

**SUMMARY REPORT  
74 IRIS LANE (FORMERLY 1039 IRIS LANE)  
LAUREL BAY MILITARY HOUSING AREA  
MARINE CORPS AIR STATION BEAUFORT  
BEAUFORT, SC**

**Revision: 0  
Prepared for:**

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

**and**



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

**JUNE 2021**

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**9324 Virginia Avenue  
Norfolk, Virginia 23511-3095**

**Prepared by:**



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

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

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### List of Acronyms

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

## **1.0 INTRODUCTION**

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

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

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 74 Iris Lane (Formerly 1039 Iris Lane). 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 74 Iris Lane (Formerly 1039 Iris Lane). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1039 Iris Lane* (MCAS Beaufort, 2011). 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 – February and March 2017* (Resolution Consultants, 2017). The laboratory report that includes the pertinent IGWA analytical results for this site is presented in Appendix C.

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

On March 23, 2011, a single 280 gallon heating oil UST was removed from the rear patio area at 74 Iris Lane (Formerly 1039 Iris Lane). The former UST location is indicated on 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 6'7" 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 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 74 Iris Lane (Formerly 1039 Iris Lane) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In a letter dated August 24, 2016, SCDHEC requested an IGWA for 74 Iris Lane (Formerly 1039 Iris Lane) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letter is provided in Appendix D.

## **2.3 Groundwater Sampling**

On March 7, 2017, a temporary monitoring well was installed at 74 Iris Lane (Formerly 1039 Iris Lane), 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 in Figures 2 and 3 of the UST Assessment Report (Appendix B). Further details are provided in the *Initial Groundwater Investigation Report – February and March 2017* (Resolution Consultants, 2017).



The sampling strategy for this phase of the investigation required a one-time sampling event of the temporarily installed monitoring 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 – February and March 2017* (Resolution Consultants, 2017).

## **2.4 Groundwater Analytical Results**

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

The groundwater results collected from 74 Iris Lane (Formerly 1039 Iris Lane) 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 74 Iris Lane (Formerly 1039 Iris Lane). This NFA determination was obtained in a letter dated July 27, 2017. SCDHEC's NFA letter is provided in Appendix D.

## **4.0 REFERENCES**

Marine Corps Air Station Beaufort, 2011. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 1037 Iris Lane, Laurel Bay Military Housing Area*, June 2011.

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

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

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

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

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

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

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

## Tables

**Table 1**  
**Laboratory Analytical Results - Soil**  
**74 Iris Lane (Formerly 1039 Iris Lane)**  
**Laurel Bay Military Housing Area**  
**Marine Corps Air Station Beaufort**  
**Beaufort, South Carolina**

Constituent	SCDHEC RBSLs <sup>(1)</sup>	Results Sample Collected 03/23/11
<b>Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)</b>		
Benzene	0.003	ND
Ethylbenzene	1.15	ND
Naphthalene	0.036	ND
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 3.0 and 3.1 (SCDHEC, May 2015 and SCDHEC, February 2016) and the Underground Storage Tank Assessment Guidelines (SCDHEC, February 2006).

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**  
**74 Iris Lane (Formerly 1039 Iris Lane)**  
**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 03/08/17
<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	<b>3.7</b>
Toluene	1000	105,445	ND
Xylenes, Total	10,000	2,133	<b>1.8</b>
<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**



rec'd 6-23-11

Attachment 1

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

Date Received

State Use Only

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

**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

1039 Iris Lane, Laurel Bay Military Housing Area  
Street Address or State Road (as applicable)

Beaufort, Beaufort  
City County

Attachment 2

### III. INSURANCE INFORMATION

#### Insurance Statement

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

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

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

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

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

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

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

### IV. REQUEST FOR SUPERB FUNDING

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

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

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

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

\_\_\_\_\_  
Signature

#### To be completed by Notary Public:

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

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

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

## VI. UST INFORMATION

- 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.....

1039Iris				
Heating oil				
280 gal				
Late 1950s				
Steel				
Mid 1980s				
6'7"				
No				
No				
Removed				
3/23/2011				
Yes				
Yes				

- M. Method of disposal for any USTs removed from the ground (attach disposal manifests)  
UST 1039Iris was removed from the ground and disposed of 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 1039Iris was 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.....

1039Iris				
Steel & Copper				
N/A				
N/A				
Suction				
No				
Yes				
No				
Late 1950s				

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

Corrosion and pitting were found on the surface of the steel vent pipe. The 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 #
1039Iris	Excav at fill end	Soil	Sandy	6'7"	3/23/11 1045 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.

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## XII. RECEPTORS

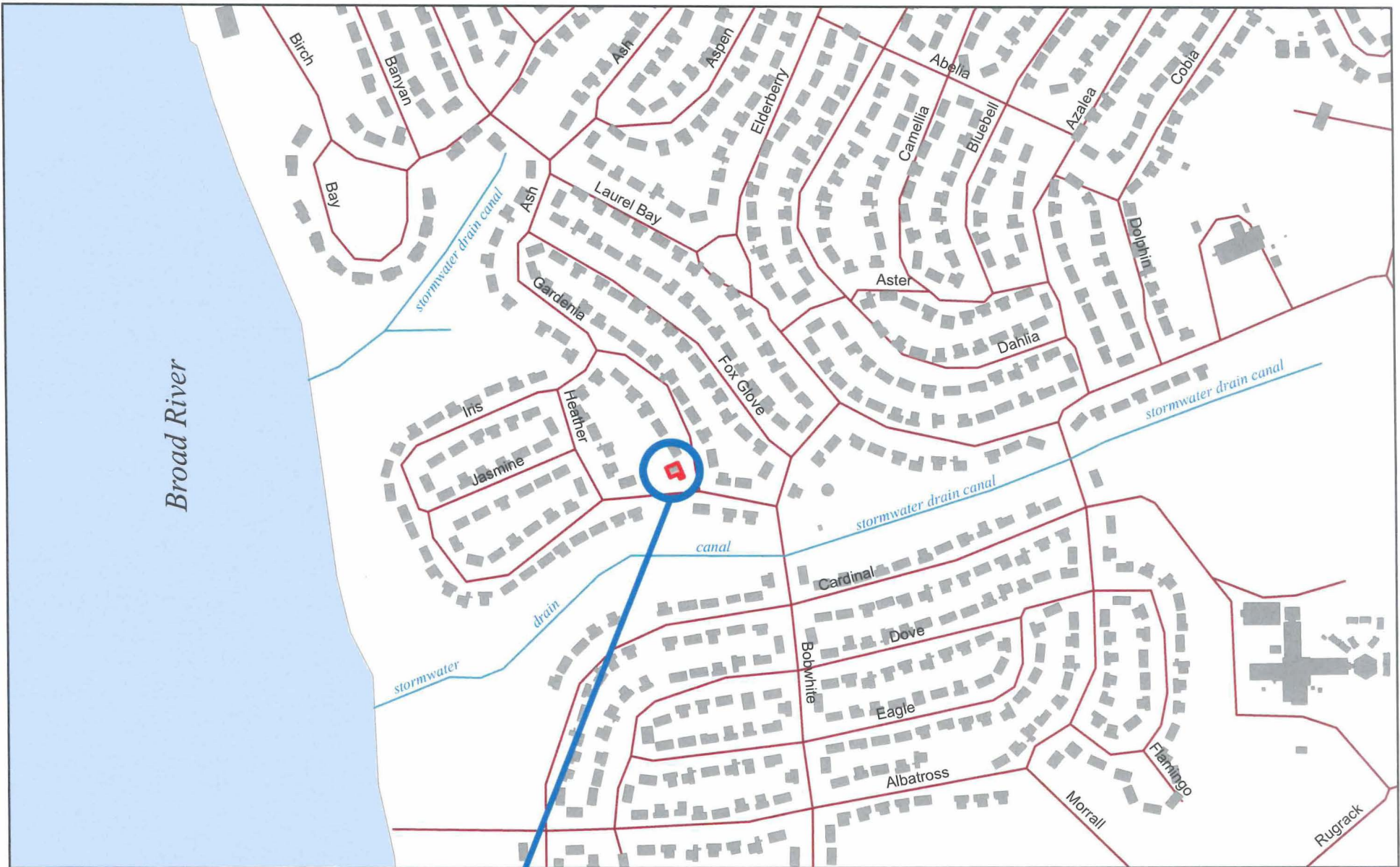
	Yes	No
<p>A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? *~340' &amp; 620' to stormwater canals</p> <p>If yes, indicate type of receptor, distance, and direction on site map.</p>	*X	
<p>B. Are there any public, private, or irrigation water supply wells 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? *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



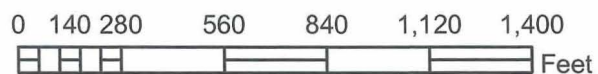
### **XIII. SITE MAP**

**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)



**1039 IRIS LN.**



**SBG-EEG, Inc.**

398 E. 5th North Street, Suite C  
Summerville SC 29483-6954

Ph. (843) 875-1930

Drawn By: L. DiAsio

Dwg Date: APR 2011

**FIGURE 1: LOCATION MAP**  
**1039 IRIS LANE**  
**LAUREL BAY, BEAUFORT SC**

STORMWATER DRAINAGE CANAL  $\approx 620'$

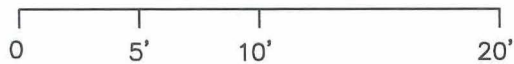
$\approx 342'$

UST 1039IRIS

1039 IRIS LANE  
LAUREL BAY MILITARY HOUSING  
MCAS BEAUFORT, SC

PATIO

GRAPHIC SCALE



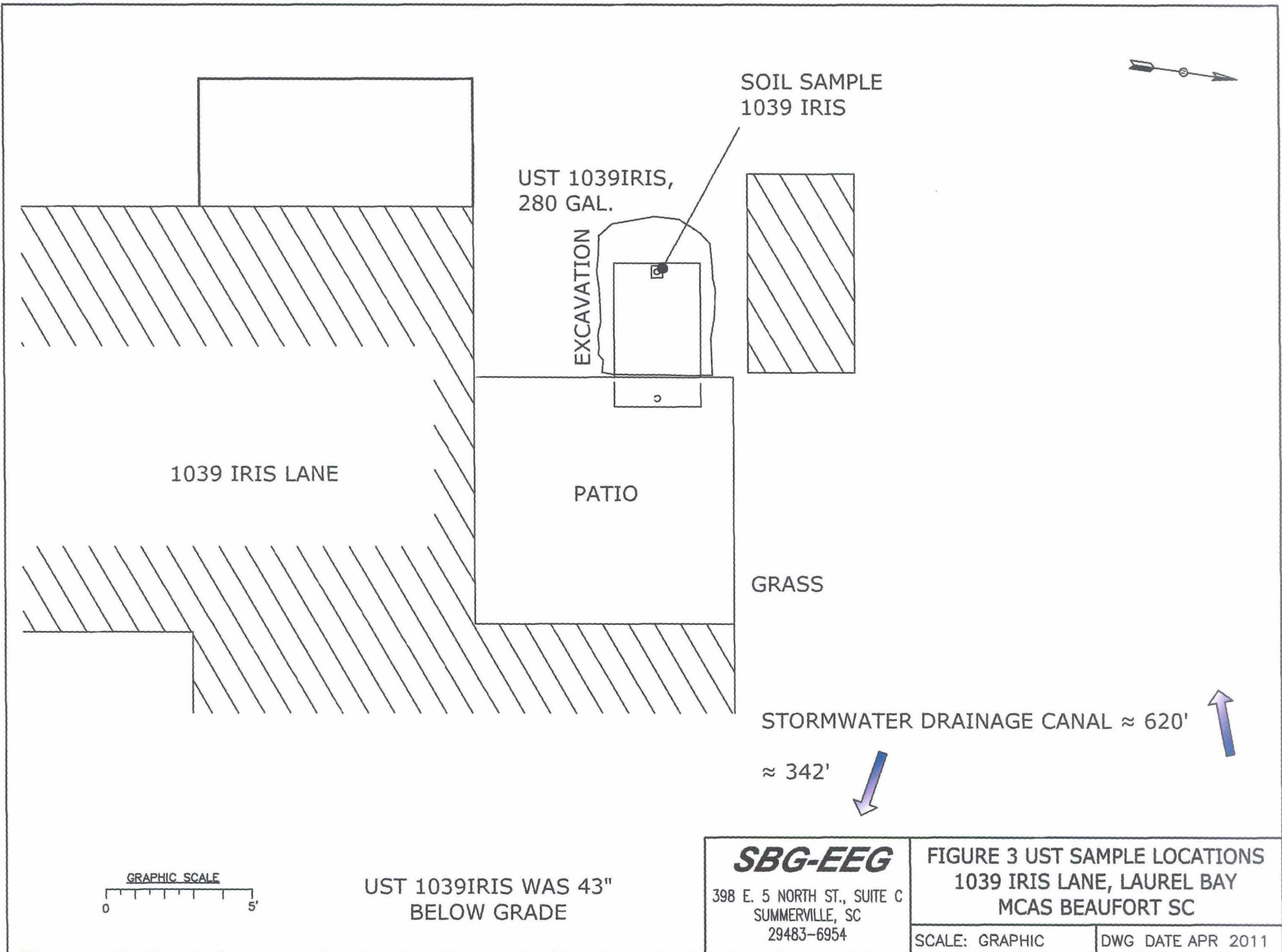
***SBG-EEG***

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

FIGURE 2 SITE MAP  
1039 IRIS LANE, LAUREL BAY  
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE APR 2011







Picture 1: Location of UST 1039Iris.



Picture 2: UST 1039Iris tank pit.

#### XIV. SUMMARY OF ANALYSIS RESULTS

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

CoC	UST	1039Iris						
Benzene		ND						
Toluene		ND						
Ethylbenzene		ND						
Xylenes		ND						
Naphthalene		ND						
Benzo (a) anthracene		ND						
Benzo (b) fluoranthene		ND						
Benzo (k) fluoranthene		ND						
Chrysene		ND						
Dibenz (a, h) anthracene		ND						
TPH (EPA 3550)								

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

### SUMMARY OF ANALYSIS RESULTS (cont'd)

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

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

## **XV. ANALYTICAL RESULTS**

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

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



April 11, 2011

10:57:29AM

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

Work Order: NUC4497  
Project Name: Laurel Bay Housing Project  
Project Nbr: [none]  
P/O Nbr: 1027  
Date Received: 03/26/11

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
1010 Foxglove	NUC4497-01	03/21/11 14:15
1071 Heather	NUC4497-02	03/22/11 09:45
1068 Gardenia	NUC4497-03	03/22/11 15:00
1039 Iris	NUC4497-04	03/23/11 10:45
1100 Iris	NUC4497-05	03/23/11 15:15
1101 Iris	NUC4497-06	03/24/11 11:15
1105 Iris	NUC4497-07	03/24/11 16:00

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

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

South Carolina Certification Number: 84009

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

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

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

Estimated uncertainty is available upon request.

This report has been electronically signed.

Report Approved By:



Ken A. Hayes

Senior Project Manager

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

Work Order: NUC4497  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 03/26/11 08:25

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NUC4497-01 (1010 Foxglove - Soil) Sampled: 03/21/11 14:15</b>										
General Chemistry Parameters										
% Dry Solids	94.0		%	0.500	0.500	1	04/06/11 12:29	SW-846	AMS	11D0901
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00127	0.00231	1	03/30/11 17:26	SW846 8260B	MJH/H	11C5756
Ethylbenzene	ND		mg/kg dry	0.00113	0.00231	1	03/30/11 17:26	SW846 8260B	MJH/H	11C5756
Naphthalene	ND		mg/kg dry	0.00197	0.00578	1	03/30/11 17:26	SW846 8260B	MJH/H	11C5756
Toluene	ND		mg/kg dry	0.00103	0.00231	1	03/30/11 17:26	SW846 8260B	MJH/H	11C5756
Xylenes, total	ND		mg/kg dry	0.00220	0.00578	1	03/30/11 17:26	SW846 8260B	MJH/H	11C5756
Surr: 1,2-Dichloroethane-d4 (67-138%)	110 %					1	03 30 11 17:26	SW846 8260B	MJH/H	11C5756
Surr: Dibromofluoromethane (75-125%)	103 %					1	03 30 11 17:26	SW846 8260B	MJH/H	11C5756
Surr: Toluene-d8 (76-129%)	92 %					1	03 30 11 17:26	SW846 8260B	MJH/H	11C5756
Surr: 4-Bromofluorobenzene (67-147%)	100 %					1	03 30 11 17:26	SW846 8260B	MJH/H	11C5756
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0147	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Acenaphthylene	ND		mg/kg dry	0.0210	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Anthracene	ND		mg/kg dry	0.00944	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Benzo (a) anthracene	ND		mg/kg dry	0.0115	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Benzo (a) pyrene	ND		mg/kg dry	0.00839	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Benzo (b) fluoranthene	ND		mg/kg dry	0.0398	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Benzo (g,h,i) perylene	ND		mg/kg dry	0.00944	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Benzo (k) fluoranthene	ND		mg/kg dry	0.0388	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Chrysene	ND		mg/kg dry	0.0325	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0157	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Fluoranthene	ND		mg/kg dry	0.0115	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Fluorene	ND		mg/kg dry	0.0210	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0325	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Naphthalene	ND		mg/kg dry	0.0147	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Phenanthrene	ND		mg/kg dry	0.0105	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Pyrene	ND		mg/kg dry	0.0241	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
1-Methylnaphthalene	ND		mg/kg dry	0.0126	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
2-Methylnaphthalene	ND		mg/kg dry	0.0220	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Surr: Terphenyl-d14 (18-120%)	55 %					1	03 30 11 15:33	SW846 8270D	AJK	11C6845
Surr: 2-Fluorobiphenyl (14-120%)	48 %					1	03 30 11 15:33	SW846 8270D	AJK	11C6845
Surr: Nitrobenzene-d5 (17-120%)	47 %					1	03 30 11 15:33	SW846 8270D	AJK	11C6845

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

Work Order: NUC4497  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 03/26/11 08:25

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NUC4497-02 (1071 Heather - Soil) Sampled: 03/22/11 09:45</b>										
General Chemistry Parameters										
% Dry Solids	84.0		%	0.500	0.500	1	04/06/11 12:29	SW-846	AMS	11D0901
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00106	0.00193	1	03/30/11 17:56	SW846 8260B	MJH/H	11C5756
Ethylbenzene	ND		mg/kg dry	0.000947	0.00193	1	03/30/11 17:56	SW846 8260B	MJH/H	11C5756
Naphthalene	ND		mg/kg dry	0.00164	0.00483	1	03/30/11 17:56	SW846 8260B	MJH/H	11C5756
Toluene	ND		mg/kg dry	0.000860	0.00193	1	03/30/11 17:56	SW846 8260B	MJH/H	11C5756
Xylenes, total	ND		mg/kg dry	0.00184	0.00483	1	03/30/11 17:56	SW846 8260B	MJH/H	11C5756
Surr: 1,2-Dichloroethane-d4 (67-138%)	109 %					1	03/30/11 17:56	SW846 8260B	MJH/H	11C5756
Surr: Dibromofluoromethane (75-125%)	100 %					1	03/30/11 17:56	SW846 8260B	MJH/H	11C5756
Surr: Toluene-d8 (76-129%)	94 %					1	03/30/11 17:56	SW846 8260B	MJH/H	11C5756
Surr: 4-Bromofluorobenzene (67-147%)	104 %					1	03/30/11 17:56	SW846 8260B	MJH/H	11C5756
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0162	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Acenaphthylene	ND		mg/kg dry	0.0231	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Anthracene	ND		mg/kg dry	0.0104	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Benzo (a) anthracene	ND		mg/kg dry	0.0127	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Benzo (a) pyrene	ND		mg/kg dry	0.00926	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Benzo (b) fluoranthene	ND		mg/kg dry	0.0440	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0104	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Benzo (k) fluoranthene	ND		mg/kg dry	0.0428	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Chrysene	ND		mg/kg dry	0.0359	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0174	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Fluoranthene	ND		mg/kg dry	0.0127	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Fluorene	ND		mg/kg dry	0.0231	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0359	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Naphthalene	ND		mg/kg dry	0.0162	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Phenanthrene	ND		mg/kg dry	0.0116	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Pyrene	ND		mg/kg dry	0.0266	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
1-Methylnaphthalene	ND		mg/kg dry	0.0139	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
2-Methylnaphthalene	ND		mg/kg dry	0.0243	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Surr: Terphenyl-d14 (18-120%)	53 %					1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Surr: 2-Fluorobiphenyl (14-120%)	51 %					1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Surr: Nitrobenzene-d5 (17-120%)	48 %					1	03/30/11 15:52	SW846 8270D	AJK	11C6845

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

Work Order: NUC4497  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 03/26/11 08:25

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NUC4497-03 (1068 Gardenia - Soil) Sampled: 03/22/11 15:00</b>										
General Chemistry Parameters										
% Dry Solids	83.2		%	0.500	0.500	1	04/06/11 12:29	SW-846	AMS	11D0901
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00114	0.00208	1	03/30/11 18:25	SW846 8260B	MJH/H	11C5756
Ethylbenzene	ND		mg/kg dry	0.00102	0.00208	1	03/30/11 18:25	SW846 8260B	MJH/H	11C5756
Naphthalene	ND		mg/kg dry	0.00177	0.00520	1	03/30/11 18:25	SW846 8260B	MJH/H	11C5756
Toluene	ND		mg/kg dry	0.000926	0.00208	1	03/30/11 18:25	SW846 8260B	MJH/H	11C5756
Xylenes, total	ND		mg/kg dry	0.00198	0.00520	1	03/30/11 18:25	SW846 8260B	MJH/H	11C5756
Surr: 1,2-Dichloroethane-d4 (67-138%)	108 %					1	03-30-11 18:25	SW846 8260B	MJH/H	11C5756
Surr: Dibromofluoromethane (75-125%)	102 %					1	03-30-11 18:25	SW846 8260B	MJH/H	11C5756
Surr: Toluene-d8 (76-129%)	96 %					1	03-30-11 18:25	SW846 8260B	MJH/H	11C5756
Surr: 4-Bromofluorobenzene (67-147%)	111 %					1	03-30-11 18:25	SW846 8260B	MJH/H	11C5756
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0166	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Acenaphthylene	ND		mg/kg dry	0.0237	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Anthracene	ND		mg/kg dry	0.0107	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Benzo (a) anthracene	ND		mg/kg dry	0.0130	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Benzo (a) pyrene	ND		mg/kg dry	0.00948	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Benzo (b) fluoranthene	ND		mg/kg dry	0.0450	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0107	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Benzo (k) fluoranthene	ND		mg/kg dry	0.0438	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Chrysene	ND		mg/kg dry	0.0367	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0178	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Fluoranthene	ND		mg/kg dry	0.0130	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Fluorene	ND		mg/kg dry	0.0237	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0367	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Naphthalene	ND		mg/kg dry	0.0166	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Phenanthrene	ND		mg/kg dry	0.0118	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Pyrene	ND		mg/kg dry	0.0273	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
1-Methylnaphthalene	ND		mg/kg dry	0.0142	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
2-Methylnaphthalene	ND		mg/kg dry	0.0249	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Surr: Terphenyl-d14 (18-120%)	57 %					1	03-30-11 16:10	SW846 8270D	AJK	11C6845
Surr: 2-Fluorobiphenyl (14-120%)	59 %					1	03-30-11 16:10	SW846 8270D	AJK	11C6845
Surr: Nitrobenzene-d5 (17-120%)	49 %					1	03-30-11 16:10	SW846 8270D	AJK	11C6845

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

Work Order: NUC4497  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 03/26/11 08:25

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NUC4497-04 (1039 Iris - Soil) Sampled: 03/23/11 10:45</b>										
General Chemistry Parameters										
% Dry Solids	89.5		%	0.500	0.500	1	04/06/11 12:29	SW-846	AMS	11D0901
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00121	0.00220	1	03/31/11 13:36	SW846 8260B	MJH/H	11C7723
Ethylbenzene	ND	RL1	mg/kg dry	0.0662	0.135	50	03/31/11 14:06	SW846 8260B	MJH/H	11C7723
Naphthalene	ND	RL1	mg/kg dry	0.115	0.338	50	03/31/11 14:06	SW846 8260B	MJH/H	11C7723
Toluene	ND	RL1	mg/kg dry	0.0602	0.135	50	03/31/11 14:06	SW846 8260B	MJH/H	11C7723
Xylenes, total	ND	RL1	mg/kg dry	0.128	0.338	50	03/31/11 14:06	SW846 8260B	MJH/H	11C7723
Surr: 1,2-Dichloroethane-d4 (67-138%)	132 %					1	03/31/11 13:36	SW846 8260B	MJH/H	11C7723
Surr: 1,2-Dichloroethane-d4 (67-138%)	108 %					50	03/31/11 14:06	SW846 8260B	MJH/H	11C7723
Surr: Dibromofluoromethane (75-125%)	108 %					1	03/31/11 13:36	SW846 8260B	MJH/H	11C7723
Surr: Dibromofluoromethane (75-125%)	93 %					50	03/31/11 14:06	SW846 8260B	MJH/H	11C7723
Surr: Toluene-d8 (76-129%)	114 %					1	03/31/11 13:36	SW846 8260B	MJH/H	11C7723
Surr: Toluene-d8 (76-129%)	92 %					50	03/31/11 14:06	SW846 8260B	MJH/H	11C7723
Surr: 4-Bromofluorobenzene (67-147%)	163 %	ZX				1	03/31/11 13:36	SW846 8260B	MJH/H	11C7723
Surr: 4-Bromofluorobenzene (67-147%)	103 %					50	03/31/11 14:06	SW846 8260B	MJH/H	11C7723
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0155	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Acenaphthylene	ND		mg/kg dry	0.0222	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Anthracene	ND		mg/kg dry	0.00998	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Benzo (a) anthracene	ND		mg/kg dry	0.0122	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Benzo (a) pyrene	ND		mg/kg dry	0.00887	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Benzo (b) fluoranthene	ND		mg/kg dry	0.0421	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Benzo (g,h,i) perylene	ND		mg/kg dry	0.00998	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Benzo (k) fluoranthene	ND		mg/kg dry	0.0410	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Chrysene	ND		mg/kg dry	0.0344	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0166	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Fluoranthene	ND		mg/kg dry	0.0122	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Fluorene	ND		mg/kg dry	0.0222	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0344	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Naphthalene	ND		mg/kg dry	0.0155	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Phenanthrene	ND		mg/kg dry	0.0111	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Pyrene	ND		mg/kg dry	0.0255	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
1-Methylnaphthalene	ND		mg/kg dry	0.0133	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
2-Methylnaphthalene	ND		mg/kg dry	0.0233	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Surr: Terphenyl-d14 (18-120%)	76 %					1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Surr: 2-Fluorobiphenyl (14-120%)	78 %					1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Surr: Nitrobenzene-d5 (17-120%)	39 %					1	03/30/11 16:29	SW846 8270D	AJK	11C6845

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC4497
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/26/11 08:25

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NUC4497-05 (1100 Iris - Soil) Sampled: 03/23/11 15:15</b>										
General Chemistry Parameters										
% Dry Solids	82.4		%	0.500	0.500	1	04/06/11 12:29	SW-846	AMS	11D0901
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00122	0.00222	1	03/30/11 19:25	SW846 8260B	MJH/H	11C5756
Ethylbenzene	ND		mg/kg dry	0.00109	0.00222	1	03/30/11 19:25	SW846 8260B	MJH/H	11C5756
Naphthalene	ND		mg/kg dry	0.00189	0.00555	1	03/30/11 19:25	SW846 8260B	MJH/H	11C5756
Toluene	ND		mg/kg dry	0.000987	0.00222	1	03/30/11 19:25	SW846 8260B	MJH/H	11C5756
Xylenes, total	ND		mg/kg dry	0.00211	0.00555	1	03/30/11 19:25	SW846 8260B	MJH/H	11C5756
Surr: 1,2-Dichloroethane-d4 (67-138%)	107 %					1	03-30-11 19:25	SW846 8260B	MJH-H	11C5756
Surr: Dibromofluoromethane (75-125%)	100 %					1	03-30-11 19:25	SW846 8260B	MJH-H	11C5756
Surr: Toluene-d8 (76-129%)	95 %					1	03-30-11 19:25	SW846 8260B	MJH-H	11C5756
Surr: 4-Bromofluorobenzene (67-147%)	102 %					1	03-30-11 19:25	SW846 8260B	MJH-H	11C5756
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0168	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Acenaphthylene	ND		mg/kg dry	0.0241	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Anthracene	ND		mg/kg dry	0.0108	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Benzo (a) anthracene	ND		mg/kg dry	0.0132	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Benzo (a) pyrene	ND		mg/kg dry	0.00962	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Benzo (b) fluoranthene	ND		mg/kg dry	0.0457	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0108	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Benzo (k) fluoranthene	ND		mg/kg dry	0.0445	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Chrysene	ND		mg/kg dry	0.0373	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0180	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Fluoranthene	ND		mg/kg dry	0.0132	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Fluorene	ND		mg/kg dry	0.0241	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0373	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Naphthalene	ND		mg/kg dry	0.0168	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Phenanthrene	ND		mg/kg dry	0.0120	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Pyrene	ND		mg/kg dry	0.0277	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
1-Methylnaphthalene	ND		mg/kg dry	0.0144	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
2-Methylnaphthalene	ND		mg/kg dry	0.0253	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Surr: Terphenyl-d14 (18-120%)	69 %					1	03-30-11 16:48	SW846 8270D	AJK	11C6845
Surr: 2-Fluorobiphenyl (14-120%)	57 %					1	03-30-11 16:48	SW846 8270D	AJK	11C6845
Surr: Nitrobenzene-d5 (17-120%)	54 %					1	03-30-11 16:48	SW846 8270D	AJK	11C6845

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC4497
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/26/11 08:25

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NUC4497-06 (1101 Iris - Soil) Sampled: 03/24/11 11:15</b>										
General Chemistry Parameters										
% Dry Solids	83.2		%	0.500	0.500	1	04/06/11 12:29	SW-846	AMS	11D0901
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00103	0.00188	1	03/30/11 19:55	SW846 8260B	MJH/H	11C5756
Ethylbenzene	0.0617		mg/kg dry	0.000921	0.00188	1	03/30/11 19:55	SW846 8260B	MJH/H	11C5756
Naphthalene	1.02		mg/kg dry	0.0793	0.233	50	03/31/11 16:05	SW846 8260B	MJH/H	11C7723
Toluene	0.00104	J	mg/kg dry	0.000837	0.00188	1	03/30/11 19:55	SW846 8260B	MJH/H	11C5756
Xylenes, total	0.270		mg/kg dry	0.00179	0.00470	1	03/30/11 19:55	SW846 8260B	MJH/H	11C5756
Surr: 1,2-Dichloroethane-d4 (67-138%)	109 %					1	03/30/11 19:55	SW846 8260B	MJH/H	11C5756
Surr: 1,2-Dichloroethane-d4 (67-138%)	99 %					50	03/31/11 16:05	SW846 8260B	MJH/H	11C7723
Surr: Dibromofluoromethane (75-125%)	99 %					1	03/30/11 19:55	SW846 8260B	MJH/H	11C5756
Surr: Dibromofluoromethane (75-125%)	87 %					50	03/31/11 16:05	SW846 8260B	MJH/H	11C7723
Surr: Toluene-d8 (76-129%)	116 %					1	03/30/11 19:55	SW846 8260B	MJH/H	11C5756
Surr: Toluene-d8 (76-129%)	102 %					50	03/31/11 16:05	SW846 8260B	MJH/H	11C7723
Surr: 4-Bromofluorobenzene (67-147%)	178 %	ZX				1	03/30/11 19:55	SW846 8260B	MJH/H	11C5756
Surr: 4-Bromofluorobenzene (67-147%)	100 %					50	03/31/11 16:05	SW846 8260B	MJH/H	11C7723
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0167	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Acenaphthylene	ND		mg/kg dry	0.0238	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Anthracene	ND		mg/kg dry	0.0107	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Benzo (a) anthracene	ND		mg/kg dry	0.0131	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Benzo (a) pyrene	ND		mg/kg dry	0.00953	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Benzo (b) fluoranthene	ND		mg/kg dry	0.0453	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0107	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Benzo (k) fluoranthene	ND		mg/kg dry	0.0441	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Chrysene	ND		mg/kg dry	0.0369	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0179	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Fluoranthene	ND		mg/kg dry	0.0131	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Fluorene	0.807		mg/kg dry	0.0238	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0369	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Naphthalene	1.01		mg/kg dry	0.0167	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Phenanthrene	1.38		mg/kg dry	0.0119	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Pyrene	0.0762	J	mg/kg dry	0.0274	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
1-Methylnaphthalene	3.89		mg/kg dry	0.0143	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
2-Methylnaphthalene	5.76		mg/kg dry	0.125	0.399	5	03/31/11 12:05	SW846 8270D	ajk	11C6845
Surr: Terphenyl-d14 (18-120%)	73 %					1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Surr: 2-Fluorobiphenyl (14-120%)	64 %					1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Surr: Nitrobenzene-d5 (17-120%)	63 %					1	03/30/11 17:06	SW846 8270D	AJK	11C6845

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

Work Order: NUC4497  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 03/26/11 08:25

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NUC4497-07 (1105 Iris - Soil) Sampled: 03/24/11 16:00</b>										
General Chemistry Parameters										
% Dry Solids	85.0		%	0.500	0.500	1	04/06/11 12:29	SW-846	AMS	11D0901
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND	RL1	mg/kg dry	0.0594	0.108	50	03/31/11 15:06	SW846 8260B	MJH/H	11C7723
Ethylbenzene	ND	RL1	mg/kg dry	0.0529	0.108	50	03/31/11 15:06	SW846 8260B	MJH/H	11C7723
Naphthalene	ND	RL1	mg/kg dry	0.0918	0.270	50	03/31/11 15:06	SW846 8260B	MJH/H	11C7723
Toluene	ND	RL1	mg/kg dry	0.0481	0.108	50	03/31/11 15:06	SW846 8260B	MJH/H	11C7723
Xylenes, total	ND	RL1	mg/kg dry	0.103	0.270	50	03/31/11 15:06	SW846 8260B	MJH/H	11C7723
Surr: 1,2-Dichloroethane-d4 (67-138%)	106 %					50	03 31 11 15:06	SW846 8260B	MJH H	11C7723
Surr: Dibromofluoromethane (75-125%)	91 %					50	03 31 11 15:06	SW846 8260B	MJH H	11C7723
Surr: Toluene-d8 (76-129%)	102 %					50	03 31 11 15:06	SW846 8260B	MJH H	11C7723
Surr: 4-Bromofluorobenzene (67-147%)	104 %					50	03 31 11 15:06	SW846 8260B	MJH H	11C7723
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0163	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Acenaphthylene	ND		mg/kg dry	0.0233	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Anthracene	ND		mg/kg dry	0.0105	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Benzo (a) anthracene	ND		mg/kg dry	0.0128	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Benzo (a) pyrene	ND		mg/kg dry	0.00931	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Benzo (b) fluoranthene	ND		mg/kg dry	0.0442	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0105	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Benzo (k) fluoranthene	ND		mg/kg dry	0.0430	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Chrysene	ND		mg/kg dry	0.0361	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0175	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Fluoranthene	ND		mg/kg dry	0.0128	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Fluorene	ND		mg/kg dry	0.0233	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0361	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Naphthalene	ND		mg/kg dry	0.0163	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Phenanthrene	ND		mg/kg dry	0.0116	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Pyrene	ND		mg/kg dry	0.0268	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
1-Methylnaphthalene	ND		mg/kg dry	0.0140	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
2-Methylnaphthalene	ND		mg/kg dry	0.0244	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Surr: Terphenyl-d14 (18-120%)	68 %					1	03 30 11 17:25	SW846 8270D	AJK	11C6845
Surr: 2-Fluorobiphenyl (14-120%)	52 %					1	03 30 11 17:25	SW846 8270D	AJK	11C6845
Surr: Nitrobenzene-d5 (17-120%)	44 %					1	03 30 11 17:25	SW846 8270D	AJK	11C6845



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

Work Order: NUC4497  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 03/26/11 08:25

## SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extract Vol	Date	Analyst	Extraction Method
Polyaromatic Hydrocarbons by EPA 8270D							
SW846 8270D	11C6845	NUC4497-01	30.43	1.00	03/29/11 10:40	SAS	EPA 3550C
SW846 8270D	11C6845	NUC4497-02	30.86	1.00	03/29/11 10:40	SAS	EPA 3550C
SW846 8270D	11C6845	NUC4497-03	30.44	1.00	03/29/11 10:40	SAS	EPA 3550C
SW846 8270D	11C6845	NUC4497-04	30.21	1.00	03/29/11 10:40	SAS	EPA 3550C
SW846 8270D	11C6845	NUC4497-05	30.28	1.00	03/29/11 10:40	SAS	EPA 3550C
SW846 8270D	11C6845	NUC4497-06	30.26	1.00	03/29/11 10:40	SAS	EPA 3550C
SW846 8270D	11C6845	NUC4497-06RE1	30.26	1.00	03/29/11 10:40	SAS	EPA 3550C
SW846 8270D	11C6845	NUC4497-07	30.35	1.00	03/29/11 10:40	SAS	EPA 3550C
Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	11C5756	NUC4497-01	4.60	5.00	03/21/11 14:15	CHH	EPA 5035
SW846 8260B	11C5756	NUC4497-02	6.16	5.00	03/22/11 09:45	CHH	EPA 5035
SW846 8260B	11C5756	NUC4497-03	5.78	5.00	03/22/11 15:00	CHH	EPA 5035
SW846 8260B	11C5756	NUC4497-04	4.86	5.00	03/23/11 10:45	CHH	EPA 5035
SW846 8260B	11C7723	NUC4497-04RE1	5.08	5.00	03/23/11 10:45	CHH	EPA 5035
SW846 8260B	11C7723	NUC4497-04RE2	4.13	5.00	03/23/11 10:45	CHH	EPA 5035
SW846 8260B	11C5756	NUC4497-05	5.47	5.00	03/23/11 15:15	CHH	EPA 5035
SW846 8260B	11C5756	NUC4497-06	6.39	5.00	03/24/11 11:15	CHH	EPA 5035
SW846 8260B	11C7723	NUC4497-06RE1	6.44	5.00	03/24/11 11:15	CHH	EPA 5035
SW846 8260B	11C5756	NUC4497-07	5.26	5.00	03/24/11 16:00	CHH	EPA 5035
SW846 8260B	11C7723	NUC4497-07RE1	4.74	5.00	03/24/11 16:00	CHH	EPA 5035
SW846 8260B	11C7723	NUC4497-07RE2	5.45	5.00	03/24/11 16:00	CHH	EPA 5035

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

Work Order: NUC4497  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 03/26/11 08:25

## PROJECT QUALITY CONTROL DATA

### Blank

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

##### 11C5756-BLK1

Benzene	<0.00110		mg/kg wet	11C5756	11C5756-BLK1	03/30/11 12:19
Ethylbenzene	<0.000980		mg/kg wet	11C5756	11C5756-BLK1	03/30/11 12:19
Naphthalene	<0.00170		mg/kg wet	11C5756	11C5756-BLK1	03/30/11 12:19
Toluene	<0.000890		mg/kg wet	11C5756	11C5756-BLK1	03/30/11 12:19
Xylenes, total	<0.00190		mg/kg wet	11C5756	11C5756-BLK1	03/30/11 12:19
Surrogate: 1,2-Dichloroethane-d4	110%			11C5756	11C5756-BLK1	03/30/11 12:19
Surrogate: Dibromofluoromethane	102%			11C5756	11C5756-BLK1	03/30/11 12:19
Surrogate: Toluene-d8	91%			11C5756	11C5756-BLK1	03/30/11 12:19
Surrogate: 4-Bromofluorobenzene	98%			11C5756	11C5756-BLK1	03/30/11 12:19

##### 11C5756-BLK2

Benzene	<0.0550		mg/kg wet	11C5756	11C5756-BLK2	03/30/11 12:49
Ethylbenzene	<0.0490		mg/kg wet	11C5756	11C5756-BLK2	03/30/11 12:49
Naphthalene	<0.0850		mg/kg wet	11C5756	11C5756-BLK2	03/30/11 12:49
Toluene	<0.0445		mg/kg wet	11C5756	11C5756-BLK2	03/30/11 12:49
Xylenes, total	<0.0950		mg/kg wet	11C5756	11C5756-BLK2	03/30/11 12:49
Surrogate: 1,2-Dichloroethane-d4	106%			11C5756	11C5756-BLK2	03/30/11 12:49
Surrogate: Dibromofluoromethane	100%			11C5756	11C5756-BLK2	03/30/11 12:49
Surrogate: Toluene-d8	101%			11C5756	11C5756-BLK2	03/30/11 12:49
Surrogate: 4-Bromofluorobenzene	98%			11C5756	11C5756-BLK2	03/30/11 12:49

##### 11C7723-BLK1

Benzene	<0.00110		mg/kg wet	11C7723	11C7723-BLK1	03/31/11 12:07
Ethylbenzene	<0.000980		mg/kg wet	11C7723	11C7723-BLK1	03/31/11 12:07
Naphthalene	<0.00170		mg/kg wet	11C7723	11C7723-BLK1	03/31/11 12:07
Toluene	<0.000890		mg/kg wet	11C7723	11C7723-BLK1	03/31/11 12:07
Xylenes, total	<0.00190		mg/kg wet	11C7723	11C7723-BLK1	03/31/11 12:07
Surrogate: 1,2-Dichloroethane-d4	110%			11C7723	11C7723-BLK1	03/31/11 12:07
Surrogate: Dibromofluoromethane	101%			11C7723	11C7723-BLK1	03/31/11 12:07
Surrogate: Toluene-d8	101%			11C7723	11C7723-BLK1	03/31/11 12:07
Surrogate: 4-Bromofluorobenzene	99%			11C7723	11C7723-BLK1	03/31/11 12:07

##### 11C7723-BLK2

Benzene	<0.0550		mg/kg wet	11C7723	11C7723-BLK2	03/31/11 12:37
Ethylbenzene	<0.0490		mg/kg wet	11C7723	11C7723-BLK2	03/31/11 12:37
Naphthalene	<0.0850		mg/kg wet	11C7723	11C7723-BLK2	03/31/11 12:37
Toluene	<0.0445		mg/kg wet	11C7723	11C7723-BLK2	03/31/11 12:37
Xylenes, total	<0.0950		mg/kg wet	11C7723	11C7723-BLK2	03/31/11 12:37
Surrogate: 1,2-Dichloroethane-d4	104%			11C7723	11C7723-BLK2	03/31/11 12:37
Surrogate: Dibromofluoromethane	99%			11C7723	11C7723-BLK2	03/31/11 12:37
Surrogate: Toluene-d8	102%			11C7723	11C7723-BLK2	03/31/11 12:37
Surrogate: 4-Bromofluorobenzene	98%			11C7723	11C7723-BLK2	03/31/11 12:37

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

Work Order: NUC4497  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 03/26/11 08:25

## PROJECT QUALITY CONTROL DATA

### Blank - Cont.

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

### Polyaromatic Hydrocarbons by EPA 8270D

#### 11C6845-BLK1

Acenaphthene	<0.0140		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Acenaphthylene	<0.0200		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Anthracene	<0.00900		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Benzo (a) anthracene	<0.0110		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Benzo (a) pyrene	<0.00800		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Benzo (b) fluoranthene	<0.0380		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Benzo (g,h,i) perylene	<0.00900		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Benzo (k) fluoranthene	<0.0370		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Chrysene	<0.0310		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Dibenz (a,h) anthracene	<0.0150		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Fluoranthene	<0.0110		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Fluorene	<0.0200		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Indeno (1,2,3-cd) pyrene	<0.0310		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Naphthalene	<0.0140		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Phenanthrene	<0.0100		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Pyrene	<0.0230		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
1-Methylnaphthalene	<0.0120		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
2-Methylnaphthalene	<0.0210		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Surrogate: Terphenyl-d14	67%			11C6845	11C6845-BLK1	03/30/11 10:32
Surrogate: 2-Fluorobiphenyl	66%			11C6845	11C6845-BLK1	03/30/11 10:32
Surrogate: Nitrobenzene-d5	62%			11C6845	11C6845-BLK1	03/30/11 10:32

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

Work Order: NUC4497  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 03/26/11 08:25

## PROJECT QUALITY CONTROL DATA

### Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
<b>General Chemistry Parameters</b>										
<b>11D0901-DUP1</b>										
% Dry Solids	83.0	85.7		%	3	20	11D0901	NUC4454-22		04/06/11 12:29

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

Work Order: NUC4497  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 03/26/11 08:25

## PROJECT QUALITY CONTROL DATA

## LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
<b>Volatile Organic Compounds by EPA Method 8260B</b>								
<b>11C5756-BS1</b>								
Benzene	50.0	53.0		ug/kg	106%	78 - 126	11C5756	03/30/11 10:49
Ethylbenzene	50.0	53.2		ug/kg	106%	79 - 130	11C5756	03/30/11 10:49
Naphthalene	50.0	53.4		ug/kg	107%	72 - 150	11C5756	03/30/11 10:49
Toluene	50.0	48.5		ug/kg	97%	76 - 126	11C5756	03/30/11 10:49
Xylenes, total	150	153		ug/kg	102%	80 - 130	11C5756	03/30/11 10:49
Surrogate: 1,2-Dichloroethane-d4	50.0	55.8			112%	67 - 138	11C5756	03/30/11 10:49
Surrogate: Dibromofluoromethane	50.0	51.4			103%	75 - 125	11C5756	03/30/11 10:49
Surrogate: Toluene-d8	50.0	45.8			92%	76 - 129	11C5756	03/30/11 10:49
Surrogate: 4-Bromofluorobenzene	50.0	50.0			100%	67 - 147	11C5756	03/30/11 10:49
<b>11C7723-BS1</b>								
Benzene	50.0	48.8		ug/kg	98%	78 - 126	11C7723	03/31/11 10:25
Ethylbenzene	50.0	49.5		ug/kg	99%	79 - 130	11C7723	03/31/11 10:25
Naphthalene	50.0	51.3		ug/kg	103%	72 - 150	11C7723	03/31/11 10:25
Toluene	50.0	49.0		ug/kg	98%	76 - 126	11C7723	03/31/11 10:25
Xylenes, total	150	147		ug/kg	98%	80 - 130	11C7723	03/31/11 10:25
Surrogate: 1,2-Dichloroethane-d4	50.0	56.5			113%	67 - 138	11C7723	03/31/11 10:25
Surrogate: Dibromofluoromethane	50.0	51.5			103%	75 - 125	11C7723	03/31/11 10:25
Surrogate: Toluene-d8	50.0	49.5			99%	76 - 129	11C7723	03/31/11 10:25
Surrogate: 4-Bromofluorobenzene	50.0	50.4			101%	67 - 147	11C7723	03/31/11 10:25
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>								
<b>11C6845-BS1</b>								
Acenaphthene	1.67	1.19		mg/kg wet	72%	49 - 120	11C6845	03/30/11 10:51
Acenaphthylene	1.67	1.28		mg/kg wet	77%	52 - 120	11C6845	03/30/11 10:51
Anthracene	1.67	1.31		mg/kg wet	79%	58 - 120	11C6845	03/30/11 10:51
Benzo (a) anthracene	1.67	1.23		mg/kg wet	74%	57 - 120	11C6845	03/30/11 10:51
Benzo (a) pyrene	1.67	1.36		mg/kg wet	81%	55 - 120	11C6845	03/30/11 10:51
Benzo (b) fluoranthene	1.67	1.31		mg/kg wet	79%	51 - 123	11C6845	03/30/11 10:51
Benzo (g,h,i) perylene	1.67	1.43		mg/kg wet	86%	49 - 121	11C6845	03/30/11 10:51
Benzo (k) fluoranthene	1.67	1.24		mg/kg wet	74%	42 - 129	11C6845	03/30/11 10:51
Chrysene	1.67	1.18		mg/kg wet	71%	55 - 120	11C6845	03/30/11 10:51
Dibenz (a,h) anthracene	1.67	1.46		mg/kg wet	88%	50 - 123	11C6845	03/30/11 10:51
Fluoranthene	1.67	1.33		mg/kg wet	80%	58 - 120	11C6845	03/30/11 10:51
Fluorene	1.67	1.29		mg/kg wet	77%	54 - 120	11C6845	03/30/11 10:51
Indeno (1,2,3-cd) pyrene	1.67	1.50		mg/kg wet	90%	50 - 122	11C6845	03/30/11 10:51
Naphthalene	1.67	1.30		mg/kg wet	78%	28 - 120	11C6845	03/30/11 10:51
Phenanthrene	1.67	1.28		mg/kg wet	77%	56 - 120	11C6845	03/30/11 10:51
Pyrene	1.67	1.14		mg/kg wet	68%	56 - 120	11C6845	03/30/11 10:51
1-Methylnaphthalene	1.67	1.16		mg/kg wet	69%	36 - 120	11C6845	03/30/11 10:51
2-Methylnaphthalene	1.67	1.25		mg/kg wet	75%	36 - 120	11C6845	03/30/11 10:51

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

Work Order: NUC4497  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 03/26/11 08:25

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

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>								
<b>11C6845-BS1</b>								
<i>Surrogate: Terphenyl-d14</i>	1.67	1.01			61%	18 - 120	11C6845	03/30/11 10:51
<i>Surrogate: 2-Fluorobiphenyl</i>	1.67	1.11			67%	14 - 120	11C6845	03/30/11 10:51
<i>Surrogate: Nitrobenzene-d5</i>	1.67	1.13			68%	17 - 120	11C6845	03/30/11 10:51

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

Work Order: NUC4497  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 03/26/11 08:25

## PROJECT QUALITY CONTROL DATA

### Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
<b>Volatile Organic Compounds by EPA Method 8260B</b>										
<b>11C5756-MS1</b>										
Benzene	0.00806	0.0505		mg/kg wet	0.0470	90%	42 - 141	11C5756	NUC3836-05	03/30/11 20:54
Ethylbenzene	0.00176	0.0461		mg/kg wet	0.0470	94%	21 - 165	11C5756	NUC3836-05	03/30/11 20:54
Naphthalene	ND	0.0406		mg/kg wet	0.0470	86%	10 - 160	11C5756	NUC3836-05	03/30/11 20:54
Toluene	0.0169	0.0574		mg/kg wet	0.0470	86%	45 - 145	11C5756	NUC3836-05	03/30/11 20:54
Xylenes, total	0.0219	0.152		mg/kg wet	0.141	92%	31 - 159	11C5756	NUC3836-05	03/30/11 20:54
Surrogate: 1,2-Dichloroethane-d4		57.9		ug/kg	50.0	116%	67 - 138	11C5756	NUC3836-05	03/30/11 20:54
Surrogate: Dibromofluoromethane		51.0		ug/kg	50.0	102%	75 - 125	11C5756	NUC3836-05	03/30/11 20:54
Surrogate: Toluene-d8		47.7		ug/kg	50.0	95%	76 - 129	11C5756	NUC3836-05	03/30/11 20:54
Surrogate: 4-Bromofluorobenzene		52.8		ug/kg	50.0	106%	67 - 147	11C5756	NUC3836-05	03/30/11 20:54
<b>11C7723-MS1</b>										
Benzene	ND	3.28		mg/kg dry	3.00	109%	42 - 141	11C7723	NUC4497-06R E1	03/31/11 19:04
Ethylbenzene	0.125	3.68		mg/kg dry	3.00	118%	21 - 165	11C7723	NUC4497-06R E1	03/31/11 19:04
Naphthalene	1.02	4.16		mg/kg dry	3.00	105%	10 - 160	11C7723	NUC4497-06R E1	03/31/11 19:04
Toluene	ND	3.37		mg/kg dry	3.00	112%	45 - 145	11C7723	NUC4497-06R E1	03/31/11 19:04
Xylenes, total	0.658	11.3		mg/kg dry	9.01	118%	31 - 159	11C7723	NUC4497-06R E1	03/31/11 19:04
Surrogate: 1,2-Dichloroethane-d4		51.0		ug/kg	50.0	102%	67 - 138	11C7723	NUC4497-06R E1	03/31/11 19:04
Surrogate: Dibromofluoromethane		48.5		ug/kg	50.0	97%	75 - 125	11C7723	NUC4497-06R E1	03/31/11 19:04
Surrogate: Toluene-d8		50.6		ug/kg	50.0	101%	76 - 129	11C7723	NUC4497-06R E1	03/31/11 19:04
Surrogate: 4-Bromofluorobenzene		49.2		ug/kg	50.0	98%	67 - 147	11C7723	NUC4497-06R E1	03/31/11 19:04
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>										
<b>11C6845-MS1</b>										
Acenaphthene	ND	1.39		mg/kg dry	1.96	71%	42 - 120	11C6845	NUC4453-01	03/30/11 11:10
Acenaphthylene	ND	1.45		mg/kg dry	1.96	74%	32 - 120	11C6845	NUC4453-01	03/30/11 11:10
Anthracene	ND	1.55		mg/kg dry	1.96	79%	10 - 200	11C6845	NUC4453-01	03/30/11 11:10
Benzo (a) anthracene	ND	1.37		mg/kg dry	1.96	70%	41 - 120	11C6845	NUC4453-01	03/30/11 11:10
Benzo (a) pyrene	ND	1.46		mg/kg dry	1.96	75%	33 - 121	11C6845	NUC4453-01	03/30/11 11:10
Benzo (b) fluoranthene	ND	1.46		mg/kg dry	1.96	74%	26 - 137	11C6845	NUC4453-01	03/30/11 11:10
Benzo (g,h,i) perylene	ND	1.51		mg/kg dry	1.96	77%	21 - 124	11C6845	NUC4453-01	03/30/11 11:10
Benzo (k) fluoranthene	ND	1.38		mg/kg dry	1.96	70%	14 - 140	11C6845	NUC4453-01	03/30/11 11:10
Chrysene	ND	1.34		mg/kg dry	1.96	68%	28 - 123	11C6845	NUC4453-01	03/30/11 11:10
Dibenz (a,h) anthracene	ND	1.58		mg/kg dry	1.96	80%	25 - 127	11C6845	NUC4453-01	03/30/11 11:10

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

Work Order: NUC4497  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 03/26/11 08:25

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

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>										
<b>11C6845-MS1</b>										
Fluoranthene	ND	1.47		mg/kg dry	1.96	75%	38 - 120	11C6845	NUC4453-01	03/30/11 11:10
Fluorene	ND	1.45		mg/kg dry	1.96	74%	41 - 120	11C6845	NUC4453-01	03/30/11 11:10
Indeno (1,2,3-cd) pyrene	ND	1.59		mg/kg dry	1.96	81%	25 - 123	11C6845	NUC4453-01	03/30/11 11:10
Naphthalene	ND	1.48		mg/kg dry	1.96	75%	25 - 120	11C6845	NUC4453-01	03/30/11 11:10
Phenanthrene	ND	1.49		mg/kg dry	1.96	76%	37 - 120	11C6845	NUC4453-01	03/30/11 11:10
Pyrene	ND	1.27		mg/kg dry	1.96	65%	29 - 125	11C6845	NUC4453-01	03/30/11 11:10
1-Methylnaphthalene	ND	1.26		mg/kg dry	1.96	64%	19 - 120	11C6845	NUC4453-01	03/30/11 11:10
2-Methylnaphthalene	ND	1.38		mg/kg dry	1.96	70%	11 - 120	11C6845	NUC4453-01	03/30/11 11:10
Surrogate: Terphenyl-d14		1.02		mg/kg dry	1.96	52%	18 - 120	11C6845	NUC4453-01	03/30/11 11:10
Surrogate: 2-Fluorobiphenyl		1.23		mg/kg dry	1.96	63%	14 - 120	11C6845	NUC4453-01	03/30/11 11:10
Surrogate: Nitrobenzene-d5		1.30		mg/kg dry	1.96	66%	17 - 120	11C6845	NUC4453-01	03/30/11 11:10



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

Work Order: NUC4497  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 03/26/11 08:25

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

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
<b>Volatile Organic Compounds by EPA Method 8260B</b>												
<b>11C5756-MSD1</b>												
Benzene	0.00806	0.0506		mg/kg wet	0.0473	90%	42 - 141	0.2	50	11C5756	NUC3836-05	03/30/11 21:24
Ethylbenzene	0.00176	0.0464		mg/kg wet	0.0473	94%	21 - 165	0.7	50	11C5756	NUC3836-05	03/30/11 21:24
Naphthalene	ND	0.0342		mg/kg wet	0.0473	72%	10 - 160	17	50	11C5756	NUC3836-05	03/30/11 21:24
Toluene	0.0169	0.0620		mg/kg wet	0.0473	95%	45 - 145	8	50	11C5756	NUC3836-05	03/30/11 21:24
Xylenes, total	0.0219	0.156		mg/kg wet	0.142	94%	31 - 159	2	50	11C5756	NUC3836-05	03/30/11 21:24
Surrogate: 1,2-Dichloroethane-d4		56.2		ug/kg	50.0	112%	67 - 138			11C5756	NUC3836-05	03/30/11 21:24
Surrogate: Dibromofluoromethane		51.4		ug/kg	50.0	103%	75 - 125			11C5756	NUC3836-05	03/30/11 21:24
Surrogate: Toluene-d8		51.9		ug/kg	50.0	104%	76 - 129			11C5756	NUC3836-05	03/30/11 21:24
Surrogate: 4-Bromofluorobenzene		52.6		ug/kg	50.0	105%	67 - 147			11C5756	NUC3836-05	03/30/11 21:24
<b>11C7723-MSD1</b>												
Benzene	ND	3.28		mg/kg dry	3.00	109%	42 - 141	0.05	50	11C7723	NUC4497-06R E1	03/31/11 19:34
Ethylbenzene	0.125	3.71		mg/kg dry	3.00	119%	21 - 165	0.9	50	11C7723	NUC4497-06R E1	03/31/11 19:34
Naphthalene	1.02	4.47		mg/kg dry	3.00	115%	10 - 160	7	50	11C7723	NUC4497-06R E1	03/31/11 19:34
Toluene	ND	3.42		mg/kg dry	3.00	114%	45 - 145	2	50	11C7723	NUC4497-06R E1	03/31/11 19:34
Xylenes, total	0.658	11.4		mg/kg dry	9.01	119%	31 - 159	1	50	11C7723	NUC4497-06R E1	03/31/11 19:34
Surrogate: 1,2-Dichloroethane-d4		51.9		ug/kg	50.0	104%	67 - 138			11C7723	NUC4497-06R E1	03/31/11 19:34
Surrogate: Dibromofluoromethane		48.0		ug/kg	50.0	96%	75 - 125			11C7723	NUC4497-06R E1	03/31/11 19:34
Surrogate: Toluene-d8		50.6		ug/kg	50.0	101%	76 - 129			11C7723	NUC4497-06R E1	03/31/11 19:34
Surrogate: 4-Bromofluorobenzene		48.3		ug/kg	50.0	97%	67 - 147			11C7723	NUC4497-06R E1	03/31/11 19:34
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>												
<b>11C6845-MSD1</b>												
Acenaphthene	ND	1.34		mg/kg dry	1.96	68%	42 - 120	3	40	11C6845	NUC4453-01	03/30/11 11:28
Acenaphthylene	ND	1.43		mg/kg dry	1.96	73%	32 - 120	2	30	11C6845	NUC4453-01	03/30/11 11:28
Anthracene	ND	1.54		mg/kg dry	1.96	78%	10 - 200	1	50	11C6845	NUC4453-01	03/30/11 11:28
Benzo (a) anthracene	ND	1.33		mg/kg dry	1.96	68%	41 - 120	2	30	11C6845	NUC4453-01	03/30/11 11:28
Benzo (a) pyrene	ND	1.43		mg/kg dry	1.96	73%	33 - 121	2	33	11C6845	NUC4453-01	03/30/11 11:28
Benzo (b) fluoranthene	ND	1.39		mg/kg dry	1.96	71%	26 - 137	5	42	11C6845	NUC4453-01	03/30/11 11:28
Benzo (g,h,i) perylene	ND	1.35		mg/kg dry	1.96	69%	21 - 124	11	32	11C6845	NUC4453-01	03/30/11 11:28
Benzo (k) fluoranthene	ND	1.33		mg/kg dry	1.96	68%	14 - 140	4	39	11C6845	NUC4453-01	03/30/11 11:28
Chrysene	ND	1.28		mg/kg dry	1.96	66%	28 - 123	4	34	11C6845	NUC4453-01	03/30/11 11:28
Dibenz (a,h) anthracene	ND	1.38		mg/kg dry	1.96	70%	25 - 127	14	31	11C6845	NUC4453-01	03/30/11 11:28
Fluoranthene	ND	1.53		mg/kg dry	1.96	78%	38 - 120	4	35	11C6845	NUC4453-01	03/30/11 11:28
Fluorene	ND	1.37		mg/kg dry	1.96	70%	41 - 120	6	37	11C6845	NUC4453-01	03/30/11 11:28
Indeno (1,2,3-cd) pyrene	ND	1.42		mg/kg dry	1.96	73%	25 - 123	11	32	11C6845	NUC4453-01	03/30/11 11:28

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

Work Order: NUC4497  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 03/26/11 08:25

## PROJECT QUALITY CONTROL DATA

### Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>												
<b>11C6845-MSD1</b>												
Naphthalene	ND	1.42		mg/kg dry	1.96	72%	25 - 120	4	42	11C6845	NUC4453-01	03/30/11 11:28
Phenanthrene	ND	1.42		mg/kg dry	1.96	72%	37 - 120	5	32	11C6845	NUC4453-01	03/30/11 11:28
Pyrene	ND	1.25		mg/kg dry	1.96	64%	29 - 125	2	40	11C6845	NUC4453-01	03/30/11 11:28
1-Methylnaphthalene	ND	1.25		mg/kg dry	1.96	64%	19 - 120	1	45	11C6845	NUC4453-01	03/30/11 11:28
2-Methylnaphthalene	ND	1.36		mg/kg dry	1.96	69%	11 - 120	1	50	11C6845	NUC4453-01	03/30/11 11:28
Surrogate: Terphenyl-d14		0.994		mg/kg dry	1.96	51%	18 - 120			11C6845	NUC4453-01	03/30/11 11:28
Surrogate: 2-Fluorobiphenyl		1.21		mg/kg dry	1.96	62%	14 - 120			11C6845	NUC4453-01	03/30/11 11:28
Surrogate: Nitrobenzene-d5		1.23		mg/kg dry	1.96	63%	17 - 120			11C6845	NUC4453-01	03/30/11 11:28

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

Work Order: NUC4497  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 03/26/11 08:25

## CERTIFICATION SUMMARY

### TestAmerica Nashville

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

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

Work Order: NUC4497  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 03/26/11 08:25

## DATA QUALIFIERS AND DEFINITIONS

**J** Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).  
Concentrations within this range are estimated.

**RL1** Reporting limit raised due to sample matrix effects.

**ZX** Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

**ND** Not detected at the reporting limit (or method detection limit if shown)

## METHOD MODIFICATION NOTES

04/11/11 23:59

**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?

Fax No.: (843) 879-0401

**Sampler Signature:****Project #:**[illegible]

ATTACHMENT A



# NON-HAZARDOUS MANIFEST

<b>NON-HAZARDOUS MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of 1								
3. Generator's Mailing Address: MCAS, BEAUFORT LAUREL BAY HOUSING BEAUFORT, SC 29907				Generator's Site Address (If different than mailing):		A. Manifest Number <b>WMNA</b>		00316810						
4. Generator's Phone 843-228-6461						B. State Generator's ID								
5. Transporter 1 Company Name EEG, INC.				6. US EPA ID Number		C. State Transporter's ID								
						D. Transporter's Phone 843-879-0411								
7. Transporter 2 Company Name				8. US EPA ID Number		E. State Transporter's ID								
						F. Transporter's Phone								
9. Designated Facility Name and Site Address HICKORY HILL LANDFILL 2621 LOW COUNTRY ROAD RIDGELAND, SC 29936				10. US EPA ID Number		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				No. Type		200 765							
	WM Profile # 102655SC													
	b.													
	WM Profile #													
	c.													
	WM Profile #													
	d.													
	WM Profile #													
	J. Additional Descriptions for Materials Listed Above				K. Disposal Location									
				Cell				Level						
				Grid										
15. Special Handling Instructions and Additional Information UST's from: 2) 1124 Iris ✓ 4) 1071 Heather ✓ 6) 1039 Iris ✓ 1) 1142 Iris ✓ 3) 1010 Foxglove ✓ 5) 1068 Gardenia ✓														
Purchase Order # _____ EMERGENCY CONTACT / PHONE NO.: _____														
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.														
Printed Name Charles Herron				Signature "On behalf of" Charles H. Herron				Month 5		Day 11		Year 11		
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials													
	Printed Name James Baldwin				Signature James Baldwin				Month 5		Day 12		Year 11	
	18. Transporter 2 Acknowledgement of Receipt of Materials													
Printed Name				Signature				Month		Day		Year		
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.														
FACILITY	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.													
	Printed Name Toni Cofield				Signature Toni Cofield				Month 5		Day 12		Year 11	

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>SC09025-001</b>
Description: <b>BEALB1039TW01WG20170308</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>03/08/2017 1035</b>	
Date Received: <b>03/09/2017</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	03/13/2017 1402	ALL		36933

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzene	71-43-2	8260B	0.80	U	1.0	0.80	0.40	ug/L	2
Ethylbenzene	100-41-4	8260B	0.80	U	1.0	0.80	0.40	ug/L	2
<b>Naphthalene</b>	<b>91-20-3</b>	<b>8260B</b>	<b>3.7</b>		<b>1.0</b>	0.80	<b>0.40</b>	<b>ug/L</b>	<b>2</b>
Toluene	108-88-3	8260B	0.80	U	1.0	0.80	0.40	ug/L	2
<b>Xylenes (total)</b>	<b>1330-20-7</b>	<b>8260B</b>	<b>1.8</b>		<b>1.0</b>	0.80	<b>0.40</b>	<b>ug/L</b>	<b>2</b>

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
Bromofluorobenzene		90	85-114
Dibromofluoromethane		103	80-119
1,2-Dichloroethane-d4		89	81-118
Toluene-d8		95	89-112

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

# Semivolatile Organic Compounds by GC/MS

Client: <b>AECOM - Resolution Consultants</b>	Laboratory ID: <b>SC09025-001</b>
Description: <b>BEALB1039TW01WG20170308</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>03/08/2017 1035</b>	
Date Received: <b>03/09/2017</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	03/17/2017 1740	RBH	03/15/2017 1020	37108

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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Nitrobenzene-d5		46	44-120
2-Fluorobiphenyl		46	44-119
Terphenyl-d14		79	50-134

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

## **Appendix D**

### **Regulatory Correspondence**



August 24, 2016

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

RE: IGWA  
Laurel Bay Underground Tank Assessment Reports

Dear Mr. Drawdy:

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

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

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

If you have any questions, please contact me at [petruslb@dhec.sc.gov](mailto:petruslb@dhec.sc.gov) or 803-898-0294.

Sincerely,

Laurel Petrus, Environmental Engineer Associate  
RCRA Federal Facilities Section

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

Attachment to: Petrus to Drawdy, August 24, 2016

Subject: IGWA, Laurel Bay Underground Tank Assessment Reports

Draft Final Initial Groundwater Investigation Report for (41 addresses)

Monitoring Well Investigation Recommendation	
122 Banyan	905 Barracuda
159 Cypress Tank 2	921 Barracuda
221 Cypress	935 Albacore
283 Birch Tank 2	946 Albacore
328 Ash Tank 2	1037 Iris
346 Ash	1039 Iris
359 Aspen	1110 Iris
370 Aspen	1134 Iris
377 Aspen	1143 Iris
409 Elderberry	1202 Cardinal
486 Laurel Bay	1212 Cardinal
515 Laurel Bay	1222 Cardinal
542 Laurel Bay	1224 Cardinal
593 Aster	1226 Dove
630 Dahlia	1236 Dove
693 Camellia	1245 Dove
723 Blue Bell	1247 Dove
774 Althea	1274 Albatross
860 Dolphin	1319 Albatross
873 Cobia	1337 Albatross
883 Cobia	



July 27, 2017

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

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

Dear Mr. Drawdy:

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

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

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

If you have any questions, please contact me at [petruslb@dhec.sc.gov](mailto:petruslb@dhec.sc.gov) or 803-898-0294.

Sincerely,

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

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

Attachment to: Petrus to Drawdy Dated July 27, 2017

Draft Final Initial Groundwater Investigation Report for (52 addresses)

Permanent Well Installation recommendation (3 Addresses):

---

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

No Further Action recommendation (49 addresses):

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