1170 Jasmine	1440 Dove
1190 Bobwhite	1442 Dove Tank 1
1192 Bobwhite	



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

February 22, 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-May and June 2015  
Laurel Bay Military Housing Area Multiple Properties  
Dated October 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 addresses attached. 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 52 stated addresses. For the remaining 91 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)

Attachment to: Petrus to Drawdy  
 Subject: Draft Final Initial Groundwater Investigation Report-May and June 2015  
 Specific Property Recommendations  
 Dated February 22, 2016

**Draft Final Initial Groundwater Investigation Report for (143 addresses)**

**Permanent Monitoring Well Investigation recommendation (52 addresses)**

273 Birch Drive	1192 Bobwhite Drive
325 Ash Street	1194 Bobwhite Drive
326 Ash Street	1272 Albatross Drive
336 Ash Street	1352 Cardinal Lane
343 Ash Street	1356 Cardinal Lane
353 Ash Street	1359 Cardinal Lane
430 Elderberry Drive	1360 Cardinal Lane
440 Elderberry Drive	1362 Cardinal Lane
456 Elderberry Drive	1370 Cardinal Lane
458 Elderberry Drive	1382 Dove Lane
468 Dogwood Drive	1384 Dove lane
518 Laurel Bay Blvd	1385 Dove Lane
635 Dahlia Drive	1389 Dove Lane
638 Dahlia Drive	1392 Dove Lane
640 Dahlia Drive	1393 Dove Lane
647 Dahlia Drive	1407 Eagle Lane
648 Dahlia Drive	1411 Eagle Lane
650 Dahlia Drive	1418 Albatross Drive
652 Dahlia Drive	1420 Albatross Drive
760 Althea Street	1426 Albatross Drive
1102 Iris Lane	1429 Albatross Drive
1132 Iris Lane	1434 Dove Lane
1133 Iris Lane	1436 Dove Lane
1144 Iris Lane	1440 Dove Lane
1148 Iris Lane	1442 Dove Lane
1186 Bobwhite Drive	1444 Dove Lane

**No Further Action recommendation (91 addresses):**

137 Laurel Bay Blvd	771 Althea Street
139 Laurel Bay Blvd	927 Albacore Street
229 Cypress Street	1015 Foxglove Street
261 Beech Street	1046 Gardenia Drive
276 Birch Drive	1062 Gardenia Drive
278 Birch Drive	1070 Heather Street
291 Birch Drive	1072 Heather Street



300 Ash Street	1107 Iris Lane
304 Ash Street	1126 Iris Lane
314 Ash Street	1129 Iris Lane
322 Ash Street	1138 Iris Lane
323 Ash Street	1161 Jasmine Street
324 Ash Street	1167 Jasmine Street
339 Ash Street	1170 Jasmine Street
344 Ash Street	1190 Bobwhite Drive
348 Ash Street	1219 Cardinal Lane
349 Ash Street	1305 Eagle Lane
362 Aspen Street	1353 Cardinal Lane
376 Aspen Street	1354 Cardinal Lane
380 Aspen Street	1357 Cardinal Lane
383 Aspen Street	1361 Cardinal Lane
387 Acorn Drive	1364 Cardinal Lane
392 Acorn Drive	1368 Cardinal Lane
396 Acorn Drive	1377 Dove Lane
433 Elderberry Drive	1381 Dove Lane
439 Elderberry Drive	1391 Dove Lane
442 Elderberry Drive	1403 Eagle Lane
443 Elderberry Drive	1404 Eagle Lane
444 Elderberry Drive	1405 Eagle Lane
445 Elderberry Drive	1406 Eagle Lane
446 Elderberry Drive	1408 Eagle Lane
448 Elderberry Drive	1410 Eagle Lane
449 Elderberry Drive	1412 Eagle Lane
451 Elderberry Drive	1413 Albatross Drive
453 Elderberry Drive	1414 Albatross Drive
464 Dogwood Drive	1417 Albatross Drive
466 Dogwood Drive	1421 Albatross Drive
467 Dogwood Drive	1422 Albatross Drive
469 Dogwood Drive	1425 Albatross Drive
471 Dogwood Drive	1427 Albatross Drive
475 Dogwood Drive	1430 Dove Lane
516 Laurel Bay Blvd	1432 Dove Lane
531 Laurel Bay Blvd	1438 Dove Lane
532 Laurel Bay Blvd	1453 Cardinal Lane
645 Dahlia Drive	1455 Cardinal Lane
763 Althea Street	