

**SUMMARY REPORT**  
**727 WEST CARDINAL LANE (FORMERLY 1470 WEST CARDINAL 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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**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

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## 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 727 West Cardinal Lane (Formerly 1470 West Cardinal 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

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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 727 West Cardinal Lane (Formerly 1470 West Cardinal Lane). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1470 Cardinal Lane* (MCAS Beaufort, 2009). 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 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 August 13, 2009, a single 280 gallon heating oil UST was removed from the back yard adjacent to the car port at 727 West Cardinal Lane (Formerly 1470 West Cardinal 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

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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 4'11" 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 727 West Cardinal Lane (Formerly 1470 West Cardinal Lane) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In a letter dated April 1, 2014, SCDHEC requested an IGWA for 727 West Cardinal Lane (Formerly 1470 West Cardinal 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 February 3, 2015, a temporary monitoring well was installed at 727 West Cardinal Lane (Formerly 1470 West Cardinal 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 on Figures 2 and 3 of the UST Assessment Report (Appendix B). Further details are provided in the *Initial Groundwater Investigation Report – February 2015* (Resolution Consultants, 2015).

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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 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 727 West Cardinal Lane (Formerly 1470 West Cardinal 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 727 West Cardinal Lane (Formerly 1470 West Cardinal Lane). This NFA determination was obtained in a letter dated May 15, 2015. SCDHEC's NFA letter is provided in Appendix D.

## **4.0 REFERENCES**

Marine Corps Air Station Beaufort, 2009. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 1470 Cardinal Lane, Laurel Bay Military Housing Area*, November 2009.

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

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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**  
**727 West Cardinal Lane (Formerly 1470 West Cardinal Lane)**  
**Laurel Bay Military Housing Area**  
**Marine Corps Air Station Beaufort**  
**Beaufort, South Carolina**

Constituent	SCDHEC RBSLs <sup>(1)</sup>	Results Sample Collected 08/13/09
<b>Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)</b>		
Benzene	0.003	ND
Ethylbenzene	1.15	ND
Naphthalene	0.036	<b>0.0514</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**  
**727 West Cardinal Lane (Formerly 1470 West Cardinal Lane)**  
**Laurel Bay Military Housing Area**  
**Marine Corps Air Station Beaufort**  
**Beaufort, South Carolina**

Constituent	SCDHEC RBSLs <sup>(1)</sup>	Site-Specific Groundwater VISLs ( $\mu\text{g}/\text{L}$ ) <sup>(2)</sup>	Results Sample Collected 02/04/15
<b>Volatile Organic Compounds Analyzed by EPA Method 8260B (<math>\mu\text{g}/\text{L}</math>)</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 (<math>\mu\text{g}/\text{L}</math>)</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.

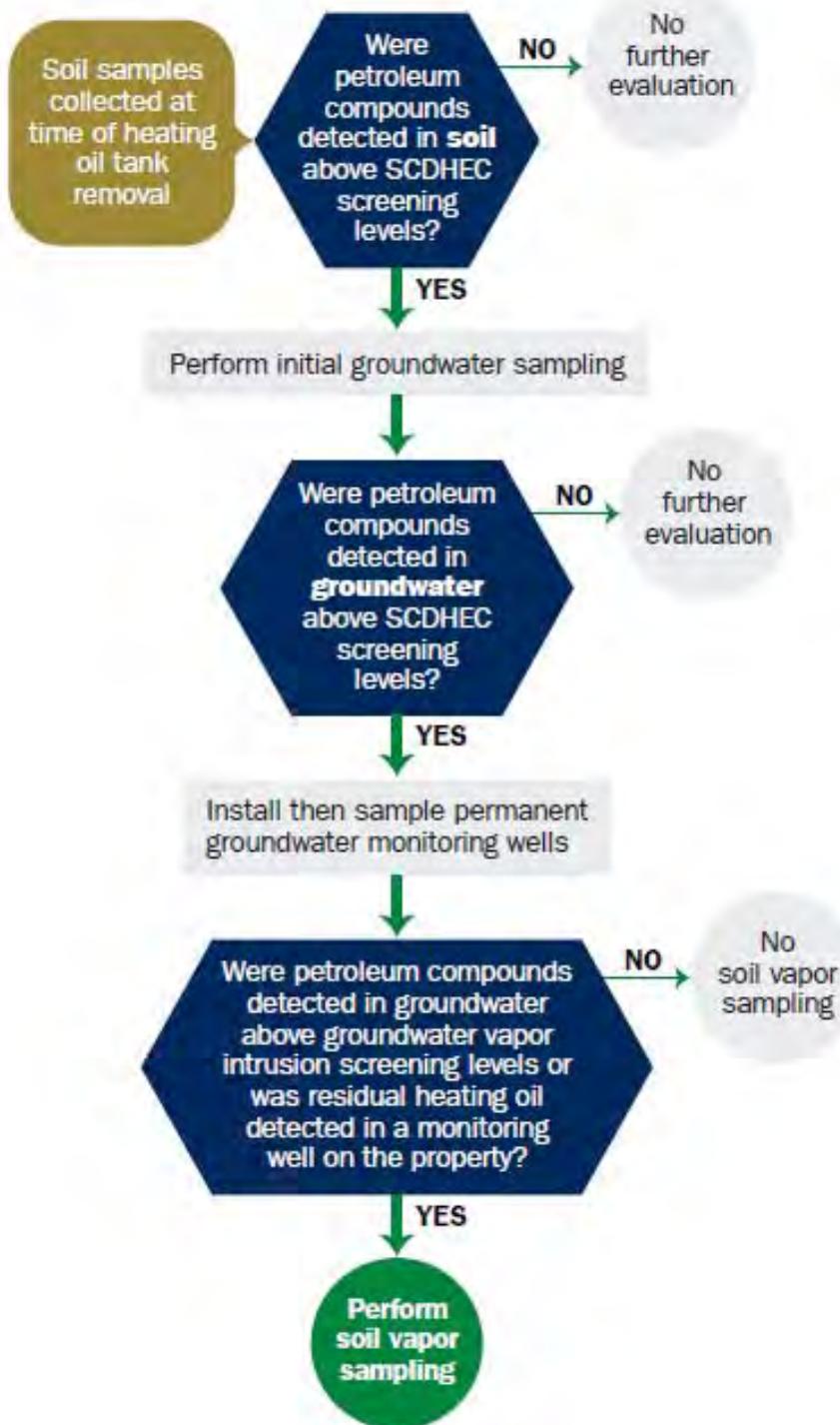
RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

$\mu\text{g}/\text{L}$  - 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**

Date Received

State Use Only

**RECEIVED**

NOV 09 2009

SC DHEC - Bureau of  
Land & Waste Management

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

<u>Beaufort,</u> City	<u>South Carolina</u> State	<u>29904-5001</u> Zip Code
<u>843</u> Area Code	<u>228-7317</u> Telephone Number	<u>Craig Ehde</u> 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

1470 Cardinal Lane, Laurel Bay Military Housing Area  
Street Address or State Road (as applicable)

<u>Beaufort,</u> City	<u>Beaufort</u> County
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### 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.....
- M. Method of disposal for any USTs removed from the ground (attach disposal manifests)  
UST 1470Cardinal was removed from the ground and disposed of at a Subtitle "D" landfill. See Attachment "A".
- 

1470Cardinal				
Heating oil				
280 gal				
Late 1950s				
Steel				
Mid 1980s				
4'11"				
No				
No				
Removed				
8/13/09				
Yes				
Yes				

- N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)  
UST 1470Cardinal 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.....

1470Cardinal				
Steel & Copper				
N/A				
N/A				
Suction				
Yes				
Yes				
No				
Late 1950s				

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

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

## VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

## IX. SITE CONDITIONS

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

## X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009001

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
1470 Cardinal	Excav at fill end	Soil	Sandy	4'11"	8/13/09 1030 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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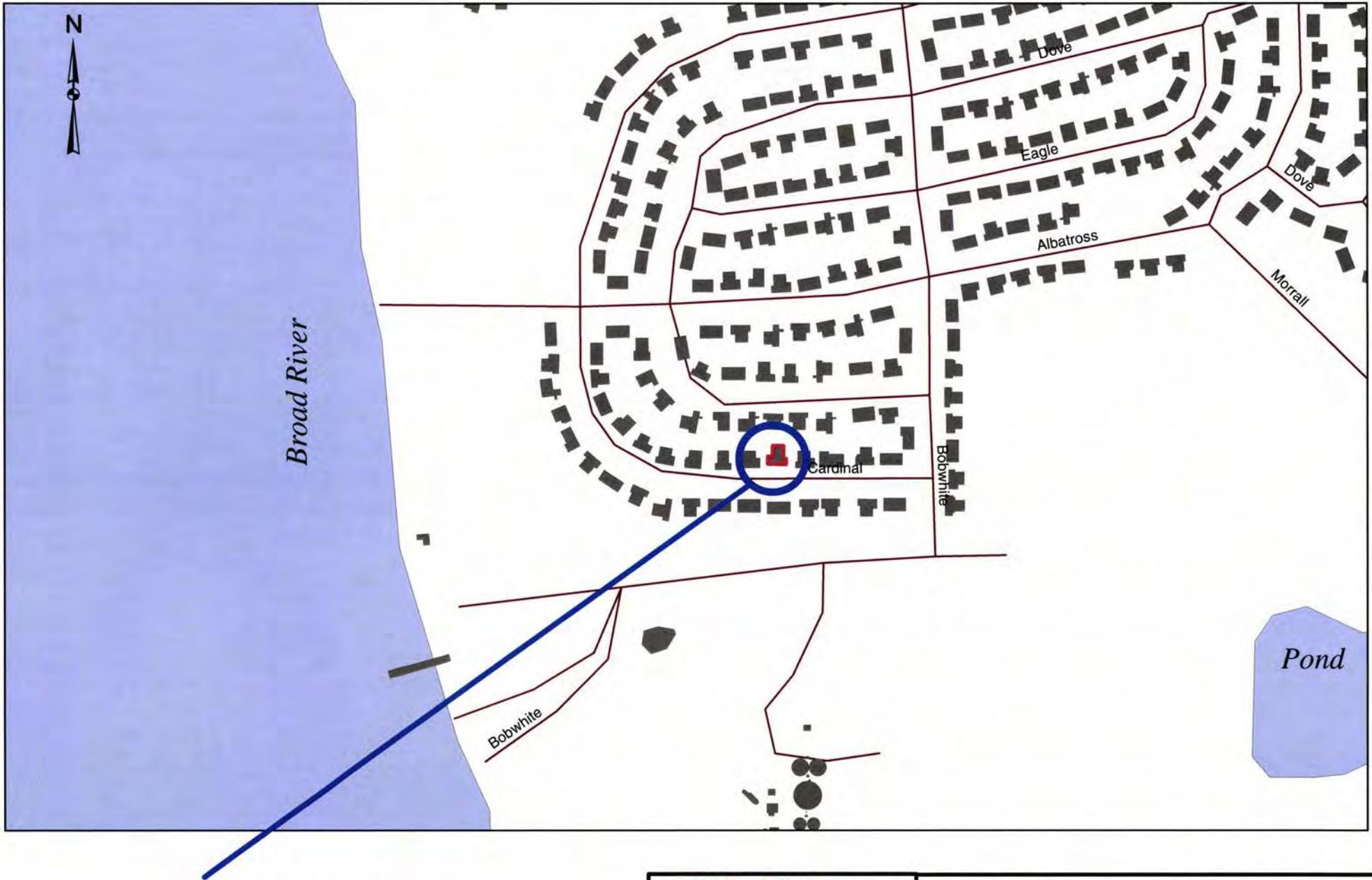
## XII. RECEPTORS

	Yes	No
A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?  If yes, indicate type of receptor, distance, and direction on site map.	*x	
B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?  If yes, indicate type of well, distance, and direction on site map.		x
C. Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?  If yes, indicate type of structure, distance, and direction on site map.		x
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 & geothermal  If yes, indicate the type of utility, distance, and direction on the site map.	*x	
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?  If yes, indicate the area of contaminated soil on the site map.		x

### **XIII. SITE MAP**

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

(Attach Site Map Here)



**SBG-EEG, Inc.**

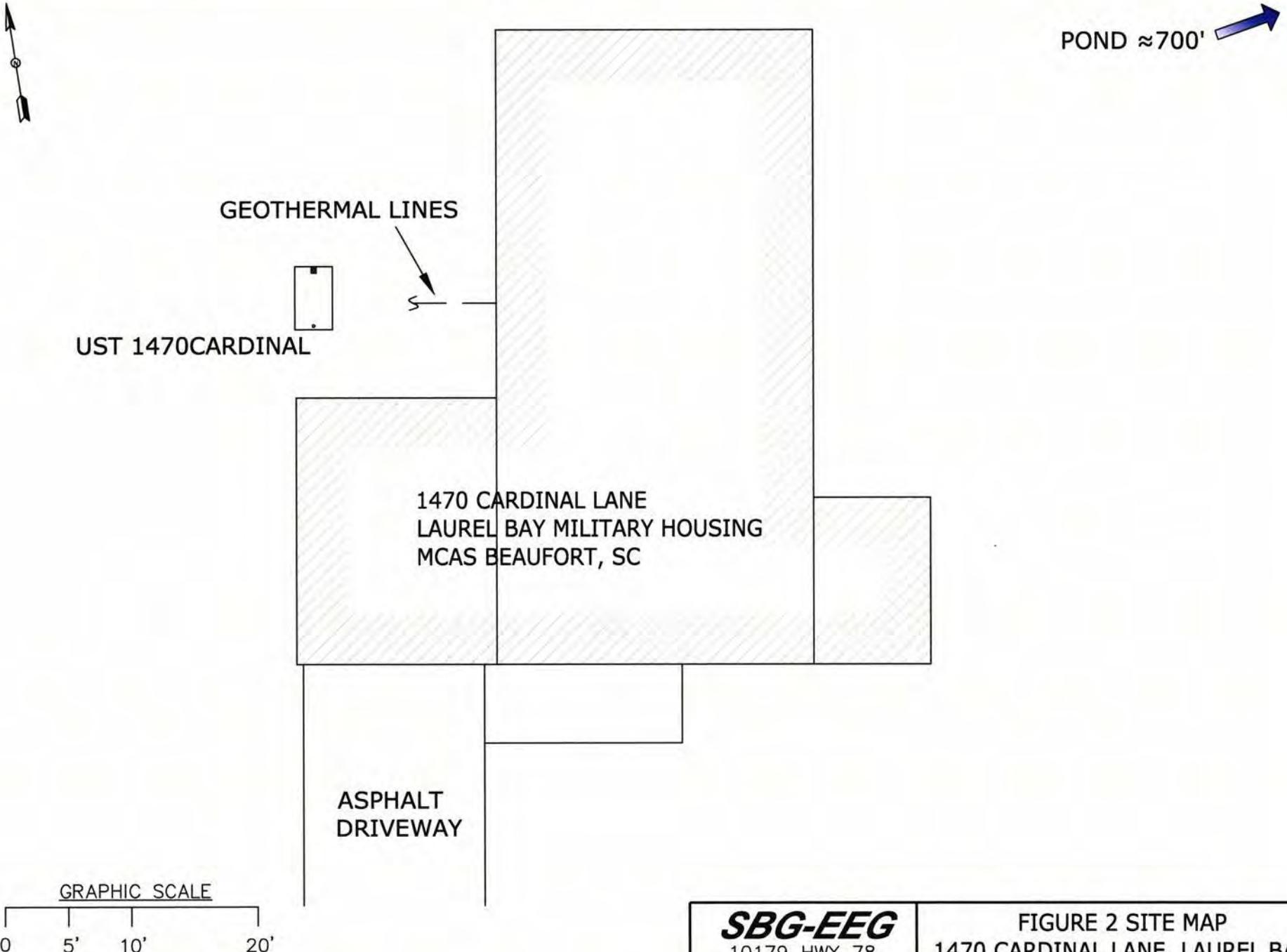
Small Business Group, Inc.  
10179 Hwy 78  
Ladson, SC 29456

Ph. (843) 879-0400

Drawn By: L. DiAsio

Dwg Date: Sept 2009

**FIGURE 1: LOCATION MAP**  
**1470 CARDINAL LANE, LAUREL BAY**  
**MCAS BEAUFORT SC**



**SBG-EEG**  
10179 HWY 78  
LADSON, SC 29456  
ph. (843) 879-0400

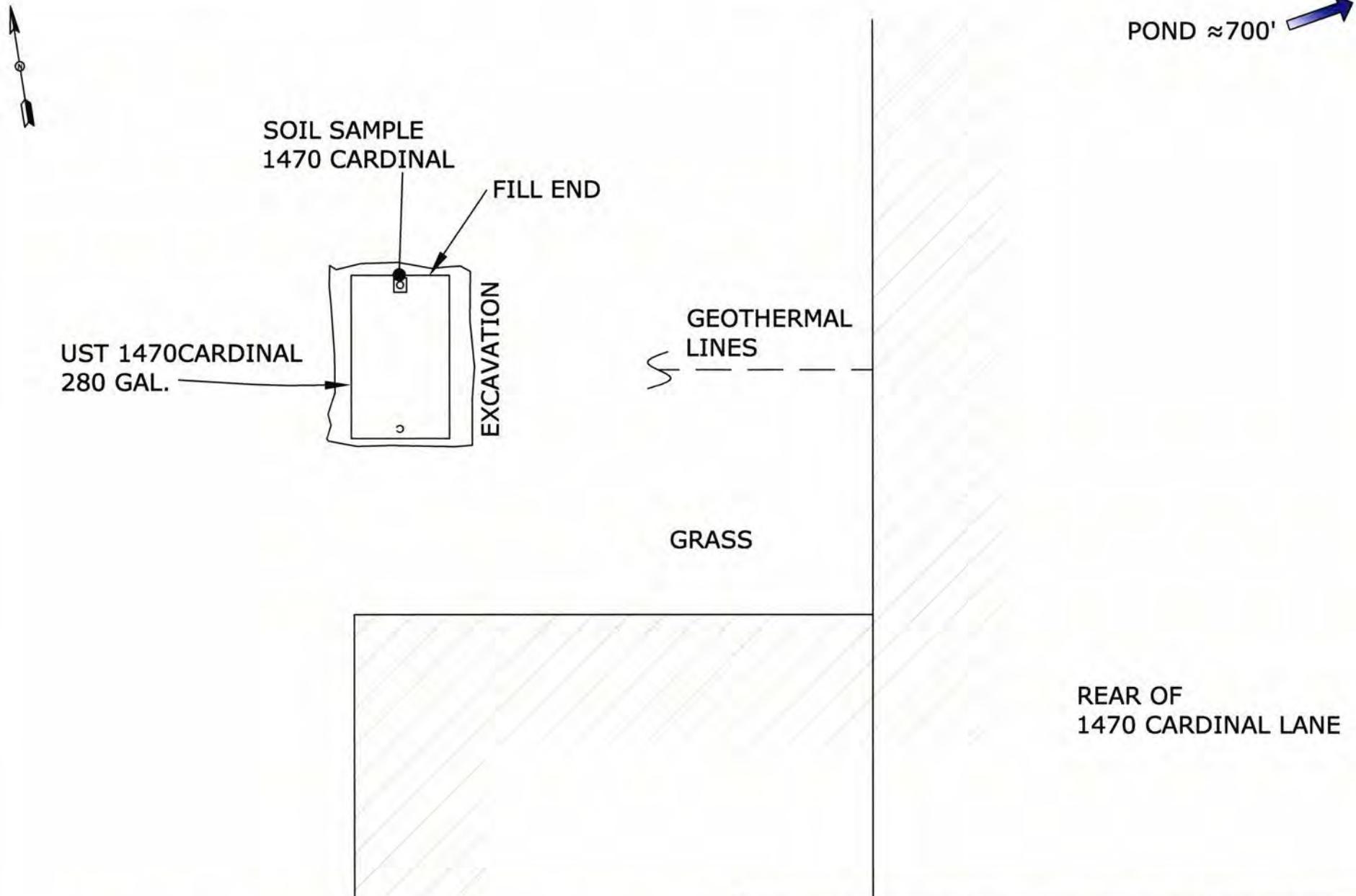
**FIGURE 2 SITE MAP**  
1470 CARDINAL LANE, LAUREL BAY  
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE SEPT 2009

GRAPHIC SCALE  
0 5'

UST 1470CARDINAL WAS  
23" BELOW GRADE.



**SBG-EEG**  
10179 HWY 78  
LADSON, SC 29456  
ph. (843) 879-0400

FIGURE 3 UST SAMPLE LOCATIONS  
1470 CARDINAL LANE, LAUREL BAY  
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE SEPT 2009



08/13/2009

Picture 1: Location of UST 1470Cardinal.



08/13/2009

Picture 2: UST 1470Cardinal.

#### **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>	<b>UST</b>	1470Cardinal						
Benzene		ND						
Toluene		ND						
Ethylbenzene		ND						
Xylenes		ND						
Naphthalene		0.0514 mg/kg						
Benzo (a) anthracene		ND						
Benzo (b) fluoranthene		ND						
Benzo (k) fluoranthene		ND						
Chrysene		ND						
Dibenz (a, h) anthracene		ND						
TPH (EPA 3550)								

<b>CoC</b>								
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 ( $\mu\text{g/l}$ )	W-1	W-2	W -3	W -4
<b>Free Product Thickness</b>	<b>None</b>				
Benzene	5				
Toluene	1,000				
Ethylbenzene	700				
Xylenes	10,000				
<b>Total BTEX</b>	<b>N/A</b>				
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)

September 09, 2009 1:17:54PM

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

Work Order: NSH1232  
Project Name: Laurel Bay Housing Project  
Project Nbr: [none]  
P/O Nbr: 08087  
Date Received: 08/14/09

**SAMPLE IDENTIFICATION****LAB NUMBER****COLLECTION DATE AND TIME**

1461 Cardinal	NSH1232-01	08/10/09 13:15
1456 Cardinal	NSH1232-02	08/10/09 10:30
1465 Cardinal	NSH1232-03	08/10/09 15:30
1469 Cardinal	NSH1232-04	08/11/09 09:15
1471 Cardinal	NSH1232-05	08/11/09 12:00
1466 Cardinal	NSH1232-06	08/11/09 15:15
1475 Cardinal	NSH1232-07	08/12/09 10:30
1473 Cardinal	NSH1232-08	08/12/09 14:30
1470 Cardinal	NSH1232-09	08/13/09 10:30

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.

**Additional Laboratory Comments:**

REVISED REPORT: 09/09/09 KAH - To correct sample ID for NSH1232-03 from 1565 Cardinal to 1465 Cardinal as shown on the COC. This report replaces the one generated on 08/28/09 @ 16:02.  
South Carolina Certification Number: 84009001

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)	Work Order:	NSH1232
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	08/14/09 08:10

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NSH1232-01 (1461 Cardinal - Soil) Sampled: 08/10/09 13:15</b>									
General Chemistry Parameters									
% Dry Solids	81.4		%	0.500	1	08/21/09 09:35	SW-846	BJM	9083242
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND		mg/kg dry	0.00212	1	08/21/09 16:32	SW846 8260B	SMS	9082342
Ethylbenzene	0.0228		mg/kg dry	0.00212	1	08/21/09 16:32	SW846 8260B	SMS	9082342
Naphthalene	0.0673		mg/kg dry	0.00530	1	08/21/09 16:32	SW846 8260B	SMS	9082342
Toluene	ND		mg/kg dry	0.00212	1	08/21/09 16:32	SW846 8260B	SMS	9082342
Xylenes, total	0.0755		mg/kg dry	0.00530	1	08/21/09 16:32	SW846 8260B	SMS	9082342
<i>Surr: 1,2-Dichloroethane-d4 (67-138%)</i>	133 %					08/21/09 16:32	SW846 8260B	SMS	9082342
<i>Surr: Dibromoformmethane (75-125%)</i>	112 %					08/21/09 16:32	SW846 8260B	SMS	9082342
<i>Surr: Toluene-d8 (76-129%)</i>	129 %					08/21/09 16:32	SW846 8260B	SMS	9082342
<i>Surr: 4-Bromofluorobenzene (67-147%)</i>	336 %	ZX				08/21/09 16:32	SW846 8260B	SMS	9082342
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	ND		mg/kg dry	0.810	10	08/22/09 05:57	SW846 8270D	JLS	9082465
Acenaphthylene	ND		mg/kg dry	0.810	10	08/22/09 05:57	SW846 8270D	JLS	9082465
Anthracene	2.14		mg/kg dry	0.810	10	08/22/09 05:57	SW846 8270D	JLS	9082465
Benzo (a) anthracene	10.5		mg/kg dry	0.810	10	08/22/09 05:57	SW846 8270D	JLS	9082465
Benzo (a) pyrene	4.71		mg/kg dry	0.810	10	08/22/09 05:57	SW846 8270D	JLS	9082465
Benzo (b) fluoranthene	5.56		mg/kg dry	0.810	10	08/22/09 05:57	SW846 8270D	JLS	9082465
Benzo (g,h,i) perylene	1.17		mg/kg dry	0.810	10	08/22/09 05:57	SW846 8270D	JLS	9082465
Benzo (k) fluoranthene	4.48		mg/kg dry	0.810	10	08/22/09 05:57	SW846 8270D	JLS	9082465
Chrysene	9.62		mg/kg dry	0.810	10	08/22/09 05:57	SW846 8270D	JLS	9082465
Dibenz (a,h) anthracene	ND		mg/kg dry	0.810	10	08/22/09 05:57	SW846 8270D	JLS	9082465
Fluoranthene	23.9		mg/kg dry	0.810	10	08/22/09 05:57	SW846 8270D	JLS	9082465
Fluorene	2.77		mg/kg dry	0.810	10	08/22/09 05:57	SW846 8270D	JLS	9082465
Indeno (1,2,3-cd) pyrene	1.37		mg/kg dry	0.810	10	08/22/09 05:57	SW846 8270D	JLS	9082465
Naphthalene	ND		mg/kg dry	0.810	10	08/22/09 05:57	SW846 8270D	JLS	9082465
Phenanthrene	7.63		mg/kg dry	0.810	10	08/22/09 05:57	SW846 8270D	JLS	9082465
Pyrene	22.6		mg/kg dry	0.810	10	08/22/09 05:57	SW846 8270D	JLS	9082465
1-Methylnaphthalene	6.05		mg/kg dry	0.810	10	08/22/09 05:57	SW846 8270D	JLS	9082465
2-Methylnaphthalene	7.79		mg/kg dry	0.810	10	08/22/09 05:57	SW846 8270D	JLS	9082465
<i>Surr: Terphenyl-d14 (18-120%)</i>	110 %					08/22/09 05:57	SW846 8270D	JLS	9082465
<i>Surr: 2-Fluorobiphenyl (14-120%)</i>	103 %					08/22/09 05:57	SW846 8270D	JLS	9082465
<i>Surr: Nitrobenzene-d5 (17-120%)</i>	144 %	ZX				08/22/09 05:57	SW846 8270D	JLS	9082465

Client	EEG - Small Business Group, Inc. (2449) 10179 Highway 78 Ladson, SC 29456	Work Order:	NSH1232
		Project Name:	Laurel Bay Housing Project
Attn	Tom McElwee	Project Number:	[none]
		Received:	08/14/09 08:10

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NSH1232-02 (1456 Cardinal - Soil) Sampled: 08/10/09 10:30</b>									
General Chemistry Parameters									
% Dry Solids									
% Dry Solids	80.6		%	0.500	1	08/21/09 09:35	SW-846	BJM	9083242
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND		mg/kg dry	0.00217	1	08/21/09 17:02	SW846 8260B	SMS	9082342
Ethylbenzene	0.669		mg/kg dry	0.106	50	08/24/09 17:09	SW846 8260B	SMS	9083618
Naphthalene	6.74		mg/kg dry	0.265	50	08/24/09 17:09	SW846 8260B	SMS	9083618
Toluene	ND		mg/kg dry	0.00217	1	08/21/09 17:02	SW846 8260B	SMS	9082342
Xylenes, total	1.71		mg/kg dry	0.265	50	08/24/09 17:09	SW846 8260B	SMS	9083618
<i>Surr: 1,2-Dichloroethane-d4 (67-138%)</i>	121 %					08/21/09 17:02	SW846 8260B	SMS	9082342
<i>Surr: 1,2-Dichloroethane-d4 (67-138%)</i>	118 %					08/24/09 17:09	SW846 8260B	SMS	9083618
<i>Surr: Dibromofluoromethane (75-125%)</i>	104 %					08/21/09 17:02	SW846 8260B	SMS	9082342
<i>Surr: Dibromofluoromethane (75-125%)</i>	95 %					08/24/09 17:09	SW846 8260B	SMS	9083618
<i>Surr: Toluene-d8 (76-129%)</i>	145 %	ZX				08/21/09 17:02	SW846 8260B	SMS	9082342
<i>Surr: Toluene-d8 (76-129%)</i>	105 %					08/24/09 17:09	SW846 8260B	SMS	9083618
<i>Surr: 4-Bromofluorobenzene (67-147%)</i>	245 %	ZX				08/21/09 17:02	SW846 8260B	SMS	9082342
<i>Surr: 4-Bromofluorobenzene (67-147%)</i>	101 %					08/24/09 17:09	SW846 8260B	SMS	9083618
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	ND		mg/kg dry	0.414	5	08/22/09 06:21	SW846 8270D	JLS	9082465
Acenaphthylene	ND		mg/kg dry	0.414	5	08/22/09 06:21	SW846 8270D	JLS	9082465
Anthracene	0.589		mg/kg dry	0.414	5	08/22/09 06:21	SW846 8270D	JLS	9082465
Benzo (a) anthracene	1.98		mg/kg dry	0.414	5	08/22/09 06:21	SW846 8270D	JLS	9082465
Benzo (a) pyrene	0.914		mg/kg dry	0.414	5	08/22/09 06:21	SW846 8270D	JLS	9082465
Benzo (b) fluoranthene	1.13		mg/kg dry	0.414	5	08/22/09 06:21	SW846 8270D	JLS	9082465
Benzo (g,h,i) perylene	ND		mg/kg dry	0.414	5	08/22/09 06:21	SW846 8270D	JLS	9082465
Benzo (k) fluoranthene	0.957		mg/kg dry	0.414	5	08/22/09 06:21	SW846 8270D	JLS	9082465
Chrysene	2.14		mg/kg dry	0.414	5	08/22/09 06:21	SW846 8270D	JLS	9082465
Dibenz (a,h) anthracene	ND		mg/kg dry	0.414	5	08/22/09 06:21	SW846 8270D	JLS	9082465
Fluoranthene	4.21		mg/kg dry	0.414	5	08/22/09 06:21	SW846 8270D	JLS	9082465
Fluorene	1.16		mg/kg dry	0.414	5	08/22/09 06:21	SW846 8270D	JLS	9082465
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.414	5	08/22/09 06:21	SW846 8270D	JLS	9082465
Naphthalene	1.19		mg/kg dry	0.414	5	08/22/09 06:21	SW846 8270D	JLS	9082465
Phenanthrene	2.99		mg/kg dry	0.414	5	08/22/09 06:21	SW846 8270D	JLS	9082465
Pyrene	3.64		mg/kg dry	0.414	5	08/22/09 06:21	SW846 8270D	JLS	9082465
1-Methylnaphthalene	5.07		mg/kg dry	0.414	5	08/22/09 06:21	SW846 8270D	JLS	9082465
2-Methylnaphthalene	6.50		mg/kg dry	0.414	5	08/22/09 06:21	SW846 8270D	JLS	9082465
<i>Surr: Terphenyl-d14 (18-120%)</i>	94 %					08/22/09 06:21	SW846 8270D	JLS	9082465
<i>Surr: 2-Fluorobiphenyl (14-120%)</i>	82 %					08/22/09 06:21	SW846 8270D	JLS	9082465
<i>Surr: Nitrobenzene-d5 (17-120%)</i>	104 %					08/22/09 06:21	SW846 8270D	JLS	9082465

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

Work Order: NSH1232  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/14/09 08:10

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NSH1232-03 (1465 Cardinal - Soil) Sampled: 08/10/09 15:30</b>									
General Chemistry Parameters									
% Dry Solids									
Benzene	ND		mg/kg dry	0.00206	1	08/21/09 09:35	SW-846	BJM	9083242
Ethylbenzene	0.404		mg/kg dry	0.110	50	08/24/09 17:38	SW846 8260B	SMS	9083618
Naphthalene	4.97		mg/kg dry	0.276	50	08/24/09 17:38	SW846 8260B	SMS	9083618
Toluene	0.0106		mg/kg dry	0.00206	1	08/21/09 17:31	SW846 8260B	SMS	9082342
Xylenes, total	1.58		mg/kg dry	0.276	50	08/24/09 17:38	SW846 8260B	SMS	9083618
<i>Surr: 1,2-Dichloroethane-d4 (67-138%)</i>	113 %					08/21/09 17:31	SW846 8260B	SMS	9082342
<i>Surr: 1,2-Dichloroethane-d4 (67-138%)</i>	130 %					08/24/09 17:38	SW846 8260B	SMS	9083618
<i>Surr: Dibromofluoromethane (75-125%)</i>	99 %					08/21/09 17:31	SW846 8260B	SMS	9082342
<i>Surr: Dibromofluoromethane (75-125%)</i>	101 %					08/24/09 17:38	SW846 8260B	SMS	9083618
<i>Surr: Toluene-d8 (76-129%)</i>	341 %	ZX				08/21/09 17:31	SW846 8260B	SMS	9082342
<i>Surr: Toluene-d8 (76-129%)</i>	97 %					08/24/09 17:38	SW846 8260B	SMS	9083618
<i>Surr: 4-Bromofluorobenzene (67-147%)</i>	4670 %	ZX				08/21/09 17:31	SW846 8260B	SMS	9082342
<i>Surr: 4-Bromofluorobenzene (67-147%)</i>	118 %					08/24/09 17:38	SW846 8260B	SMS	9083618
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	ND		mg/kg dry	0.779	10	08/22/09 06:45	SW846 8270D	JLS	9082465
Acenaphthylene	ND		mg/kg dry	0.779	10	08/22/09 06:45	SW846 8270D	JLS	9082465
Anthracene	1.22		mg/kg dry	0.779	10	08/22/09 06:45	SW846 8270D	JLS	9082465
Benzo (a) anthracene	1.16		mg/kg dry	0.779	10	08/22/09 06:45	SW846 8270D	JLS	9082465
Benzo (a) pyrene	ND		mg/kg dry	0.779	10	08/22/09 06:45	SW846 8270D	JLS	9082465
Benzo (b) fluoranthene	ND		mg/kg dry	0.779	10	08/22/09 06:45	SW846 8270D	JLS	9082465
Benzo (g,h,i) perylene	ND		mg/kg dry	0.779	10	08/22/09 06:45	SW846 8270D	JLS	9082465
Benzo (k) fluoranthene	ND		mg/kg dry	0.779	10	08/22/09 06:45	SW846 8270D	JLS	9082465
Chrysene	1.21		mg/kg dry	0.779	10	08/22/09 06:45	SW846 8270D	JLS	9082465
Dibenz (a,h) anthracene	ND		mg/kg dry	0.779	10	08/22/09 06:45	SW846 8270D	JLS	9082465
Fluoranthene	2.95		mg/kg dry	0.779	10	08/22/09 06:45	SW846 8270D	JLS	9082465
Fluorene	4.60		mg/kg dry	0.779	10	08/22/09 06:45	SW846 8270D	JLS	9082465
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.779	10	08/22/09 06:45	SW846 8270D	JLS	9082465
Naphthalene	4.08		mg/kg dry	0.779	10	08/22/09 06:45	SW846 8270D	JLS	9082465
Phenanthrene	8.05		mg/kg dry	0.779	10	08/22/09 06:45	SW846 8270D	JLS	9082465
Pyrene	2.93		mg/kg dry	0.779	10	08/22/09 06:45	SW846 8270D	JLS	9082465
1-Methylnaphthalene	19.3		mg/kg dry	0.779	10	08/22/09 06:45	SW846 8270D	JLS	9082465
2-Methylnaphthalene	23.6		mg/kg dry	0.779	10	08/22/09 06:45	SW846 8270D	JLS	9082465
<i>Surr: Terphenyl-d14 (18-120%)</i>	94 %					08/22/09 06:45	SW846 8270D	JLS	9082465
<i>Surr: 2-Fluorobiphenyl (14-120%)</i>	97 %					08/22/09 06:45	SW846 8270D	JLS	9082465
<i>Surr: Nitrobenzene-d5 (17-120%)</i>	152 %	ZX				08/22/09 06:45	SW846 8270D	JLS	9082465

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

Work Order: NSH1232  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/14/09 08:10

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NSH1232-04 (1469 Cardinal - Soil) Sampled: 08/11/09 09:15</b>									
General Chemistry Parameters									
% Dry Solids									
Benzene	ND		mg/kg dry	0.00212	1	08/21/09 09:35	SW-846	BJM	9083242
Ethylbenzene	<b>0.721</b>		mg/kg dry	0.109	50	08/24/09 18:37	SW-846 8260B	SMS	9083618
Naphthalene	<b>6.55</b>		mg/kg dry	0.273	50	08/24/09 18:37	SW-846 8260B	SMS	9083618
Toluene	ND		mg/kg dry	0.00212	1	08/21/09 18:01	SW-846 8260B	SMS	9082342
Xylenes, total	<b>0.427</b>		mg/kg dry	0.273	50	08/24/09 18:37	SW-846 8260B	SMS	9083618
Surr: 1,2-Dichloroethane-d4 (67-138%)									
Surr: 1,2-Dichloroethane-d4 (67-138%)									
Surr: Dibromofluoromethane (75-125%)									
Surr: Dibromofluoromethane (75-125%)									
Surr: Toluene-d8 (76-129%)									
Surr: Toluene-d8 (76-129%)									
Surr: 4-Bromofluorobenzene (67-147%)									
Surr: 4-Bromofluorobenzene (67-147%)									
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	ND		mg/kg dry	0.782	10	08/22/09 07:09	SW-846 8270D	JLS	9082465
Acenaphthylene	ND		mg/kg dry	0.782	10	08/22/09 07:09	SW-846 8270D	JLS	9082465
Anthracene	<b>0.817</b>		mg/kg dry	0.782	10	08/22/09 07:09	SW-846 8270D	JLS	9082465
Benzo (a) anthracene	ND		mg/kg dry	0.782	10	08/22/09 07:09	SW-846 8270D	JLS	9082465
Benzo (a) pyrene	ND		mg/kg dry	0.782	10	08/22/09 07:09	SW-846 8270D	JLS	9082465
Benzo (b) fluoranthene	ND		mg/kg dry	0.782	10	08/22/09 07:09	SW-846 8270D	JLS	9082465
Benzo (g,h,i) perylene	ND		mg/kg dry	0.782	10	08/22/09 07:09	SW-846 8270D	JLS	9082465
Benzo (k) fluoranthene	ND		mg/kg dry	0.782	10	08/22/09 07:09	SW-846 8270D	JLS	9082465
Chrysene	ND		mg/kg dry	0.782	10	08/22/09 07:09	SW-846 8270D	JLS	9082465
Dibenz (a,h) anthracene	ND		mg/kg dry	0.782	10	08/22/09 07:09	SW-846 8270D	JLS	9082465
Fluoranthene	ND		mg/kg dry	0.782	10	08/22/09 07:09	SW-846 8270D	JLS	9082465
Fluorene	<b>3.90</b>		mg/kg dry	0.782	10	08/22/09 07:09	SW-846 8270D	JLS	9082465
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.782	10	08/22/09 07:09	SW-846 8270D	JLS	9082465
Naphthalene	<b>6.18</b>		mg/kg dry	0.782	10	08/22/09 07:09	SW-846 8270D	JLS	9082465
Phenanthrene	<b>6.28</b>		mg/kg dry	0.782	10	08/22/09 07:09	SW-846 8270D	JLS	9082465
Pyrene	ND		mg/kg dry	0.782	10	08/22/09 07:09	SW-846 8270D	JLS	9082465
1-Methylnaphthalene	<b>20.4</b>		mg/kg dry	0.782	10	08/22/09 07:09	SW-846 8270D	JLS	9082465
2-Methylnaphthalene	<b>28.4</b>		mg/kg dry	0.782	10	08/22/09 07:09	SW-846 8270D	JLS	9082465
Surr: Terphenyl-d14 (18-120%)									
Surr: 2-Fluorobiphenyl (14-120%)									
Surr: Nitrobenzene-d5 (17-120%)									

Client	EEG - Small Business Group, Inc. (2449) 10179 Highway 78 Ladson, SC 29456	Work Order:	NSH1232
		Project Name:	Laurel Bay Housing Project
Attn	Tom McElwee	Project Number:	[none]
		Received:	08/14/09 08:10

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NSH1232-05 (1471 Cardinal - Soil) Sampled: 08/11/09 12:00</b>									
General Chemistry Parameters									
% Dry Solids									
	<b>82.1</b>		%	0.500	1	08/21/09 09:35	SW-846	BJM	9083242
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	<b>0.00635</b>		mg/kg dry	0.00206	1	08/21/09 18:30	SW846 8260B	SMS	9082342
Ethylbenzene	<b>0.118</b>		mg/kg dry	0.00206	1	08/21/09 18:30	SW846 8260B	SMS	9082342
Naphthalene	<b>0.393</b>		mg/kg dry	0.268	50	08/24/09 19:06	SW846 8260B	SMS	9083618
Toluene	<b>0.00316</b>		mg/kg dry	0.00206	1	08/21/09 18:30	SW846 8260B	SMS	9082342
Xylenes, total	<b>0.497</b>		mg/kg dry	0.268	50	08/24/09 19:06	SW846 8260B	SMS	9083618
<i>Surr: 1,2-Dichloroethane-d4 (67-138%)</i>	<i>112 %</i>					<i>08/21/09 18:30</i>	<i>SW846 8260B</i>	<i>SMS</i>	<i>9082342</i>
<i>Surr: 1,2-Dichloroethane-d4 (67-138%)</i>	<i>110 %</i>					<i>08/24/09 19:06</i>	<i>SW846 8260B</i>	<i>SMS</i>	<i>9083618</i>
<i>Surr: Dibromoformmethane (75-125%)</i>	<i>101 %</i>					<i>08/21/09 18:30</i>	<i>SW846 8260B</i>	<i>SMS</i>	<i>9082342</i>
<i>Surr: Dibromoformmethane (75-125%)</i>	<i>92 %</i>					<i>08/24/09 19:06</i>	<i>SW846 8260B</i>	<i>SMS</i>	<i>9083618</i>
<i>Surr: Toluene-d8 (76-129%)</i>	<i>136 %</i>	ZX				<i>08/21/09 18:30</i>	<i>SW846 8260B</i>	<i>SMS</i>	<i>9082342</i>
<i>Surr: Toluene-d8 (76-129%)</i>	<i>102 %</i>					<i>08/24/09 19:06</i>	<i>SW846 8260B</i>	<i>SMS</i>	<i>9083618</i>
<i>Surr: 4-Bromofluorobenzene (67-147%)</i>	<i>202 %</i>	ZX				<i>08/21/09 18:30</i>	<i>SW846 8260B</i>	<i>SMS</i>	<i>9082342</i>
<i>Surr: 4-Bromofluorobenzene (67-147%)</i>	<i>102 %</i>					<i>08/24/09 19:06</i>	<i>SW846 8260B</i>	<i>SMS</i>	<i>9083618</i>
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	<b>ND</b>		mg/kg dry	0.0794	1	08/21/09 21:29	SW846 8270D	JLS	9082465
Acenaphthylene	<b>ND</b>		mg/kg dry	0.0794	1	08/21/09 21:29	SW846 8270D	JLS	9082465
Anthracene	<b>0.193</b>		mg/kg dry	0.0794	1	08/21/09 21:29	SW846 8270D	JLS	9082465
Benzo (a) anthracene	<b>ND</b>		mg/kg dry	0.0794	1	08/21/09 21:29	SW846 8270D	JLS	9082465
Benzo (a) pyrene	<b>0.344</b>		mg/kg dry	0.0794	1	08/21/09 21:29	SW846 8270D	JLS	9082465
Benzo (b) fluoranthene	<b>ND</b>		mg/kg dry	0.0794	1	08/21/09 21:29	SW846 8270D	JLS	9082465
Benzo (g,h,i) perylene	<b>0.135</b>		mg/kg dry	0.0794	1	08/21/09 21:29	SW846 8270D	JLS	9082465
Benzo (k) fluoranthene	<b>ND</b>		mg/kg dry	0.0794	1	08/21/09 21:29	SW846 8270D	JLS	9082465
Chrysene	<b>ND</b>		mg/kg dry	0.0794	1	08/21/09 21:29	SW846 8270D	JLS	9082465
Dibenz (a,h) anthracene	<b>ND</b>		mg/kg dry	0.0794	1	08/21/09 21:29	SW846 8270D	JLS	9082465
Fluoranthene	<b>0.220</b>		mg/kg dry	0.0794	1	08/21/09 21:29	SW846 8270D	JLS	9082465
Fluorene	<b>ND</b>		mg/kg dry	0.0794	1	08/21/09 21:29	SW846 8270D	JLS	9082465
Indeno (1,2,3-cd) pyrene	<b>0.137</b>		mg/kg dry	0.0794	1	08/21/09 21:29	SW846 8270D	JLS	9082465
Naphthalene	<b>ND</b>		mg/kg dry	0.0794	1	08/21/09 21:29	SW846 8270D	JLS	9082465
Phenanthrene	<b>0.758</b>		mg/kg dry	0.0794	1	08/21/09 21:29	SW846 8270D	JLS	9082465
Pyrene	<b>0.102</b>		mg/kg dry	0.0794	1	08/21/09 21:29	SW846 8270D	JLS	9082465
1-Methylnaphthalene	<b>0.183</b>		mg/kg dry	0.0794	1	08/21/09 21:29	SW846 8270D	JLS	9082465
2-Methylnaphthalene	<b>0.246</b>		mg/kg dry	0.0794	1	08/21/09 21:29	SW846 8270D	JLS	9082465
<i>Surr: Terphenyl-d14 (18-120%)</i>	<i>64 %</i>					<i>08/21/09 21:29</i>	<i>SW846 8270D</i>	<i>JLS</i>	<i>9082465</i>
<i>Surr: 2-Fluorobiphenyl (14-120%)</i>	<i>76 %</i>					<i>08/21/09 21:29</i>	<i>SW846 8270D</i>	<i>JLS</i>	<i>9082465</i>
<i>Surr: Nitrobenzene-d5 (17-120%)</i>	<i>63 %</i>					<i>08/21/09 21:29</i>	<i>SW846 8270D</i>	<i>JLS</i>	<i>9082465</i>

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

Work Order: NSH1232  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/14/09 08:10

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NSH1232-06 (1466 Cardinal - Soil) Sampled: 08/11/09 15:15</b>									
General Chemistry Parameters									
% Dry Solids									
	82.7		%	0.500	1	08/21/09 09:35	SW-846	BJM	9083242
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND		mg/kg dry	0.00221	1	08/24/09 16:19	SW846 8260B	SMS	9083623
Ethylbenzene	ND		mg/kg dry	0.00221	1	08/24/09 16:19	SW846 8260B	SMS	9083623
Naphthalene	ND		mg/kg dry	0.00553	1	08/24/09 16:19	SW846 8260B	SMS	9083623
Toluene	ND		mg/kg dry	0.00221	1	08/24/09 16:19	SW846 8260B	SMS	9083623
Xylenes, total	ND		mg/kg dry	0.00553	1	08/24/09 16:19	SW846 8260B	SMS	9083623
<i>Surr: 1,2-Dichloroethane-d4 (67-138%)</i>	106 %					08/24/09 16:19	SW846 8260B	SMS	9083623
<i>Surr: Dibromoformmethane (75-125%)</i>	97 %					08/24/09 16:19	SW846 8260B	SMS	9083623
<i>Surr: Toluene-d8 (76-129%)</i>	99 %					08/24/09 16:19	SW846 8260B	SMS	9083623
<i>Surr: 4-Bromofluorobenzene (67-147%)</i>	120 %					08/24/09 16:19	SW846 8260B	SMS	9083623
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	ND	RL1	mg/kg dry	0.399	5	08/22/09 07:33	SW846 8270D	JLS	9082465
Acenaphthylene	ND	RL1	mg/kg dry	0.399	5	08/22/09 07:33	SW846 8270D	JLS	9082465
Anthracene	ND	RL1	mg/kg dry	0.399	5	08/22/09 07:33	SW846 8270D	JLS	9082465
Benzo (a) anthracene	ND	RL1	mg/kg dry	0.399	5	08/22/09 07:33	SW846 8270D	JLS	9082465
Benzo (a) pyrene	ND	RL1	mg/kg dry	0.399	5	08/22/09 07:33	SW846 8270D	JLS	9082465
Benzo (b) fluoranthene	ND	RL1	mg/kg dry	0.399	5	08/22/09 07:33	SW846 8270D	JLS	9082465
Benzo (g,h,i) perylene	ND	RL1	mg/kg dry	0.399	5	08/22/09 07:33	SW846 8270D	JLS	9082465
Benzo (k) fluoranthene	ND	RL1	mg/kg dry	0.399	5	08/22/09 07:33	SW846 8270D	JLS	9082465
Chrysene	ND	RL1	mg/kg dry	0.399	5	08/22/09 07:33	SW846 8270D	JLS	9082465
Dibenz (a,h) anthracene	ND	RL1	mg/kg dry	0.399	5	08/22/09 07:33	SW846 8270D	JLS	9082465
Fluoranthene	ND	RL1	mg/kg dry	0.399	5	08/22/09 07:33	SW846 8270D	JLS	9082465
Fluorene	ND	RL1	mg/kg dry	0.399	5	08/22/09 07:33	SW846 8270D	JLS	9082465
Indeno (1,2,3-cd) pyrene	ND	RL1	mg/kg dry	0.399	5	08/22/09 07:33	SW846 8270D	JLS	9082465
Naphthalene	ND	RL1	mg/kg dry	0.399	5	08/22/09 07:33	SW846 8270D	JLS	9082465
Phenanthrene	ND	RL1	mg/kg dry	0.399	5	08/22/09 07:33	SW846 8270D	JLS	9082465
Pyrene	ND	RL1	mg/kg dry	0.399	5	08/22/09 07:33	SW846 8270D	JLS	9082465
1-Methylnaphthalene	ND	RL1	mg/kg dry	0.399	5	08/22/09 07:33	SW846 8270D	JLS	9082465
2-Methylnaphthalene	ND	RL1	mg/kg dry	0.399	5	08/22/09 07:33	SW846 8270D	JLS	9082465
<i>Surr: Terphenyl-d14 (18-120%)</i>	95 %					08/22/09 07:33	SW846 8270D	JLS	9082465
<i>Surr: 2-Fluorobiphenyl (14-120%)</i>	81 %					08/22/09 07:33	SW846 8270D	JLS	9082465
<i>Surr: Nitrobenzene-d5 (17-120%)</i>	85 %					08/22/09 07:33	SW846 8270D	JLS	9082465

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

Work Order: NSH1232  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/14/09 08:10

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NSH1232-07 (1475 Cardinal - Soil) Sampled: 08/12/09 10:30</b>									
General Chemistry Parameters									
% Dry Solids	85.8		%	0.500	1	08/21/09 09:35	SW-846	BJM	9083242
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND		mg/kg dry	0.00214	1	08/24/09 16:49	SW846 8260B	SMS	9083623
Ethylbenzene	ND		mg/kg dry	0.00214	1	08/24/09 16:49	SW846 8260B	SMS	9083623
Naphthalene	ND		mg/kg dry	0.00536	1	08/24/09 16:49	SW846 8260B	SMS	9083623
Toluene	ND		mg/kg dry	0.00214	1	08/24/09 16:49	SW846 8260B	SMS	9083623
Xylenes, total	ND		mg/kg dry	0.00536	1	08/24/09 16:49	SW846 8260B	SMS	9083623
<i>Surr: 1,2-Dichloroethane-d4 (67-138%)</i>	93 %					08/24/09 16:49	<i>SW846 8260B</i>	<i>SMS</i>	<i>9083623</i>
<i>Surr: Dibromofluoromethane (75-125%)</i>	91 %					08/24/09 16:49	<i>SW846 8260B</i>	<i>SMS</i>	<i>9083623</i>
<i>Surr: Toluene-d8 (76-129%)</i>	103 %					08/24/09 16:49	<i>SW846 8260B</i>	<i>SMS</i>	<i>9083623</i>
<i>Surr: 4-Bromofluorobenzene (67-147%)</i>	108 %					08/24/09 16:49	<i>SW846 8260B</i>	<i>SMS</i>	<i>9083623</i>
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	ND		mg/kg dry	0.0780	1	08/21/09 22:29	SW846 8270D	JLS	9082465
Acenaphthylene	ND		mg/kg dry	0.0780	1	08/21/09 22:29	SW846 8270D	JLS	9082465
Anthracene	ND		mg/kg dry	0.0780	1	08/21/09 22:29	SW846 8270D	JLS	9082465
Benzo (a) anthracene	ND		mg/kg dry	0.0780	1	08/21/09 22:29	SW846 8270D	JLS	9082465
Benzo (a) pyrene	ND		mg/kg dry	0.0780	1	08/21/09 22:29	SW846 8270D	JLS	9082465
Benzo (b) fluoranthene	ND		mg/kg dry	0.0780	1	08/21/09 22:29	SW846 8270D	JLS	9082465
Benzo (g,h,i) perlylene	ND		mg/kg dry	0.0780	1	08/21/09 22:29	SW846 8270D	JLS	9082465
Benzo (k) fluoranthene	ND		mg/kg dry	0.0780	1	08/21/09 22:29	SW846 8270D	JLS	9082465
Chrysene	ND		mg/kg dry	0.0780	1	08/21/09 22:29	SW846 8270D	JLS	9082465
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0780	1	08/21/09 22:29	SW846 8270D	JLS	9082465
Fluoranthene	ND		mg/kg dry	0.0780	1	08/21/09 22:29	SW846 8270D	JLS	9082465
Fluorene	ND		mg/kg dry	0.0780	1	08/21/09 22:29	SW846 8270D	JLS	9082465
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0780	1	08/21/09 22:29	SW846 8270D	JLS	9082465
Naphthalene	ND		mg/kg dry	0.0780	1	08/21/09 22:29	SW846 8270D	JLS	9082465
Phenanthrene	ND		mg/kg dry	0.0780	1	08/21/09 22:29	SW846 8270D	JLS	9082465
Pyrene	ND		mg/kg dry	0.0780	1	08/21/09 22:29	SW846 8270D	JLS	9082465
1-Methylnaphthalene	ND		mg/kg dry	0.0780	1	08/21/09 22:29	SW846 8270D	JLS	9082465
2-Methylnaphthalene	ND		mg/kg dry	0.0780	1	08/21/09 22:29	SW846 8270D	JLS	9082465
<i>Surr: Terphenyl-d14 (18-120%)</i>	71 %					08/21/09 22:29	<i>SW846 8270D</i>	<i>JLS</i>	<i>9082465</i>
<i>Surr: 2-Fluorobiphenyl (14-120%)</i>	59 %					08/21/09 22:29	<i>SW846 8270D</i>	<i>JLS</i>	<i>9082465</i>
<i>Surr: Nitrobenzene-d5 (17-120%)</i>	58 %					08/21/09 22:29	<i>SW846 8270D</i>	<i>JLS</i>	<i>9082465</i>

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

Work Order: NSH1232  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/14/09 08:10

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NSH1232-08 (1473 Cardinal - Soil) Sampled: 08/12/09 14:30</b>									
General Chemistry Parameters									
% Dry Solids									
	<b>82.2</b>		%	0.500	1	08/21/09 09:35	SW-846	BJM	9083242
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND		mg/kg dry	0.00209	1	08/21/09 19:58	SW846 8260B	SMS	9082342
Ethylbenzene	<b>0.274</b>		mg/kg dry	0.110	50	08/24/09 19:36	SW846 8260B	SMS	9083618
Naphthalene	<b>0.177</b>		mg/kg dry	0.00522	1	08/21/09 19:58	SW846 8260B	SMS	9082342
Toluene	<b>0.0265</b>		mg/kg dry	0.00209	1	08/21/09 19:58	SW846 8260B	SMS	9082342
Xylenes, total	<b>1.46</b>		mg/kg dry	0.276	50	08/24/09 19:36	SW846 8260B	SMS	9083618
<i>Surr: 1,2-Dichloroethane-d4 (67-138%)</i>	<i>116 %</i>					<i>08/21/09 19:58</i>	<i>SW846 8260B</i>	<i>SMS</i>	<i>9082342</i>
<i>Surr: 1,2-Dichloroethane-d4 (67-138%)</i>	<i>121 %</i>					<i>08/24/09 19:36</i>	<i>SW846 8260B</i>	<i>SMS</i>	<i>9083618</i>
<i>Surr: Dibromofluoromethane (75-125%)</i>	<i>105 %</i>					<i>08/21/09 19:58</i>	<i>SW846 8260B</i>	<i>SMS</i>	<i>9082342</i>
<i>Surr: Dibromofluoromethane (75-125%)</i>	<i>99 %</i>					<i>08/24/09 19:36</i>	<i>SW846 8260B</i>	<i>SMS</i>	<i>9083618</i>
<i>Surr: Toluene-d8 (76-129%)</i>	<i>156 %</i>	ZX				<i>08/21/09 19:58</i>	<i>SW846 8260B</i>	<i>SMS</i>	<i>9082342</i>
<i>Surr: Toluene-d8 (76-129%)</i>	<i>102 %</i>					<i>08/24/09 19:36</i>	<i>SW846 8260B</i>	<i>SMS</i>	<i>9083618</i>
<i>Surr: 4-Bromofluorobenzene (67-147%)</i>	<i>430 %</i>	ZY				<i>08/21/09 19:58</i>	<i>SW846 8260B</i>	<i>SMS</i>	<i>9082342</i>
<i>Surr: 4-Bromofluorobenzene (67-147%)</i>	<i>113 %</i>					<i>08/24/09 19:36</i>	<i>SW846 8260B</i>	<i>SMS</i>	<i>9083618</i>
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	ND		mg/kg dry	0.789	10	08/22/09 07:57	SW846 8270D	JLS	9082465
Acenaphthylene	ND		mg/kg dry	0.789	10	08/22/09 07:57	SW846 8270D	JLS	9082465
Anthracene	ND		mg/kg dry	0.789	10	08/22/09 07:57	SW846 8270D	JLS	9082465
Benzo (a) anthracene	ND		mg/kg dry	0.789	10	08/22/09 07:57	SW846 8270D	JLS	9082465
Benzo (a) pyrene	ND		mg/kg dry	0.789	10	08/22/09 07:57	SW846 8270D	JLS	9082465
Benzo (b) fluoranthene	ND		mg/kg dry	0.789	10	08/22/09 07:57	SW846 8270D	JLS	9082465
Benzo (g,h,i) perylene	ND		mg/kg dry	0.789	10	08/22/09 07:57	SW846 8270D	JLS	9082465
Benzo (k) fluoranthene	ND		mg/kg dry	0.789	10	08/22/09 07:57	SW846 8270D	JLS	9082465
Chrysene	<b>0.813</b>		mg/kg dry	0.789	10	08/22/09 07:57	SW846 8270D	JLS	9082465
Dibenz (a,h) anthracene	ND		mg/kg dry	0.789	10	08/22/09 07:57	SW846 8270D	JLS	9082465
Fluoranthene	ND		mg/kg dry	0.789	10	08/22/09 07:57	SW846 8270D	JLS	9082465
Fluorene	<b>0.844</b>		mg/kg dry	0.789	10	08/22/09 07:57	SW846 8270D	JLS	9082465
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.789	10	08/22/09 07:57	SW846 8270D	JLS	9082465
Naphthalene	<b>0.939</b>		mg/kg dry	0.789	10	08/22/09 07:57	SW846 8270D	JLS	9082465
Phenanthrene	<b>1.23</b>		mg/kg dry	0.789	10	08/22/09 07:57	SW846 8270D	JLS	9082465
Pyrene	<b>1.27</b>		mg/kg dry	0.789	10	08/22/09 07:57	SW846 8270D	JLS	9082465
1-Methylnaphthalene	<b>3.18</b>		mg/kg dry	0.789	10	08/22/09 07:57	SW846 8270D	JLS	9082465
2-Methylnaphthalene	<b>3.40</b>		mg/kg dry	0.789	10	08/22/09 07:57	SW846 8270D	JLS	9082465
<i>Surr: Terphenyl-d14 (18-120%)</i>	<i>94 %</i>					<i>08/22/09 07:57</i>	<i>SW846 8270D</i>	<i>JLS</i>	<i>9082465</i>
<i>Surr: 2-Fluorobiphenyl (14-120%)</i>	<i>89 %</i>					<i>08/22/09 07:57</i>	<i>SW846 8270D</i>	<i>JLS</i>	<i>9082465</i>
<i>Surr: Nitrobenzene-d5 (17-120%)</i>	<i>94 %</i>					<i>08/22/09 07:57</i>	<i>SW846 8270D</i>	<i>JLS</i>	<i>9082465</i>

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

Work Order: NSH1232  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/14/09 08:10

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NSH1232-09 (1470 Cardinal - Soil) Sampled: 08/13/09 10:30</b>									
General Chemistry Parameters									
% Dry Solids	79.6		%	0.500	1	08/21/09 09:35	SW-846	BJM	9083242
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND		mg/kg dry	0.00219	1	08/21/09 20:28	SW846 8260B	SMS	9082342
Ethylbenzene	ND		mg/kg dry	0.00219	1	08/21/09 20:28	SW846 8260B	SMS	9082342
Naphthalene	0.0514		mg/kg dry	0.00548	1	08/21/09 20:28	SW846 8260B	SMS	9082342
Toluene	ND		mg/kg dry	0.00219	1	08/21/09 20:28	SW846 8260B	SMS	9082342
Xylenes, total	ND		mg/kg dry	0.00548	1	08/21/09 20:28	SW846 8260B	SMS	9082342
<i>Surr: 1,2-Dichloroethane-d4 (67-138%)</i>	113 %					08/21/09 20:28	SW846 8260B	SMS	9082342
<i>Surr: Dibromofluoromethane (75-125%)</i>	102 %					08/21/09 20:28	SW846 8260B	SMS	9082342
<i>Surr: Toluene-d8 (76-129%)</i>	108 %					08/21/09 20:28	SW846 8260B	SMS	9082342
<i>Surr: 4-Bromofluorobenzene (67-147%)</i>	129 %					08/21/09 20:28	SW846 8260B	SMS	9082342
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	ND	RL1	mg/kg dry	0.838	10	08/22/09 08:21	SW846 8270D	JLS	9082465
Acenaphthylene	ND	RL1	mg/kg dry	0.838	10	08/22/09 08:21	SW846 8270D	JLS	9082465
Anthracene	ND	RL1	mg/kg dry	0.838	10	08/22/09 08:21	SW846 8270D	JLS	9082465
Benzo (a) anthracene	ND	RL1	mg/kg dry	0.838	10	08/22/09 08:21	SW846 8270D	JLS	9082465
Benzo (a) pyrene	ND	RL1	mg/kg dry	0.838	10	08/22/09 08:21	SW846 8270D	JLS	9082465
Benzo (b) fluoranthene	ND	RL1	mg/kg dry	0.838	10	08/22/09 08:21	SW846 8270D	JLS	9082465
Benzo (g,h,i) perylene	ND	RL1	mg/kg dry	0.838	10	08/22/09 08:21	SW846 8270D	JLS	9082465
Benzo (k) fluoranthene	ND	RL1	mg/kg dry	0.838	10	08/22/09 08:21	SW846 8270D	JLS	9082465
Chrysene	ND	RL1	mg/kg dry	0.838	10	08/22/09 08:21	SW846 8270D	JLS	9082465
Dibenz (a,h) anthracene	ND	RL1	mg/kg dry	0.838	10	08/22/09 08:21	SW846 8270D	JLS	9082465
Fluoranthene	ND	RL1	mg/kg dry	0.838	10	08/22/09 08:21	SW846 8270D	JLS	9082465
Fluorene	ND	RL1	mg/kg dry	0.838	10	08/22/09 08:21	SW846 8270D	JLS	9082465
Indeno (1,2,3-cd) pyrene	ND	RL1	mg/kg dry	0.838	10	08/22/09 08:21	SW846 8270D	JLS	9082465
Naphthalene	ND	RL1	mg/kg dry	0.838	10	08/22/09 08:21	SW846 8270D	JLS	9082465
Phenanthrene	ND	RL1	mg/kg dry	0.838	10	08/22/09 08:21	SW846 8270D	JLS	9082465
Pyrene	ND	RL1	mg/kg dry	0.838	10	08/22/09 08:21	SW846 8270D	JLS	9082465
1-Methylnaphthalene	ND	RL1	mg/kg dry	0.838	10	08/22/09 08:21	SW846 8270D	JLS	9082465
2-Methylnaphthalene	ND	RL1	mg/kg dry	0.838	10	08/22/09 08:21	SW846 8270D	JLS	9082465
<i>Surr: Terphenyl-d14 (18-120%)</i>	107 %					08/22/09 08:21	SW846 8270D	JLS	9082465
<i>Surr: 2-Fluorobiphenyl (14-120%)</i>	97 %					08/22/09 08:21	SW846 8270D	JLS	9082465
<i>Surr: Nitrobenzene-d5 (17-120%)</i>	112 %					08/22/09 08:21	SW846 8270D	JLS	9082465

Client EEG - Small Business Group, Inc. (2449) Work Order: NSH1232  
10179 Highway 78 Project Name: Laurel Bay Housing Project  
Ladson, SC 29456 Project Number: [none]  
Attn Tom McElwee Received: 08/14/09 08:10

## SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>							
SW846 8270D	9082465	NSH1232-01	30.47	1.00	08/19/09 15:30	TEM	EPA 3550C
SW846 8270D	9082465	NSH1232-01RE1	30.47	1.00	08/19/09 15:30	TEM	EPA 3550C
SW846 8270D	9082465	NSH1232-02	30.13	1.00	08/19/09 15:30	TEM	EPA 3550C
SW846 8270D	9082465	NSH1232-02RE1	30.13	1.00	08/19/09 15:30	TEM	EPA 3550C
SW846 8270D	9082465	NSH1232-03	30.86	1.00	08/19/09 15:30	TEM	EPA 3550C
SW846 8270D	9082465	NSH1232-03RE1	30.86	1.00	08/19/09 15:30	TEM	EPA 3550C
SW846 8270D	9082465	NSH1232-04	30.59	1.00	08/19/09 15:30	TEM	EPA 3550C
SW846 8270D	9082465	NSH1232-04RE1	30.59	1.00	08/19/09 15:30	TEM	EPA 3550C
SW846 8270D	9082465	NSH1232-05	30.85	1.00	08/19/09 15:30	TEM	EPA 3550C
SW846 8270D	9082465	NSH1232-06	30.42	1.00	08/19/09 15:30	TEM	EPA 3550C
SW846 8270D	9082465	NSH1232-06RE1	30.42	1.00	08/19/09 15:30	TEM	EPA 3550C
SW846 8270D	9082465	NSH1232-07	30.04	1.00	08/19/09 15:30	TEM	EPA 3550C
SW846 8270D	9082465	NSH1232-08	30.98	1.00	08/19/09 15:30	TEM	EPA 3550C
SW846 8270D	9082465	NSH1232-08RE1	30.98	1.00	08/19/09 15:30	TEM	EPA 3550C
SW846 8270D	9082465	NSH1232-09	30.15	1.00	08/19/09 15:30	TEM	EPA 3550C
SW846 8270D	9082465	NSH1232-09RE1	30.15	1.00	08/19/09 15:30	TEM	EPA 3550C
<b>Selected Volatile Organic Compounds by EPA Method 8260B</b>							
SW846 8260B	9082342	NSH1232-01	5.80	5.00	08/10/09 13:15	CHH	EPA 5035
SW846 8260B	9082342	NSH1232-02	5.73	5.00	08/10/09 10:30	CHH	EPA 5035
SW846 8260B	9083618	NSH1232-02RE1	5.85	5.00	08/10/09 10:30	CHH	EPA 5035
SW846 8260B	9082342	NSH1232-03	5.81	5.00	08/10/09 15:30	CHH	EPA 5035
SW846 8260B	9083618	NSH1232-03RE1	5.42	5.00	08/10/09 15:30	CHH	EPA 5035
SW846 8260B	9083618	NSH1232-03RE2	5.42	5.00	08/10/09 15:30	CHH	EPA 5035
SW846 8260B	9082342	NSH1232-04	5.62	5.00	08/11/09 09:15	CHH	EPA 5035
SW846 8260B	9083618	NSH1232-04RE1	5.45	5.00	08/11/09 09:15	CHH	EPA 5035
SW846 8260B	9082342	NSH1232-05	5.92	5.00	08/11/09 12:00	CHH	EPA 5035
SW846 8260B	9083618	NSH1232-05RE1	5.69	5.00	08/11/09 12:00	CHH	EPA 5035
SW846 8260B	9082342	NSH1232-06	5.49	5.00	08/11/09 15:15	CHH	EPA 5035
SW846 8260B	9083623	NSH1232-06RE1	5.47	5.00	08/11/09 15:15	CHH	EPA 5035
SW846 8260B	9082342	NSH1232-07	5.79	5.00	08/12/09 10:30	CHH	EPA 5035
SW846 8260B	9083623	NSH1232-07RE1	5.44	5.00	08/12/09 10:30	CHH	EPA 5035
SW846 8260B	9082342	NSH1232-08	5.83	5.00	08/12/09 14:30	CHH	EPA 5035
SW846 8260B	9083618	NSH1232-08RE1	5.51	5.00	08/12/09 14:30	CHH	EPA 5035
SW846 8260B	9082342	NSH1232-09	5.73	5.00	08/13/09 10:30	CHH	EPA 5035
SW846 8260B	9082342	NSH1232-09RE1	5.60	5.00	08/13/09 10:30	CHH	EPA 5035

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

Work Order: NSH1232  
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Received: 08/14/09 08:10

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

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

**9082342-BLK1**

Benzene	<0.000670		mg/kg wet	9082342	9082342-BLK1	08/21/09 14:46
Ethylbenzene	<0.000670		mg/kg wet	9082342	9082342-BLK1	08/21/09 14:46
Naphthalene	<0.00170		mg/kg wet	9082342	9082342-BLK1	08/21/09 14:46
Toluene	<0.000400		mg/kg wet	9082342	9082342-BLK1	08/21/09 14:46
Xylenes, total	<0.00130		mg/kg wet	9082342	9082342-BLK1	08/21/09 14:46
<i>Surrogate: 1,2-Dichloroethane-d4</i>	124%			9082342	9082342-BLK1	08/21/09 14:46
<i>Surrogate: Dibromofluoromethane</i>	110%			9082342	9082342-BLK1	08/21/09 14:46
<i>Surrogate: Toluene-d8</i>	100%			9082342	9082342-BLK1	08/21/09 14:46
<i>Surrogate: 4-Bromofluorobenzene</i>	103%			9082342	9082342-BLK1	08/21/09 14:46

**9083618-BLK1**

Benzene	<0.000670		mg/kg wet	9083618	9083618-BLK1	08/24/09 13:21
Ethylbenzene	<0.000670		mg/kg wet	9083618	9083618-BLK1	08/24/09 13:21
Naphthalene	<0.00170		mg/kg wet	9083618	9083618-BLK1	08/24/09 13:21
Toluene	<0.000400		mg/kg wet	9083618	9083618-BLK1	08/24/09 13:21
Xylenes, total	<0.00130		mg/kg wet	9083618	9083618-BLK1	08/24/09 13:21
<i>Surrogate: 1,2-Dichloroethane-d4</i>	125%			9083618	9083618-BLK1	08/24/09 13:21
<i>Surrogate: Dibromofluoromethane</i>	102%			9083618	9083618-BLK1	08/24/09 13:21
<i>Surrogate: Toluene-d8</i>	104%			9083618	9083618-BLK1	08/24/09 13:21
<i>Surrogate: 4-Bromofluorobenzene</i>	109%			9083618	9083618-BLK1	08/24/09 13:21

**9083623-BLK1**

Benzene	<0.000670		mg/kg wet	9083623	9083623-BLK1	08/24/09 13:34
Ethylbenzene	<0.000670		mg/kg wet	9083623	9083623-BLK1	08/24/09 13:34
Naphthalene	<0.00170		mg/kg wet	9083623	9083623-BLK1	08/24/09 13:34
Toluene	<0.000400		mg/kg wet	9083623	9083623-BLK1	08/24/09 13:34
Xylenes, total	<0.00130		mg/kg wet	9083623	9083623-BLK1	08/24/09 13:34
<i>Surrogate: 1,2-Dichloroethane-d4</i>	101%			9083623	9083623-BLK1	08/24/09 13:34
<i>Surrogate: Dibromofluoromethane</i>	95%			9083623	9083623-BLK1	08/24/09 13:34
<i>Surrogate: Toluene-d8</i>	96%			9083623	9083623-BLK1	08/24/09 13:34
<i>Surrogate: 4-Bromofluorobenzene</i>	99%			9083623	9083623-BLK1	08/24/09 13:34

**Polyaromatic Hydrocarbons by EPA 8270D****9082465-BLK1**

Acenaphthene	<0.0320		mg/kg wet	9082465	9082465-BLK1	08/21/09 17:01
Acenaphthylene	<0.0310		mg/kg wet	9082465	9082465-BLK1	08/21/09 17:01
Anthracene	<0.0330		mg/kg wet	9082465	9082465-BLK1	08/21/09 17:01
Benzo (a) anthracene	<0.0380		mg/kg wet	9082465	9082465-BLK1	08/21/09 17:01
Benzo (a) pyrene	<0.0300		mg/kg wet	9082465	9082465-BLK1	08/21/09 17:01
Benzo (b) fluoranthene	<0.0300		mg/kg wet	9082465	9082465-BLK1	08/21/09 17:01
Benzo (g,h,i) perylene	<0.0300		mg/kg wet	9082465	9082465-BLK1	08/21/09 17:01

Client EEG - Small Business Group, Inc. (2449)  
10179 Highway 78  
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Received: 08/14/09 08:10

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

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>						
<b>9082465-BLK1</b>						
Benzo (k) fluoranthene	<0.0300		mg/kg wet	9082465	9082465-BLK1	08/21/09 17:01
Chrysene	<0.0400		mg/kg wet	9082465	9082465-BLK1	08/21/09 17:01
Dibenz (a,h) anthracene	<0.0310		mg/kg wet	9082465	9082465-BLK1	08/21/09 17:01
Fluoranthene	<0.0340		mg/kg wet	9082465	9082465-BLK1	08/21/09 17:01
Fluorene	<0.0360		mg/kg wet	9082465	9082465-BLK1	08/21/09 17:01
Indeno (1,2,3-cd) pyrene	<0.0310		mg/kg wet	9082465	9082465-BLK1	08/21/09 17:01
Naphthalene	<0.0410		mg/kg wet	9082465	9082465-BLK1	08/21/09 17:01
Phenanthrene	<0.0340		mg/kg wet	9082465	9082465-BLK1	08/21/09 17:01
Pyrene	<0.0410		mg/kg wet	9082465	9082465-BLK1	08/21/09 17:01
<i>Surrogate: Terphenyl-d14</i>	82%			9082465	9082465-BLK1	08/21/09 17:01
<i>Surrogate: 2-Fluorobiphenyl</i>	72%			9082465	9082465-BLK1	08/21/09 17:01
<i>Surrogate: Nitrobenzene-d5</i>	69%			9082465	9082465-BLK1	08/21/09 17:01

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## 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>9083242-DUP1</b>										
% Dry Solids	82.9	82.9		%	0	20	9083242	NSH1220-01		08/21/09 09:35

Client EEG - Small Business Group, Inc. (2449)  
10179 Highway 78  
Ladson, SC 29456  
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Work Order: NSH1232  
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Project Number: [none]  
Received: 08/14/09 08:10

## PROJECT QUALITY CONTROL DATA LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
<b>Selected Volatile Organic Compounds by EPA Method 8260B</b>								
<b>9082342-BS1</b>								
Benzene	50.0	45.3		ug/kg	91%	78 - 126	9082342	08/21/09 12:48
Ethylbenzene	50.0	45.1		ug/kg	90%	79 - 130	9082342	08/21/09 12:48
Naphthalene	50.0	44.3		ug/kg	89%	72 - 150	9082342	08/21/09 12:48
Toluene	50.0	45.0		ug/kg	90%	76 - 126	9082342	08/21/09 12:48
Xylenes, total	150	140		ug/kg	93%	80 - 130	9082342	08/21/09 12:48
<i>Surrogate: 1,2-Dichloroethane-d4</i>	50.0	60.9			122%	67 - 138	9082342	08/21/09 12:48
<i>Surrogate: Dibromofluoromethane</i>	50.0	54.6			109%	75 - 125	9082342	08/21/09 12:48
<i>Surrogate: Toluene-d8</i>	50.0	50.5			101%	76 - 129	9082342	08/21/09 12:48
<i>Surrogate: 4-Bromofluorobenzene</i>	50.0	47.8			96%	67 - 147	9082342	08/21/09 12:48
<b>9083618-BS1</b>								
Benzene	50.0	49.2		ug/kg	98%	78 - 126	9083618	08/24/09 11:23
Ethylbenzene	50.0	47.9		ug/kg	96%	79 - 130	9083618	08/24/09 11:23
Naphthalene	50.0	49.8		ug/kg	100%	72 - 150	9083618	08/24/09 11:23
Toluene	50.0	48.0		ug/kg	96%	76 - 126	9083618	08/24/09 11:23
Xylenes, total	150	147		ug/kg	98%	80 - 130	9083618	08/24/09 11:23
<i>Surrogate: 1,2-Dichloroethane-d4</i>	50.0	56.5			113%	67 - 138	9083618	08/24/09 11:23
<i>Surrogate: Dibromofluoromethane</i>	50.0	53.1			106%	75 - 125	9083618	08/24/09 11:23
<i>Surrogate: Toluene-d8</i>	50.0	50.1			100%	76 - 129	9083618	08/24/09 11:23
<i>Surrogate: 4-Bromofluorobenzene</i>	50.0	48.8			98%	67 - 147	9083618	08/24/09 11:23
<b>9083623-BS1</b>								
Benzene	50.0	56.1		ug/kg	112%	78 - 126	9083623	08/24/09 11:32
Ethylbenzene	50.0	60.3		ug/kg	121%	79 - 130	9083623	08/24/09 11:32
Naphthalene	50.0	59.7		ug/kg	119%	72 - 150	9083623	08/24/09 11:32
Toluene	50.0	57.4		ug/kg	115%	76 - 126	9083623	08/24/09 11:32
Xylenes, total	150	181		ug/kg	121%	80 - 130	9083623	08/24/09 11:32
<i>Surrogate: 1,2-Dichloroethane-d4</i>	50.0	50.9			102%	67 - 138	9083623	08/24/09 11:32
<i>Surrogate: Dibromofluoromethane</i>	50.0	50.0			100%	75 - 125	9083623	08/24/09 11:32
<i>Surrogate: Toluene-d8</i>	50.0	50.0			100%	76 - 129	9083623	08/24/09 11:32
<i>Surrogate: 4-Bromofluorobenzene</i>	50.0	50.0			100%	67 - 147	9083623	08/24/09 11:32
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>								
<b>9082465-BS1</b>								
Acenaphthene	1.67	1.16		mg/kg wet	70%	49 - 120	9082465	08/21/09 17:31
Acenaphthylene	1.67	1.16		mg/kg wet	69%	52 - 120	9082465	08/21/09 17:31
Anthracene	1.67	1.31		mg/kg wet	79%	58 - 120	9082465	08/21/09 17:31
Benzo (a) anthracene	1.67	1.25		mg/kg wet	75%	57 - 120	9082465	08/21/09 17:31
Benzo (a) pyrene	1.67	1.33		mg/kg wet	80%	55 - 120	9082465	08/21/09 17:31
Benzo (b) fluoranthene	1.67	1.27		mg/kg wet	76%	51 - 123	9082465	08/21/09 17:31
Benzo (g,h,i) perylene	1.67	1.20		mg/kg wet	72%	49 - 121	9082465	08/21/09 17:31

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Received: 08/14/09 08:10

**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>9082465-BS1</b>								
Benzo (k) fluoranthene	1.67	1.25		mg/kg wet	75%	42 - 129	9082465	08/21/09 17:31
Chrysene	1.67	1.22		mg/kg wet	73%	55 - 120	9082465	08/21/09 17:31
Dibenz (a,h) anthracene	1.67	1.27		mg/kg wet	76%	50 - 123	9082465	08/21/09 17:31
Fluoranthene	1.67	1.28		mg/kg wet	77%	58 - 120	9082465	08/21/09 17:31
Fluorene	1.67	1.35		mg/kg wet	81%	54 - 120	9082465	08/21/09 17:31
Indeno (1,2,3-cd) pyrene	1.67	1.26		mg/kg wet	76%	50 - 122	9082465	08/21/09 17:31
Naphthalene	1.67	1.11		mg/kg wet	67%	28 - 120	9082465	08/21/09 17:31
Phenanthrene	1.67	1.16		mg/kg wet	70%	56 - 120	9082465	08/21/09 17:31
Pyrene	1.67	1.21		mg/kg wet	73%	56 - 120	9082465	08/21/09 17:31
<i>Surrogate: Terphenyl-d14</i>	1.67	1.33			80%	18 - 120	9082465	08/21/09 17:31
<i>Surrogate: 2-Fluorobiphenyl</i>	1.67	1.27			76%	14 - 120	9082465	08/21/09 17:31
<i>Surrogate: Nitrobenzene-d5</i>	1.67	1.25			75%	17 - 120	9082465	08/21/09 17:31

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Work Order: NSH1232  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/14/09 08:10

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

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
<b>Selected Volatile Organic Compounds by EPA Method 8260B</b>												
<b>9082342-BSD1</b>												
Benzene	44.2			ug/kg	50.0	88%	78 - 126	2	50	9082342		08/21/09 13:18
Ethylbenzene	46.7			ug/kg	50.0	93%	79 - 130	3	50	9082342		08/21/09 13:18
Naphthalene	46.6			ug/kg	50.0	93%	72 - 150	5	50	9082342		08/21/09 13:18
Toluene	45.8			ug/kg	50.0	92%	76 - 126	2	50	9082342		08/21/09 13:18
Xylenes, total	144			ug/kg	150	96%	80 - 130	3	50	9082342		08/21/09 13:18
<i>Surrogate: 1,2-Dichloroethane-d4</i>	60.0			ug/kg	50.0	120%	67 - 138			9082342		08/21/09 13:18
<i>Surrogate: Dibromofluoromethane</i>	45.4			ug/kg	50.0	91%	75 - 125			9082342		08/21/09 13:18
<i>Surrogate: Toluene-d8</i>	49.8			ug/kg	50.0	100%	76 - 129			9082342		08/21/09 13:18
<i>Surrogate: 4-Bromofluorobenzene</i>	46.6			ug/kg	50.0	93%	67 - 147			9082342		08/21/09 13:18
<b>9083618-BSD1</b>												
Benzene	48.9			ug/kg	50.0	98%	78 - 126	0.6	50	9083618		08/24/09 11:53
Ethylbenzene	50.9			ug/kg	50.0	102%	79 - 130	6	50	9083618		08/24/09 11:53
Naphthalene	47.5			ug/kg	50.0	95%	72 - 150	5	50	9083618		08/24/09 11:53
Toluene	53.0			ug/kg	50.0	106%	76 - 126	10	50	9083618		08/24/09 11:53
Xylenes, total	159			ug/kg	150	106%	80 - 130	8	50	9083618		08/24/09 11:53
<i>Surrogate: 1,2-Dichloroethane-d4</i>	61.7			ug/kg	50.0	123%	67 - 138			9083618		08/24/09 11:53
<i>Surrogate: Dibromofluoromethane</i>	54.3			ug/kg	50.0	109%	75 - 125			9083618		08/24/09 11:53
<i>Surrogate: Toluene-d8</i>	54.3			ug/kg	50.0	109%	76 - 129			9083618		08/24/09 11:53
<i>Surrogate: 4-Bromofluorobenzene</i>	50.6			ug/kg	50.0	101%	67 - 147			9083618		08/24/09 11:53
<b>9083623-BSD1</b>												
Benzene	53.1			ug/kg	50.0	106%	78 - 126	6	50	9083623		08/24/09 12:04
Ethylbenzene	56.1			ug/kg	50.0	112%	79 - 130	7	50	9083623		08/24/09 12:04
Naphthalene	56.8			ug/kg	50.0	114%	72 - 150	5	50	9083623		08/24/09 12:04
Toluene	54.0			ug/kg	50.0	108%	76 - 126	6	50	9083623		08/24/09 12:04
Xylenes, total	168			ug/kg	150	112%	80 - 130	7	50	9083623		08/24/09 12:04
<i>Surrogate: 1,2-Dichloroethane-d4</i>	51.0			ug/kg	50.0	102%	67 - 138			9083623		08/24/09 12:04
<i>Surrogate: Dibromofluoromethane</i>	50.4			ug/kg	50.0	101%	75 - 125			9083623		08/24/09 12:04
<i>Surrogate: Toluene-d8</i>	49.9			ug/kg	50.0	100%	76 - 129			9083623		08/24/09 12:04
<i>Surrogate: 4-Bromofluorobenzene</i>	49.8			ug/kg	50.0	100%	67 - 147			9083623		08/24/09 12:04

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

Work Order: NSH1232  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/14/09 08:10

**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>Selected Volatile Organic Compounds by EPA Method 8260B</b>										
<b>9082342-MS1</b>										
Benzene	ND	2.11		mg/kg dry	2.80	75%	42 - 141	9082342	NSH1232-09RE 1	08/21/09 21:27
Ethylbenzene	ND	2.22		mg/kg dry	2.80	79%	21 - 165	9082342	NSH1232-09RE 1	08/21/09 21:27
Naphthalene	1.00	2.64		mg/kg dry	2.80	58%	10 - 160	9082342	NSH1232-09RE 1	08/21/09 21:27
Toluene	ND	2.14		mg/kg dry	2.80	76%	45 - 145	9082342	NSH1232-09RE 1	08/21/09 21:27
Xylenes, total	ND	7.01		mg/kg dry	8.41	83%	31 - 159	9082342	NSH1232-09RE 1	08/21/09 21:27
<i>Surrogate: 1,2-Dichloroethane-d4</i>		58.0		ug/kg	50.0	116%	67 - 138	9082342	NSH1232-09RE 1	08/21/09 21:27
<i>Surrogate: Dibromofluoromethane</i>		50.7		ug/kg	50.0	101%	75 - 125	9082342	NSH1232-09RE 1	08/21/09 21:27
<i>Surrogate: Toluene-d8</i>		51.4		ug/kg	50.0	103%	76 - 129	9082342	NSH1232-09RE 1	08/21/09 21:27
<i>Surrogate: 4-Bromofluorobenzene</i>		51.4		ug/kg	50.0	103%	67 - 147	9082342	NSH1232-09RE 1	08/21/09 21:27
<b>9083618-MS1</b>										
Benzene	ND	2.19		mg/kg wet	2.22	99%	42 - 141	9083618	NSH1963-01RE 1	08/24/09 21:04
Ethylbenzene	ND	2.23		mg/kg wet	2.22	100%	21 - 165	9083618	NSH1963-01RE 1	08/24/09 21:04
Naphthalene	ND	1.92		mg/kg wet	2.22	86%	10 - 160	9083618	NSH1963-01RE 1	08/24/09 21:04
Toluene	ND	2.18		mg/kg wet	2.22	98%	45 - 145	9083618	NSH1963-01RE 1	08/24/09 21:04
Xylenes, total	ND	6.96		mg/kg wet	6.67	104%	31 - 159	9083618	NSH1963-01RE 1	08/24/09 21:04
<i>Surrogate: 1,2-Dichloroethane-d4</i>		61.8		ug/kg	50.0	124%	67 - 138	9083618	NSH1963-01RE 1	08/24/09 21:04
<i>Surrogate: Dibromofluoromethane</i>		52.3		ug/kg	50.0	105%	75 - 125	9083618	NSH1963-01RE 1	08/24/09 21:04
<i>Surrogate: Toluene-d8</i>		51.6		ug/kg	50.0	103%	76 - 129	9083618	NSH1963-01RE 1	08/24/09 21:04
<i>Surrogate: 4-Bromofluorobenzene</i>		52.2		ug/kg	50.0	104%	67 - 147	9083618	NSH1963-01RE 1	08/24/09 21:04
<b>9083623-MS1</b>										
Benzene	ND	2.67		mg/kg wet	2.50	107%	42 - 141	9083623	NSH1342-04RE 1	08/24/09 21:02
Ethylbenzene	ND	2.76		mg/kg wet	2.50	110%	21 - 165	9083623	NSH1342-04RE 1	08/24/09 21:02
Naphthalene	ND	2.31		mg/kg wet	2.50	93%	10 - 160	9083623	NSH1342-04RE 1	08/24/09 21:02
Toluene	ND	2.57		mg/kg wet	2.50	103%	45 - 145	9083623	NSH1342-04RE 1	08/24/09 21:02

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

Attn Tom McElwee

Work Order: NSH1232  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/14/09 08:10

**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>Selected Volatile Organic Compounds by EPA Method 8260B</b>										
<b>9083623-MS1</b>										
Xylenes, total	ND	8.40		mg/kg wet	7.50	112%	31 - 159	9083623	NSH1342-04RE	08/24/09 21:02
Surrogate: 1,2-Dichloroethane-d4		45.5		ug/kg	50.0	91%	67 - 138	9083623	NSH1342-04RE	08/24/09 21:02
Surrogate: Dibromofluoromethane		47.6		ug/kg	50.0	95%	75 - 125	9083623	NSH1342-04RE	08/24/09 21:02
Surrogate: Toluene-d8		47.2		ug/kg	50.0	94%	76 - 129	9083623	NSH1342-04RE	08/24/09 21:02
Surrogate: 4-Bromofluorobenzene		47.9		ug/kg	50.0	96%	67 - 147	9083623	NSH1342-04RE	08/24/09 21:02
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>										
<b>9082465-MS1</b>										
Acenaphthene	ND	1.21		mg/kg dry	1.96	62%	42 - 120	9082465	NSH1309-08	08/21/09 18:01
Acenaphthylene	ND	1.20		mg/kg dry	1.96	62%	32 - 120	9082465	NSH1309-08	08/21/09 18:01
Anthracene	ND	1.37		mg/kg dry	1.96	70%	10 - 200	9082465	NSH1309-08	08/21/09 18:01
Benzo (a) anthracene	ND	1.31		mg/kg dry	1.96	67%	41 - 120	9082465	NSH1309-08	08/21/09 18:01
Benzo (a) pyrene	ND	1.40		mg/kg dry	1.96	72%	33 - 121	9082465	NSH1309-08	08/21/09 18:01
Benzo (b) fluoranthene	ND	1.34		mg/kg dry	1.96	69%	26 - 137	9082465	NSH1309-08	08/21/09 18:01
Benzo (g,h,i) perlylene	ND	1.27		mg/kg dry	1.96	65%	21 - 124	9082465	NSH1309-08	08/21/09 18:01
Benzo (k) fluoranthene	ND	1.33		mg/kg dry	1.96	68%	14 - 140	9082465	NSH1309-08	08/21/09 18:01
Chrysene	ND	1.31		mg/kg dry	1.96	67%	28 - 123	9082465	NSH1309-08	08/21/09 18:01
Dibenz (a,h) anthracene	ND	1.34		mg/kg dry	1.96	69%	25 - 127	9082465	NSH1309-08	08/21/09 18:01
Fluoranthene	ND	1.38		mg/kg dry	1.96	70%	38 - 120	9082465	NSH1309-08	08/21/09 18:01
Fluorene	ND	1.45		mg/kg dry	1.96	74%	41 - 120	9082465	NSH1309-08	08/21/09 18:01
Indeno (1,2,3-cd) pyrene	ND	1.33		mg/kg dry	1.96	68%	25 - 123	9082465	NSH1309-08	08/21/09 18:01
Naphthalene	ND	1.09		mg/kg dry	1.96	56%	25 - 120	9082465	NSH1309-08	08/21/09 18:01
Phenanthrene	ND	1.26		mg/kg dry	1.96	65%	37 - 120	9082465	NSH1309-08	08/21/09 18:01
Pyrene	ND	1.30		mg/kg dry	1.96	67%	29 - 125	9082465	NSH1309-08	08/21/09 18:01
Surrogate: Terphenyl-d14		1.40		mg/kg dry	1.96	72%	18 - 120	9082465	NSH1309-08	08/21/09 18:01
Surrogate: 2-Fluorobiphenyl		1.25		mg/kg dry	1.96	64%	14 - 120	9082465	NSH1309-08	08/21/09 18:01
Surrogate: Nitrobenzene-d5		1.27		mg/kg dry	1.96	65%	17 - 120	9082465	NSH1309-08	08/21/09 18:01

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

Work Order: NSH1232  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/14/09 08:10

**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>Selected Volatile Organic Compounds by EPA Method 8260B</b>												
<b>9082342-MSD1</b>												
Benzene	ND	2.47		mg/kg dry	2.80	88%	42 - 141	16	50	9082342	NSH1232-09R	08/21/09 21:56
Ethylbenzene	ND	2.53		mg/kg dry	2.80	90%	21 - 165	13	50	9082342	NSH1232-09R	08/21/09 21:56
Naphthalene	1.00	3.09		mg/kg dry	2.80	75%	10 - 160	16	50	9082342	NSH1232-09R	08/21/09 21:56
Toluene	ND	2.45		mg/kg dry	2.80	87%	45 - 145	13	50	9082342	NSH1232-09R	08/21/09 21:56
Xylenes, total	ND	7.94		mg/kg dry	8.41	94%	31 - 159	12	50	9082342	NSH1232-09R	08/21/09 21:56
<i>Surrogate: 1,2-Dichloroethane-d4</i>	60.1			ug/kg	50.0	120%	67 - 138			9082342	NSH1232-09R	08/21/09 21:56
<i>Surrogate: Dibromofluoromethane</i>	51.7			ug/kg	50.0	103%	75 - 125			9082342	NSH1232-09R	08/21/09 21:56
<i>Surrogate: Toluene-d8</i>	50.3			ug/kg	50.0	101%	76 - 129			9082342	NSH1232-09R	08/21/09 21:56
<i>Surrogate: 4-Bromofluorobenzene</i>	53.0			ug/kg	50.0	106%	67 - 147			9082342	NSH1232-09R	08/21/09 21:56
<b>9083618-MSD1</b>												
Benzene	ND	1.99		mg/kg wet	2.22	90%	42 - 141	10	50	9083618	NSH1963-01R	08/24/09 21:33
Ethylbenzene	ND	2.13		mg/kg wet	2.22	96%	21 - 165	4	50	9083618	NSH1963-01R	08/24/09 21:33
Naphthalene	ND	1.95		mg/kg wet	2.22	87%	10 - 160	1	50	9083618	NSH1963-01R	08/24/09 21:33
Toluene	ND	2.11		mg/kg wet	2.22	95%	45 - 145	3	50	9083618	NSH1963-01R	08/24/09 21:33
Xylenes, total	ND	6.51		mg/kg wet	6.67	98%	31 - 159	7	50	9083618	NSH1963-01R	08/24/09 21:33
<i>Surrogate: 1,2-Dichloroethane-d4</i>	57.7			ug/kg	50.0	115%	67 - 138			9083618	NSH1963-01R	08/24/09 21:33
<i>Surrogate: Dibromofluoromethane</i>	48.7			ug/kg	50.0	97%	75 - 125			9083618	NSH1963-01R	08/24/09 21:33
<i>Surrogate: Toluene-d8</i>	51.8			ug/kg	50.0	104%	76 - 129			9083618	NSH1963-01R	08/24/09 21:33
<i>Surrogate: 4-Bromofluorobenzene</i>	52.7			ug/kg	50.0	105%	67 - 147			9083618	NSH1963-01R	08/24/09 21:33
<b>9083623-MSD1</b>												
Benzene	ND	2.17		mg/kg wet	2.50	87%	42 - 141	20	50	9083623	NSH1342-04R	08/24/09 21:32
Ethylbenzene	ND	2.24		mg/kg wet	2.50	89%	21 - 165	21	50	9083623	NSH1342-04R	08/24/09 21:32
Naphthalene	ND	2.04		mg/kg wet	2.50	82%	10 - 160	13	50	9083623	NSH1342-04R	08/24/09 21:32
Toluene	ND	2.14		mg/kg wet	2.50	86%	45 - 145	18	50	9083623	NSH1342-04R	08/24/09 21:32
Xylenes, total	ND	6.88		mg/kg wet	7.50	92%	31 - 159	20	50	9083623	NSH1342-04R	08/24/09 21:32
												E1

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

Work Order: NSH1232  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/14/09 08:10

**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>Selected Volatile Organic Compounds by EPA Method 8260B</b>												
<b>9083623-MSD1</b>												
Surrogate: 1,2-Dichloroethane-d4	46.6			ug/kg	50.0	93%	67 - 138			9083623	NSH1342-04R E1	08/24/09 21:32
Surrogate: Dibromofluoromethane	47.9			ug/kg	50.0	96%	75 - 125			9083623	NSH1342-04R E1	08/24/09 21:32
Surrogate: Toluene-d8	47.6			ug/kg	50.0	95%	76 - 129			9083623	NSH1342-04R E1	08/24/09 21:32
Surrogate: 4-Bromofluorobenzene	48.6			ug/kg	50.0	97%	67 - 147			9083623	NSH1342-04R E1	08/24/09 21:32

**Polyaromatic Hydrocarbons by EPA 8270D**

Analyte	ND	1.37	mg/kg dry	1.95	71%	42 - 120	12	40	9082465	NSH1309-08	08/21/09 18:30	
Acenaphthene	ND	1.38	mg/kg dry	1.95	71%	32 - 120	14	30	9082465	NSH1309-08	08/21/09 18:30	
Acenaphthylene	ND	1.62	mg/kg dry	1.95	83%	10 - 200	17	50	9082465	NSH1309-08	08/21/09 18:30	
Anthracene	ND	1.53	mg/kg dry	1.95	79%	41 - 120	15	30	9082465	NSH1309-08	08/21/09 18:30	
Benzo (a) anthracene	ND	1.63	mg/kg dry	1.95	84%	33 - 121	15	33	9082465	NSH1309-08	08/21/09 18:30	
Benzo (a) pyrene	ND	1.56	mg/kg dry	1.95	80%	26 - 137	15	42	9082465	NSH1309-08	08/21/09 18:30	
Benzo (b) fluoranthene	ND	1.38	mg/kg dry	1.95	71%	21 - 124	9	32	9082465	NSH1309-08	08/21/09 18:30	
Benzo (g,h,i) perylene	ND	1.54	mg/kg dry	1.95	79%	14 - 140	14	39	9082465	NSH1309-08	08/21/09 18:30	
Benzo (k) fluoranthene	ND	1.49	mg/kg dry	1.95	77%	28 - 123	13	34	9082465	NSH1309-08	08/21/09 18:30	
Chrysene	ND	1.49	mg/kg dry	1.95	77%	25 - 127	10	31	9082465	NSH1309-08	08/21/09 18:30	
Dibenz (a,h) anthracene	ND	1.58	mg/kg dry	1.95	81%	38 - 120	14	35	9082465	NSH1309-08	08/21/09 18:30	
Fluoranthene	ND	1.64	mg/kg dry	1.95	84%	41 - 120	13	37	9082465	NSH1309-08	08/21/09 18:30	
Fluorene	ND	1.49	mg/kg dry	1.95	77%	25 - 123	11	32	9082465	NSH1309-08	08/21/09 18:30	
Indeno (1,2,3-cd) pyrene	ND	1.26	mg/kg dry	1.95	65%	25 - 120	14	42	9082465	NSH1309-08	08/21/09 18:30	
Naphthalene	ND	1.43	mg/kg dry	1.95	74%	37 - 120	12	32	9082465	NSH1309-08	08/21/09 18:30	
Phenanthrene	ND	1.50	mg/kg dry	1.95	77%	29 - 125	14	40	9082465	NSH1309-08	08/21/09 18:30	
Pyrene	ND	1.54	mg/kg dry	1.95	79%	18 - 120			9082465	NSH1309-08	08/21/09 18:30	
Surrogate: Terphenyl-d14		1.27	mg/kg dry	1.95	65%	14 - 120			9082465	NSH1309-08	08/21/09 18:30	
Surrogate: 2-Fluorobiphenyl		1.31	mg/kg dry	1.95	67%	17 - 120			9082465	NSH1309-08	08/21/09 18:30	
Surrogate: Nitrobenzene-d5												

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSH1232
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	08/14/09 08:10

## 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)	Work Order:	NSH1232
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	08/14/09 08:10

## DATA QUALIFIERS AND DEFINITIONS

- 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



## COOLER RECEIPT

Cooler Received/Opened On 08/14/09 @ 08:10

NSH1232

443L1

1. Tracking # \_\_\_\_\_ (last 4 digits, FED-EX)

Courier: FED-EX IR Gun ID 97310166

2. Temperature of rep. sample or temp blank when opened: 39 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?

If yes, how many and where: 2 - FRONT &amp; BACK YES...NO...NA

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) MM7. Were custody seals on containers: YES  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  If multiple coolers, sequence # MMI certify that I unloaded the cooler and answered questions 7-14 (initial) MM15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO 

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

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

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

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

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

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

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

I certify that I entered this project into LIMS and answered questions 17-20 (initial) MMI certify that I attached a label with the unique LIMS number to each container (initial) MM21. Were there Non-Conformance issues at login? YES  Was a PIPE generated? YES  NO...#

NSH1232  
08/28/09 23:59

**TestAmerica**

Nashville Division  
2960 Foster Creighton  
Nashville, TN 37204

THE LEADER ENVIRONMENTAL TESTING

Client Name/Account #: EEG# 2449

Address: 10179 Highway 78

City/State/Zip: Ladson, SC 29456

Project Manager: Tom McElwee email: mcetwet@eegginc.net

Telephone Number: 843-412-2087

Sampler Name: (Print) Kathy Shaw

Sampler Signature: Kathy Shaw

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

Compliance Monitoring?

Yes  No

Enforcement Action?

Yes  No

Site State: SC

PO#:

0829

TA Quote #:

Project ID: Laurel Bay Housing Project

Project #:

843-8790401

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Composite	Field Filtered	Ice	HNO <sub>3</sub> (Black Label)	HCl (Blue Label)	NaOH (Orange Label)	H <sub>2</sub> SO <sub>4</sub> Plastic (Yellow Label)	None (Black Label)	Soil	Sludge	Drinking Water	Wastewater	Groundwater	Other (Specify)	BTEX + Naph - B260E	PAH - B270D	RUSH TAT Pre-Schedule			
1461 CARD, N.W.	8/10/09	13:15	5	X	-	-	-	-	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X
1456 CARD, N.W.	8/10/09	10:30	5	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1465 CARD, N.W.	8/10/09	15:30	5	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1469 CARD, N.W.	8/11/09	09:15	5	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1471 CARD, N.W.	8/11/09	12:00	5	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1466 CARD, N.W.	8/11/09	15:15	5	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1475 CARD, N.W.	8/12/09	10:30	5	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1473 CARD, N.W.	8/12/09	14:30	5	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1470 CARD, N.W.	8/13/09	10:30	5	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Special Instructions:

Method of Shipment:

FEDEX

Time

Date

Time

FEDEX

Time

Date

Time

Laboratory Comments:

Temperature Upon Receipt.

VOCs Free of Headspace?

y

y

ATTACHMENT A



# NON-HAZARDOUS MANIFEST

CWM

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

<b>NON-HAZARDOUS MANIFEST</b>		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1		
3. Generator's Name and Mailing Address <b>MCAS, Beaufort Laurel Bay Housing Beaufort SC 29904</b>				A. Manifest Number <b>WMNA 10885474</b>		
4. Generator's Phone <b>843 228-6460</b>		6. US EPA ID Number		B. State Generator's ID		
5. Transporter 1 Company Name <b>EEG, Inc.</b>				C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone <b>843 879-0411</b>		
9. Designated Facility Name and Site Address <b>HICKORY HILL LANDFILL ROUTE 1, BOX 121 RIDGELEAD SC 29936</b>		10. US EPA ID Number		E. State Transporter's ID		
11. Description of Waste Materials <b>a Heating Oil Tank filled with Sand</b>		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	I. Misc. Comments	
WM Profile # <b>102655SC</b>		<b>0 0 1</b>	<b>853</b>	<b>TN</b>		
b. WM Profile #						
c. WM Profile #						
WM Profile #						
J. Additional Descriptions for Materials Listed Above Landfill _____ Solidification _____ Bio Remediation _____		K. Disposal Location Cell _____ Level _____ Grid _____				
15. Special Handling Instructions and Additional Information <i>Gen UST's from 31473 Cardinal</i>		31470 Cardinal 31477 Cardinal 31474 Cardinal 31478 Cardinal 31485 Cardinal				
Purchase Order #		EMERGENCY CONTACT:				
16. GENERATOR'S CERTIFICATION: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 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/Typed Name <i>W.G. Jones, Jr.</i>		Signature "On behalf of" <i>[Signature]</i>			Month Day Year <b>08/26/09</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name <b>James Baldwin</b>		Signature <i>[Signature]</i>			Month Day Year <b>10/18/2019</b>	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed 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/Typed Name <b>J. Collins</b>		Signature <i>[Signature]</i>			Month Day Year <b>08/27/09</b>	

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

# Volatile Organic Compounds by GC/MS

Client: AECOM - Resolution Consultants

Laboratory ID: QB06006-006

Description: BEALB1470TW01WG20150204

Matrix: Aqueous

Date Sampled: 02/04/2015 1505

Date Received: 02/06/2015

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	02/12/2015 1223	EH1		67618			
Parameter		CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzene		71-43-2	8260B	0.40	U	1.0	0.40	0.13	ug/L	1
Ethylbenzene		100-41-4	8260B	0.50	U	1.0	0.50	0.33	ug/L	1
Naphthalene		91-20-3	8260B	0.20	U	1.0	0.20	0.40	ug/L	1
Toluene		108-88-3	8260B	0.50	U	1.0	0.50	0.33	ug/L	1
Xylenes (total)		1330-20-7	8260B	0.40	U	1.0	0.40	0.33	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4	93		70-120							
Bromofluorobenzene	99		75-120							
Toluene-d8	98		85-120							
Dibromofluoromethane	96		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  $\geq$  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: AECOM - Resolution Consultants

Laboratory ID: QB06006-006

Description: BEALB1470TW01WG20150204

Matrix: Aqueous

Date Sampled: 02/04/2015 1505

Date Received: 02/06/2015

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	3520C	8270D (SIM)	50	02/19/2015 1155	RBH	02/10/2015 1512	67395

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzo(a)anthracene	56-55-3	8270D (SIM)	2.0	U	10	2.0	0.95	ug/L	2
Benzo(b)fluoranthene	205-99-2	8270D (SIM)	2.0	U	10	2.0	0.95	ug/L	2
Benzo(k)fluoranthene	207-08-9	8270D (SIM)	2.0	U	10	2.0	1.2	ug/L	2
Chrysene	218-01-9	8270D (SIM)	2.0	U	10	2.0	1.1	ug/L	2
Dibenzo(a,h)anthracene	53-70-3	8270D (SIM)	4.0	U	10	4.0	2.0	ug/L	2
Surrogate	Q	Run 2 % Recovery	Acceptance Limits						
2-Methylnaphthalene-d10	58		15-139						
Fluoranthene-d10	43		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  $\geq$  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**

April 1, 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,

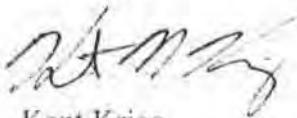
The South Carolina Department of Health and Environmental Control (the Department) received the above referenced Underground Storage Tank Assessment Reports for the addresses listed above. The regulatory authority for the investigation and cleanup of releases from these tank systems is the South Carolina 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@gmail.com](mailto:kriegkm@gmail.com) 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)

Attachment to: Krieg to Drawdy  
Subject: IGWA  
Dated 4/1/2014

## Laurel Bay Underground Storage Tank Assessment Reports for: (25 addresses/26 tanks)

1187 Bobwhite	1456 Cardinal
1431 Dove	1457 Cardinal
1433 Dove	1461 Cardinal
1435 Dove Tank #1	1465 Cardinal
1435 Dove Tank #2	1467 Cardinal
1437 Dove	1469 Cardinal
1439 Dove	1470 Cardinal
1441 Dove	1471 Cardinal
1447 Dove	1473 Cardinal
1449 Dove	1477 Cardinal
1451 Dove	1478 Cardinal
1452 Cardinal	1479 Cardinal
1454 Cardinal	1485 Cardinal



May 5, 2015

W. Marshall Taylor Jr., Acting Director

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

Commanding Officer

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

RE: Correction - Recommendation Concurrence  
Draft Final Initial Groundwater Investigation Report  
Dated April 2015

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received groundwater data in the above referenced Groundwater Investigation Report for the 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 3 stated addresses. For the remaining 23 addresses, there is no indication of contamination on the property and therefore no further investigation is required at this time. *Note the correction to the attachment, properly referencing 1431 Dove and 1435 Dove Tank 1 and Tank 2 in the Permanent Monitoring Well Investigation recommendation section.*

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

*Attachment: Specific Property Recommendations*

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



W. Marshall Taylor Jr., Acting Director

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

**Attachment to:**

Krieg to Drawdy

**Subject:** Draft Final Initial Groundwater Investigation Report - April 2015

Specific Property Recommendations

Dated 5/5/2015

**Draft Final Initial Groundwater Investigation Report for: (26 addresses/28 tanks)**

<b>Permanent Monitoring Well Investigation recommendation (3 addresses/4 tanks):</b>	
1431 Dove	1435 Dove Tank 2
1435 Dove Tank 1	1452 Cardinal
<b>No Further Action recommendation (23 addresses/24 tanks):</b>	
1187 Bobwhite	1463 Cardinal
1433 Dove	1465 Cardinal
1437 Dove	1467 Cardinal
1439 Dove	1469 Cardinal
1441 Dove	1470 Cardinal
1447 Dove	1473 Cardinal
1449 Dove	1471 Cardinal
1451 Dove	1477 Cardinal
1454 Cardinal	1478 Cardinal
1456 Cardinal	1479 Cardinal Tank 1
1457 Cardinal	1479 Cardinal Tank 2
1461 Cardinal	1485 Cardinal