

**SUMMARY REPORT**  
**795 WEST CARDINAL LANE (FORMERLY 1478 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:**



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

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## Table of Contents

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

## Tables

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

## Appendices

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

### **List of Acronyms**

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

## **1.0 INTRODUCTION**

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

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

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 795 West Cardinal Lane (Formerly 1478 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

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 795 West Cardinal Lane (Formerly 1478 West Cardinal Lane). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1478 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 17, 2009, a single 280 gallon heating oil UST was removed from the front landscaped bed area adjacent to the house at 795 West Cardinal Lane (Formerly 1478 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 evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 5'4" 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 795 West Cardinal Lane (Formerly 1478 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 795 West Cardinal Lane (Formerly 1478 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 795 West Cardinal Lane (Formerly 1478 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).



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 795 West Cardinal Lane (Formerly 1478 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 795 West Cardinal Lane (Formerly 1478 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 – 1478 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.

- 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**  
**795 West Cardinal Lane (Formerly 1478 West Cardinal Lane)**  
**Laurel Bay Military Housing Area**  
**Marine Corps Air Station Beaufort**  
**Beaufort, South Carolina**

| Constituent                                                                | SCDHEC RBSLs <sup>(1)</sup> | Results<br>Sample Collected 08/17/09 |
|----------------------------------------------------------------------------|-----------------------------|--------------------------------------|
| <b>Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)</b>     |                             |                                      |
| Benzene                                                                    | 0.003                       | ND                                   |
| Ethylbenzene                                                               | 1.15                        | ND                                   |
| Naphthalene                                                                | 0.036                       | ND                                   |
| Toluene                                                                    | 0.627                       | ND                                   |
| Xylenes, Total                                                             | 13.01                       | ND                                   |
| <b>Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)</b> |                             |                                      |
| Benzo(a)anthracene                                                         | 0.66                        | <b>9.49</b>                          |
| Benzo(b)fluoranthene                                                       | 0.66                        | <b>5.92</b>                          |
| Benzo(k)fluoranthene                                                       | 0.66                        | <b>3.59</b>                          |
| Chrysene                                                                   | 0.66                        | <b>11.2</b>                          |
| Dibenz(a,h)anthracene                                                      | 0.66                        | <b>0.733</b>                         |

**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**  
**795 West Cardinal Lane (Formerly 1478 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 (µg/L) <sup>(2)</sup> | Results<br>Sample Collected 02/04/15 |
|---------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------|--------------------------------------|
| <b>Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)</b>     |                             |                                                       |                                      |
| Benzene                                                                   | 5                           | 16.24                                                 | ND                                   |
| Ethylbenzene                                                              | 700                         | 45.95                                                 | <b>1.6</b>                           |
| Naphthalene                                                               | 25                          | 29.33                                                 | <b>13</b>                            |
| Toluene                                                                   | 1000                        | 105,445                                               | ND                                   |
| Xylenes, Total                                                            | 10,000                      | 2,133                                                 | <b>0.97</b>                          |
| <b>Semivolatile Organic Compounds Analyzed by EPA Method 8270D (µg/L)</b> |                             |                                                       |                                      |
| Benzo(a)anthracene                                                        | 10                          | NA                                                    | ND                                   |
| Benzo(b)fluoranthene                                                      | 10                          | NA                                                    | ND                                   |
| Benzo(k)fluoranthene                                                      | 10                          | NA                                                    | ND                                   |
| Chrysene                                                                  | 10                          | NA                                                    | ND                                   |
| Dibenz(a,h)anthracene                                                     | 10                          | NA                                                    | ND                                   |

**Notes:**

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

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

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

JE - Johnson & Ettinger

NA - Not Applicable

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

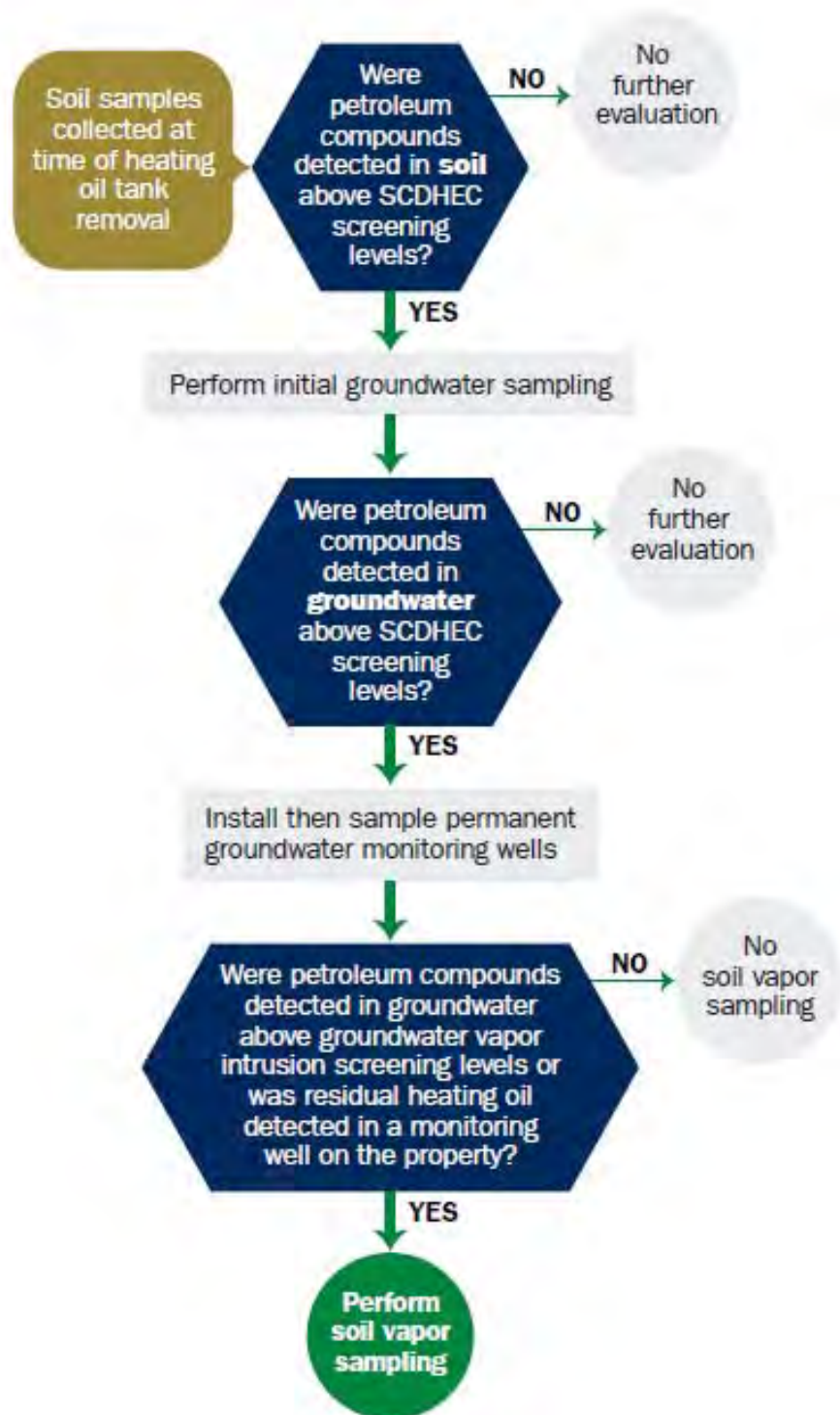
RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

µg/L - micrograms per liter

VISL - Vapor Intrusion Screening Level

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



Appendix A - Multi-Media Selection Process for LBMH

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



South Carolina Department of Health and Environmental Control (SCDHEC)

**Underground Storage Tank (UST) Assessment Report****RECEIVED**

Date Received

State Use Only

Submit Completed Form To:

UST Program

SCDHEC

2600 Bull Street

Columbia, South Carolina 29201

Telephone (803) 896-7957

NOV 09 2009

SC DHEC - Bureau of

Land &amp; Waste Management

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

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

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

P.O. Box 55001

Mailing Address

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

Permit I.D. #

Laurel Bay Military Housing Area, Marine Corps Air Station, Beaufort, SC

Facility Name or Company Site Identifier

1478 Cardinal Lane, Laurel Bay Military Housing Area

Street Address or State Road (as applicable)

Beaufort,  
CityBeaufort  
County

Attachment 2

### III. INSURANCE INFORMATION

#### Insurance Statement

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

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

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

My policy provider is: \_\_\_\_\_  
The policy deductible is: \_\_\_\_\_  
The policy limit is: \_\_\_\_\_

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

### IV. REQUEST FOR SUPERB FUNDING

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

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

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

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

\_\_\_\_\_  
Signature

#### To be completed by Notary Public:

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

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

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

## VI. UST INFORMATION

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

|              |  |  |  |  |
|--------------|--|--|--|--|
| 1478Cardinal |  |  |  |  |
| Heating oil  |  |  |  |  |
| 280 gal      |  |  |  |  |
| Late 1950s   |  |  |  |  |
| Steel        |  |  |  |  |
| Mid 1980s    |  |  |  |  |
| 5'4"         |  |  |  |  |
| No           |  |  |  |  |
| No           |  |  |  |  |
| Removed      |  |  |  |  |
| 8/17/09      |  |  |  |  |
| Yes          |  |  |  |  |
| Yes          |  |  |  |  |

- M. Method of disposal for any USTs removed from the ground (attach disposal manifests)  
UST 1478Cardinal was removed from the ground and disposed of at a  
Subtitle "D" landfill. See Attachment "A".
- N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)  
UST 1478Cardinal had been previously filled with sand by others.
- O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST  
Corrosion, pitting and holes were found throughout the tank.

## VII. PIPING INFORMATION

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

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

C. Number of Dispensers.....

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

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

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

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

H. Age.....

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

|                   |  |  |  |  |
|-------------------|--|--|--|--|
| 1478Cardinal      |  |  |  |  |
| Steel<br>& Copper |  |  |  |  |
| N/A               |  |  |  |  |
| N/A               |  |  |  |  |
| Suction           |  |  |  |  |
| Yes               |  |  |  |  |
| Yes               |  |  |  |  |
| No                |  |  |  |  |
| Late 1950s        |  |  |  |  |

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

## VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

## IX. SITE CONDITIONS

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



## X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009001

B.

| Sample #         | Location             | Sample Type<br>(Soil/Water) | Soil Type<br>(Sand/Clay) | Depth* | Date/Time of<br>Collection | Collected<br>by | OVA # |
|------------------|----------------------|-----------------------------|--------------------------|--------|----------------------------|-----------------|-------|
| 1478<br>Cardinal | Excav at<br>fill end | Soil                        | Sandy                    | 5'4"   | 8/17/09<br>1355 hrs        | P. Shaw         |       |
|                  |                      |                             |                          |        |                            |                 |       |
|                  |                      |                             |                          |        |                            |                 |       |
|                  |                      |                             |                          |        |                            |                 |       |
|                  |                      |                             |                          |        |                            |                 |       |
|                  |                      |                             |                          |        |                            |                 |       |
|                  |                      |                             |                          |        |                            |                 |       |
| 8                |                      |                             |                          |        |                            |                 |       |
| 9                |                      |                             |                          |        |                            |                 |       |
| 10               |                      |                             |                          |        |                            |                 |       |
| 11               |                      |                             |                          |        |                            |                 |       |
| 12               |                      |                             |                          |        |                            |                 |       |
| 13               |                      |                             |                          |        |                            |                 |       |
| 14               |                      |                             |                          |        |                            |                 |       |
| 15               |                      |                             |                          |        |                            |                 |       |
| 16               |                      |                             |                          |        |                            |                 |       |
| 17               |                      |                             |                          |        |                            |                 |       |
| 18               |                      |                             |                          |        |                            |                 |       |
| 19               |                      |                             |                          |        |                            |                 |       |
| 20               |                      |                             |                          |        |                            |                 |       |

\* = Depth Below the Surrounding Land Surface

## XI. SAMPLING METHODOLOGY

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

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

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## XII. RECEPTORS

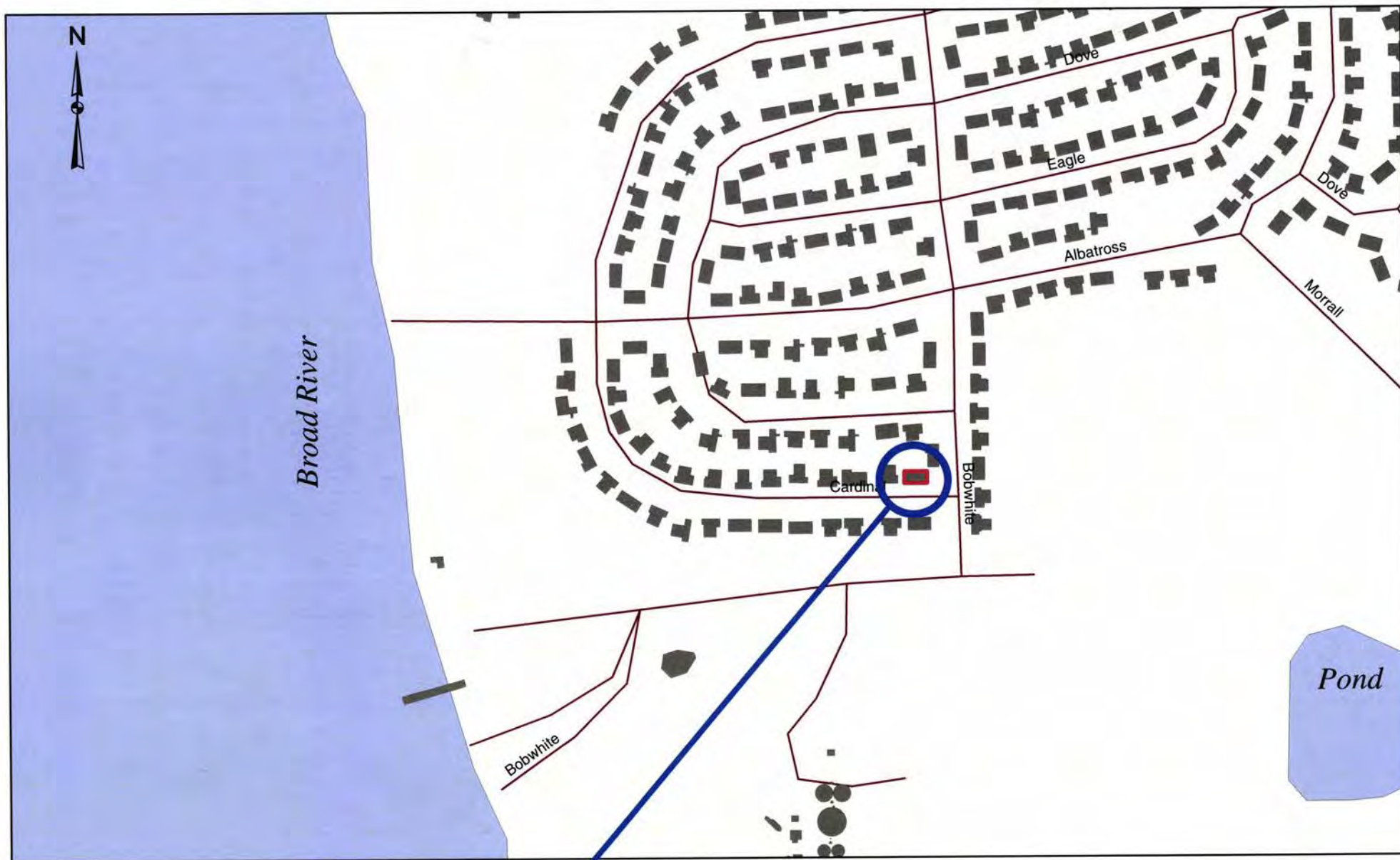
|                                                                                                                                                                                                                                                                                                                                                                                          | Yes | No |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| <p>A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?<br/> <span style="float: right;">*Pond ~411'</span><br/>                     If yes, indicate type of receptor, distance, and direction on site map.</p>                                                                                                                              | *X  |    |
| <p>B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?<br/>                     If yes, indicate type of well, distance, and direction on site map.</p>                                                                                                                                                                               |     | X  |
| <p>C. Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?<br/>                     If yes, indicate type of structure, distance, and direction on site map.</p>                                                                                                                                                                            |     | X  |
| <p>D. Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination?<br/> <span style="float: right;">*Sewer &amp; water</span><br/>                     If yes, indicate the type of utility, distance, and direction on the site map.</p> | *X  |    |
| <p>E. Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete?<br/>                     If yes, indicate the area of contaminated soil on the site map.</p>                                                                                                                                            |     | X  |



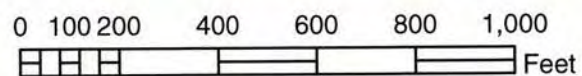
### **XIII. SITE MAP**

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

(Attach Site Map Here)



**1478 CARDINAL LN**



**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**  
**1478 CARDINAL LANE, LAUREL BAY**  
**MCAS BEAUFORT SC**

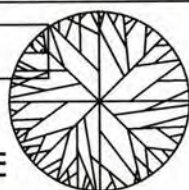
POND ≈411'



1478 CARDINAL LANE  
LAUREL BAY MILITARY HOUSING  
MCAS BEAUFORT, SC

UST 1478CARDINAL

TREE



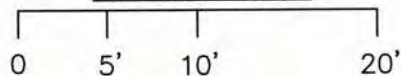
WATER

SEWER

CONCRETE  
PORCH

ASPHALT  
DRIVEWAY

GRAPHIC SCALE



**SBG-EEG**

10179 HWY 78  
LADSON, SC 29456

ph. (843) 879-0400

FIGURE 2 SITE MAP  
1478 CARDINAL LANE, LAUREL BAY  
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE SEPT 2009



POND ≈411'

1478 CARDINAL LANE

FILL END

EXCAVATION

SOIL SAMPLE  
1478 CARDINAL

UST 1478CARDINAL,  
280 GAL.

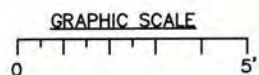
CONCRETE  
PORCH

GRASS

WATER

SEWER

NOTE: TREE REMOVED FOR CLARITY.



UST 1478CARDINAL WAS  
28" BELOW GRADE.

**SBG-EEG**

10179 HWY 78  
LADSON, SC 29456

ph. (843) 879-0400

FIGURE 3 UST SAMPLE LOCATIONS  
1478 CARDINAL LANE, LAUREL BAY  
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE SEPT 2009





Picture 1: Location of UST 1478Cardinal.



Picture 2: 1478 Cardinal Lane after completion of work.

#### XIV. SUMMARY OF ANALYSIS RESULTS

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

|                          |                  |  |  |  |  |  |  |  |
|--------------------------|------------------|--|--|--|--|--|--|--|
| CoC                      | UST 1478Cardinal |  |  |  |  |  |  |  |
| Benzene                  | ND               |  |  |  |  |  |  |  |
| Toluene                  | ND               |  |  |  |  |  |  |  |
| Ethylbenzene             | ND               |  |  |  |  |  |  |  |
| Xylenes                  | ND               |  |  |  |  |  |  |  |
| Naphthalene              | ND               |  |  |  |  |  |  |  |
| Benzo (a) anthracene     | 9.49 mg/kg       |  |  |  |  |  |  |  |
| Benzo (b) fluoranthene   | 5.92 mg/kg       |  |  |  |  |  |  |  |
| Benzo (k) fluoranthene   | 3.59 mg/kg       |  |  |  |  |  |  |  |
| Chrysene                 | 11.2 mg/kg       |  |  |  |  |  |  |  |
| Dibenz (a, h) anthracene | 0.733 mg/kg      |  |  |  |  |  |  |  |
| TPH (EPA 3550)           |                  |  |  |  |  |  |  |  |

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



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

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

| CoC                         | RBSL<br>(µg/l)   | W-1 | W-2 | W -3 | W -4 |
|-----------------------------|------------------|-----|-----|------|------|
| Free Product<br>Thickness   | None             |     |     |      |      |
| Benzene                     | 5                |     |     |      |      |
| Toluene                     | 1,000            |     |     |      |      |
| Ethylbenzene                | 700              |     |     |      |      |
| Xylenes                     | 10,000           |     |     |      |      |
| Total BTEX                  | N/A              |     |     |      |      |
| MTBE                        | 40               |     |     |      |      |
| Naphthalene                 | 25               |     |     |      |      |
| Benzo (a) anthracene        | 10               |     |     |      |      |
| Benzo (b) flouranthene      | 10               |     |     |      |      |
| Benzo (k) flouranthene      | 10               |     |     |      |      |
| Chrysene                    | 10               |     |     |      |      |
| Dibenz (a, h)<br>anthracene | 10               |     |     |      |      |
| EDB                         | .05              |     |     |      |      |
| 1,2-DCA                     | 5                |     |     |      |      |
| Lead                        | Site<br>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 04, 2009 1:45:53PM

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

Work Order: NSH1908  
Project Name: Laurel Bay Housing Project  
Project Nbr: [none]  
P/O Nbr: 0829  
Date Received: 08/21/09

| SAMPLE IDENTIFICATION | LAB NUMBER | COLLECTION DATE AND TIME |
|-----------------------|------------|--------------------------|
| 1474 Cardinal         | NSH1908-01 | 08/17/09 09:50           |
| 1477 Cardinal         | NSH1908-02 | 08/17/09 10:40           |
| 1478 Cardinal         | NSH1908-03 | 08/17/09 13:55           |
| 1485 Cardinal         | NSH1908-04 | 08/17/09 15:45           |
| 1176 Bobwhite         | NSH1908-05 | 08/18/09 10:05           |
| 1172 Bobwhite         | NSH1908-06 | 08/18/09 09:45           |
| 1180 Bobwhite         | NSH1908-07 | 08/18/09 13:45           |
| 1182 Bobwhite         | NSH1908-08 | 08/18/09 14:05           |

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

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

South Carolina Certification Number: 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)  
10179 Highway 78  
Ladson, SC 29456  
Attn Tom McElwee

Work Order: NSH1908  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/21/09 08:00

## ANALYTICAL REPORT

| Analyte                                                                     | Result | Flag | Units     | MRL     | Dilution Factor | Analysis Date/Time | Method      | Analyst | Batch   |
|-----------------------------------------------------------------------------|--------|------|-----------|---------|-----------------|--------------------|-------------|---------|---------|
| <b>Sample ID: NSH1908-01 (1474 Cardinal - Soil) Sampled: 08/17/09 09:50</b> |        |      |           |         |                 |                    |             |         |         |
| General Chemistry Parameters                                                |        |      |           |         |                 |                    |             |         |         |
| % Dry Solids                                                                | 81.4   |      | %         | 0.500   | 1               | 09/01/09 08:53     | SW-846      | AJK     | 9085104 |
| Selected Volatile Organic Compounds by EPA Method 8260B                     |        |      |           |         |                 |                    |             |         |         |
| Benzene                                                                     | ND     |      | mg/kg dry | 0.00210 | 1               | 08/28/09 17:14     | SW846 8260B | SMS     | 9083572 |
| Ethylbenzene                                                                | ND     |      | mg/kg dry | 0.00210 | 1               | 08/28/09 17:14     | SW846 8260B | SMS     | 9083572 |
| Naphthalene                                                                 | ND     |      | mg/kg dry | 0.00525 | 1               | 08/28/09 17:14     | SW846 8260B | SMS     | 9083572 |
| Toluene                                                                     | ND     |      | mg/kg dry | 0.00210 | 1               | 08/28/09 17:14     | SW846 8260B | SMS     | 9083572 |
| Xylenes, total                                                              | ND     |      | mg/kg dry | 0.00525 | 1               | 08/28/09 17:14     | SW846 8260B | SMS     | 9083572 |
| Surr: 1,2-Dichloroethane-d4 (67-138%)                                       | 105 %  |      |           |         |                 | 08/28/09 17:14     | SW846 8260B | SMS     | 9083572 |
| Surr: Dibromofluoromethane (75-125%)                                        | 96 %   |      |           |         |                 | 08/28/09 17:14     | SW846 8260B | SMS     | 9083572 |
| Surr: Toluene-d8 (76-129%)                                                  | 100 %  |      |           |         |                 | 08/28/09 17:14     | SW846 8260B | SMS     | 9083572 |
| Surr: 4-Bromofluorobenzene (67-147%)                                        | 112 %  |      |           |         |                 | 08/28/09 17:14     | SW846 8260B | SMS     | 9083572 |
| Polyaromatic Hydrocarbons by EPA 8270D                                      |        |      |           |         |                 |                    |             |         |         |
| Acenaphthene                                                                | ND     |      | mg/kg dry | 0.0813  | 1               | 08/30/09 19:18     | SW846 8270D | jlf     | 9083679 |
| Acenaphthylene                                                              | ND     |      | mg/kg dry | 0.0813  | 1               | 08/30/09 19:18     | SW846 8270D | jlf     | 9083679 |
| Anthracene                                                                  | ND     |      | mg/kg dry | 0.0813  | 1               | 08/30/09 19:18     | SW846 8270D | jlf     | 9083679 |
| Benzo (a) anthracene                                                        | ND     |      | mg/kg dry | 0.0813  | 1               | 08/30/09 19:18     | SW846 8270D | jlf     | 9083679 |
| Benzo (a) pyrene                                                            | ND     |      | mg/kg dry | 0.0813  | 1               | 08/30/09 19:18     | SW846 8270D | jlf     | 9083679 |
| Benzo (b) fluoranthene                                                      | ND     |      | mg/kg dry | 0.0813  | 1               | 08/30/09 19:18     | SW846 8270D | jlf     | 9083679 |
| Benzo (g,h,i) perylene                                                      | 0.155  |      | mg/kg dry | 0.0813  | 1               | 08/30/09 19:18     | SW846 8270D | jlf     | 9083679 |
| Benzo (k) fluoranthene                                                      | ND     |      | mg/kg dry | 0.0813  | 1               | 08/30/09 19:18     | SW846 8270D | jlf     | 9083679 |
| Chrysene                                                                    | ND     |      | mg/kg dry | 0.0813  | 1               | 08/30/09 19:18     | SW846 8270D | jlf     | 9083679 |
| Dibenz (a,h) anthracene                                                     | ND     |      | mg/kg dry | 0.0813  | 1               | 08/30/09 19:18     | SW846 8270D | jlf     | 9083679 |
| Fluoranthene                                                                | ND     |      | mg/kg dry | 0.0813  | 1               | 08/30/09 19:18     | SW846 8270D | jlf     | 9083679 |
| Fluorene                                                                    | ND     |      | mg/kg dry | 0.0813  | 1               | 08/30/09 19:18     | SW846 8270D | jlf     | 9083679 |
| Indeno (1,2,3-cd) pyrene                                                    | ND     |      | mg/kg dry | 0.0813  | 1               | 08/30/09 19:18     | SW846 8270D | jlf     | 9083679 |
| Naphthalene                                                                 | ND     |      | mg/kg dry | 0.0813  | 1               | 08/30/09 19:18     | SW846 8270D | jlf     | 9083679 |
| Phenanthrene                                                                | ND     |      | mg/kg dry | 0.0813  | 1               | 08/30/09 19:18     | SW846 8270D | jlf     | 9083679 |
| Pyrene                                                                      | ND     |      | mg/kg dry | 0.0813  | 1               | 08/30/09 19:18     | SW846 8270D | jlf     | 9083679 |
| 1-Methylnaphthalene                                                         | ND     |      | mg/kg dry | 0.0813  | 1               | 08/30/09 19:18     | SW846 8270D | jlf     | 9083679 |
| 2-Methylnaphthalene                                                         | ND     |      | mg/kg dry | 0.0813  | 1               | 08/30/09 19:18     | SW846 8270D | jlf     | 9083679 |
| Surr: Terphenyl-d14 (18-120%)                                               | 83 %   |      |           |         |                 | 08/30/09 19:18     | SW846 8270D | jlf     | 9083679 |
| Surr: 2-Fluorobiphenyl (14-120%)                                            | 64 %   |      |           |         |                 | 08/30/09 19:18     | SW846 8270D | jlf     | 9083679 |
| Surr: Nitrobenzene-d5 (17-120%)                                             | 59 %   |      |           |         |                 | 08/30/09 19:18     | SW846 8270D | jlf     | 9083679 |

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

Work Order: NSH1908  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/21/09 08:00

## ANALYTICAL REPORT

| Analyte                                                                     | Result | Flag | Units     | MRL     | Dilution Factor | Analysis Date/Time | Method      | Analyst | Batch   |
|-----------------------------------------------------------------------------|--------|------|-----------|---------|-----------------|--------------------|-------------|---------|---------|
| <b>Sample ID: NSH1908-02 (1477 Cardinal - Soil) Sampled: 08/17/09 10:40</b> |        |      |           |         |                 |                    |             |         |         |
| General Chemistry Parameters                                                |        |      |           |         |                 |                    |             |         |         |
| % Dry Solids                                                                | 80.5   |      | %         | 0.500   | 1               | 09/01/09 08:53     | SW-846      | AJK     | 9085104 |
| Selected Volatile Organic Compounds by EPA Method 8260B                     |        |      |           |         |                 |                    |             |         |         |
| Benzene                                                                     | ND     |      | mg/kg dry | 0.00222 | 1               | 08/28/09 17:44     | SW846 8260B | SMS     | 9083572 |
| Ethylbenzene                                                                | 0.169  |      | mg/kg dry | 0.00222 | 1               | 08/28/09 17:44     | SW846 8260B | SMS     | 9083572 |
| Naphthalene                                                                 | 1.79   |      | mg/kg dry | 0.280   | 50              | 08/31/09 16:06     | SW846 8260B | SMS     | 9084596 |
| Toluene                                                                     | ND     |      | mg/kg dry | 0.00222 | 1               | 08/28/09 17:44     | SW846 8260B | SMS     | 9083572 |
| Xylenes, total                                                              | 0.118  |      | mg/kg dry | 0.00556 | 1               | 08/28/09 17:44     | SW846 8260B | SMS     | 9083572 |
| Surr: 1,2-Dichloroethane-d4 (67-138%)                                       | 108 %  |      |           |         |                 | 08/28/09 17:44     | SW846 8260B | SMS     | 9083572 |
| Surr: 1,2-Dichloroethane-d4 (67-138%)                                       | 103 %  |      |           |         |                 | 08/31/09 16:06     | SW846 8260B | SMS     | 9084596 |
| Surr: Dibromofluoromethane (75-125%)                                        | 102 %  |      |           |         |                 | 08/28/09 17:44     | SW846 8260B | SMS     | 9083572 |
| Surr: Dibromofluoromethane (75-125%)                                        | 102 %  |      |           |         |                 | 08/31/09 16:06     | SW846 8260B | SMS     | 9084596 |
| Surr: Toluene-d8 (76-129%)                                                  | 116 %  |      |           |         |                 | 08/28/09 17:44     | SW846 8260B | SMS     | 9083572 |
| Surr: Toluene-d8 (76-129%)                                                  | 92 %   |      |           |         |                 | 08/31/09 16:06     | SW846 8260B | SMS     | 9084596 |
| Surr: 4-Bromofluorobenzene (67-147%)                                        | 335 %  | ZX   |           |         |                 | 08/28/09 17:44     | SW846 8260B | SMS     | 9083572 |
| Surr: 4-Bromofluorobenzene (67-147%)                                        | 97 %   |      |           |         |                 | 08/31/09 16:06     | SW846 8260B | SMS     | 9084596 |
| Polyaromatic Hydrocarbons by EPA 8270D                                      |        |      |           |         |                 |                    |             |         |         |
| Acenaphthene                                                                | ND     |      | mg/kg dry | 0.0817  | 1               | 08/30/09 19:41     | SW846 8270D | jlf     | 9083679 |
| Acenaphthylene                                                              | ND     |      | mg/kg dry | 0.0817  | 1               | 08/30/09 19:41     | SW846 8270D | jlf     | 9083679 |
| Anthracene                                                                  | 0.773  |      | mg/kg dry | 0.0817  | 1               | 08/30/09 19:41     | SW846 8270D | jlf     | 9083679 |
| Benzo (a) anthracene                                                        | 0.499  |      | mg/kg dry | 0.0817  | 1               | 08/30/09 19:41     | SW846 8270D | jlf     | 9083679 |
| Benzo (a) pyrene                                                            | 0.197  |      | mg/kg dry | 0.0817  | 1               | 08/30/09 19:41     | SW846 8270D | jlf     | 9083679 |
| Benzo (b) fluoranthene                                                      | 0.228  |      | mg/kg dry | 0.0817  | 1               | 08/30/09 19:41     | SW846 8270D | jlf     | 9083679 |
| Benzo (g,h,i) perylene                                                      | ND     |      | mg/kg dry | 0.0817  | 1               | 08/30/09 19:41     | SW846 8270D | jlf     | 9083679 |
| Benzo (k) fluoranthene                                                      | 0.215  |      | mg/kg dry | 0.0817  | 1               | 08/30/09 19:41     | SW846 8270D | jlf     | 9083679 |
| Chrysene                                                                    | 0.520  |      | mg/kg dry | 0.0817  | 1               | 08/30/09 19:41     | SW846 8270D | jlf     | 9083679 |
| Dibenz (a,h) anthracene                                                     | ND     |      | mg/kg dry | 0.0817  | 1               | 08/30/09 19:41     | SW846 8270D | jlf     | 9083679 |
| Fluoranthene                                                                | 1.30   |      | mg/kg dry | 0.0817  | 1               | 08/30/09 19:41     | SW846 8270D | jlf     | 9083679 |
| Fluorene                                                                    | ND     |      | mg/kg dry | 0.0817  | 1               | 08/30/09 19:41     | SW846 8270D | jlf     | 9083679 |
| Indeno (1,2,3-cd) pyrene                                                    | ND     |      | mg/kg dry | 0.0817  | 1               | 08/30/09 19:41     | SW846 8270D | jlf     | 9083679 |
| Naphthalene                                                                 | ND     |      | mg/kg dry | 0.0817  | 1               | 08/30/09 19:41     | SW846 8270D | jlf     | 9083679 |
| Phenanthrene                                                                | 4.22   |      | mg/kg dry | 0.408   | 5               | 08/31/09 15:40     | SW846 8270D | jlf     | 9083679 |
| Pyrene                                                                      | 1.75   |      | mg/kg dry | 0.0817  | 1               | 08/30/09 19:41     | SW846 8270D | jlf     | 9083679 |
| 1-Methylnaphthalene                                                         | 6.52   |      | mg/kg dry | 0.408   | 5               | 08/31/09 15:40     | SW846 8270D | jlf     | 9083679 |
| 2-Methylnaphthalene                                                         | 9.21   |      | mg/kg dry | 0.408   | 5               | 08/31/09 15:40     | SW846 8270D | jlf     | 9083679 |
| Surr: Terphenyl-d14 (18-120%)                                               | 87 %   |      |           |         |                 | 08/30/09 19:41     | SW846 8270D | jlf     | 9083679 |
| Surr: 2-Fluorobiphenyl (14-120%)                                            | 60 %   |      |           |         |                 | 08/30/09 19:41     | SW846 8270D | jlf     | 9083679 |
| Surr: Nitrobenzene-d5 (17-120%)                                             | 51 %   |      |           |         |                 | 08/30/09 19:41     | SW846 8270D | jlf     | 9083679 |

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

Work Order: NSH1908  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/21/09 08:00

## ANALYTICAL REPORT

| Analyte                                                                     | Result | Flag | Units     | MRL     | Dilution Factor | Analysis Date/Time | Method      | Analyst | Batch   |
|-----------------------------------------------------------------------------|--------|------|-----------|---------|-----------------|--------------------|-------------|---------|---------|
| <b>Sample ID: NSH1908-03 (1478 Cardinal - Soil) Sampled: 08/17/09 13:55</b> |        |      |           |         |                 |                    |             |         |         |
| General Chemistry Parameters                                                |        |      |           |         |                 |                    |             |         |         |
| % Dry Solids                                                                | 90.8   |      | %         | 0.500   | 1               | 09/01/09 08:53     | SW-846      | AJK     | 9085104 |
| Selected Volatile Organic Compounds by EPA Method 8260B                     |        |      |           |         |                 |                    |             |         |         |
| Benzene                                                                     | ND     |      | mg/kg dry | 0.00239 | 1               | 08/31/09 15:30     | SW846 8260B | SMS     | 9084596 |
| Ethylbenzene                                                                | ND     |      | mg/kg dry | 0.00239 | 1               | 08/31/09 15:30     | SW846 8260B | SMS     | 9084596 |
| Naphthalene                                                                 | ND     |      | mg/kg dry | 0.00599 | 1               | 08/31/09 15:30     | SW846 8260B | SMS     | 9084596 |
| Toluene                                                                     | ND     |      | mg/kg dry | 0.00239 | 1               | 08/31/09 15:30     | SW846 8260B | SMS     | 9084596 |
| Xylenes, total                                                              | ND     |      | mg/kg dry | 0.00599 | 1               | 08/31/09 15:30     | SW846 8260B | SMS     | 9084596 |
| Surr: 1,2-Dichloroethane-d4 (67-138%)                                       | 110 %  |      |           |         |                 | 08/31/09 15:30     | SW846 8260B | SMS     | 9084596 |
| Surr: Dichlorofluoromethane (75-125%)                                       | 101 %  |      |           |         |                 | 08/31/09 15:30     | SW846 8260B | SMS     | 9084596 |
| Surr: Toluene-d8 (76-129%)                                                  | 98 %   |      |           |         |                 | 08/31/09 15:30     | SW846 8260B | SMS     | 9084596 |
| Surr: 4-Bromofluorobenzene (67-147%)                                        | 101 %  |      |           |         |                 | 08/31/09 15:30     | SW846 8260B | SMS     | 9084596 |
| Polyaromatic Hydrocarbons by EPA 8270D                                      |        |      |           |         |                 |                    |             |         |         |
| Acenaphthene                                                                | ND     |      | mg/kg dry | 0.0728  | 1               | 08/30/09 20:03     | SW846 8270D | jlf     | 9083679 |
| Acenaphthylene                                                              | ND     |      | mg/kg dry | 0.0728  | 1               | 08/30/09 20:03     | SW846 8270D | jlf     | 9083679 |
| Anthracene                                                                  | 1.05   |      | mg/kg dry | 0.0728  | 1               | 08/30/09 20:03     | SW846 8270D | jlf     | 9083679 |
| Benzo (a) anthracene                                                        | 9.49   |      | mg/kg dry | 0.364   | 5               | 08/31/09 16:04     | SW846 8270D | jlf     | 9083679 |
| Benzo (a) pyrene                                                            | 4.04   |      | mg/kg dry | 0.364   | 5               | 08/31/09 16:04     | SW846 8270D | jlf     | 9083679 |
| Benzo (b) fluoranthene                                                      | 5.92   |      | mg/kg dry | 0.364   | 5               | 08/31/09 16:04     | SW846 8270D | jlf     | 9083679 |
| Benzo (g,h,i) perylene                                                      | 1.35   |      | mg/kg dry | 0.0728  | 1               | 08/30/09 20:03     | SW846 8270D | jlf     | 9083679 |
| Benzo (k) fluoranthene                                                      | 3.59   |      | mg/kg dry | 0.0728  | 1               | 08/30/09 20:03     | SW846 8270D | jlf     | 9083679 |
| Chrysene                                                                    | 11.2   |      | mg/kg dry | 0.364   | 5               | 08/31/09 16:04     | SW846 8270D | jlf     | 9083679 |
| Dibenz (a,h) anthracene                                                     | 0.733  |      | mg/kg dry | 0.0728  | 1               | 08/30/09 20:03     | SW846 8270D | jlf     | 9083679 |
| Fluoranthene                                                                | 22.2   |      | mg/kg dry | 0.728   | 10              | 08/31/09 16:27     | SW846 8270D | jlf     | 9083679 |
| Fluorene                                                                    | 0.0909 |      | mg/kg dry | 0.0728  | 1               | 08/30/09 20:03     | SW846 8270D | jlf     | 9083679 |
| Indeno (1,2,3-cd) pyrene                                                    | 1.49   |      | mg/kg dry | 0.0728  | 1               | 08/30/09 20:03     | SW846 8270D | jlf     | 9083679 |
| Naphthalene                                                                 | ND     |      | mg/kg dry | 0.0728  | 1               | 08/30/09 20:03     | SW846 8270D | jlf     | 9083679 |
| Phenanthrene                                                                | 4.45   |      | mg/kg dry | 0.364   | 5               | 08/31/09 16:04     | SW846 8270D | jlf     | 9083679 |
| Pyrene                                                                      | 19.6   |      | mg/kg dry | 0.728   | 10              | 08/31/09 16:27     | SW846 8270D | jlf     | 9083679 |
| 1-Methylnaphthalene                                                         | ND     |      | mg/kg dry | 0.0728  | 1               | 08/30/09 20:03     | SW846 8270D | jlf     | 9083679 |
| 2-Methylnaphthalene                                                         | ND     |      | mg/kg dry | 0.0728  | 1               | 08/30/09 20:03     | SW846 8270D | jlf     | 9083679 |
| Surr: Terphenyl-d14 (18-120%)                                               | 63 %   |      |           |         |                 | 08/30/09 20:03     | SW846 8270D | jlf     | 9083679 |
| Surr: 2-Fluorobiphenyl (14-120%)                                            | 61 %   |      |           |         |                 | 08/30/09 20:03     | SW846 8270D | jlf     | 9083679 |
| Surr: Nitrobenzene-d5 (17-120%)                                             | 55 %   |      |           |         |                 | 08/30/09 20:03     | SW846 8270D | jlf     | 9083679 |

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

Work Order: NSH1908  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/21/09 08:00

## ANALYTICAL REPORT

| Analyte                                                                     | Result | Flag | Units     | MRL     | Dilution Factor | Analysis Date/Time | Method      | Analyst | Batch   |
|-----------------------------------------------------------------------------|--------|------|-----------|---------|-----------------|--------------------|-------------|---------|---------|
| <b>Sample ID: NSH1908-04 (1485 Cardinal - Soil) Sampled: 08/17/09 15:45</b> |        |      |           |         |                 |                    |             |         |         |
| General Chemistry Parameters                                                |        |      |           |         |                 |                    |             |         |         |
| % Dry Solids                                                                | 82.9   |      | %         | 0.500   | 1               | 09/02/09 08:39     | SW-846      | DEA     | 9085103 |
| Selected Volatile Organic Compounds by EPA Method 8260B                     |        |      |           |         |                 |                    |             |         |         |
| Benzene                                                                     | ND     |      | mg/kg dry | 0.00233 | 1               | 08/28/09 18:44     | SW846 8260B | SMS     | 9083572 |
| Ethylbenzene                                                                | 1.04   |      | mg/kg dry | 0.121   | 50              | 08/29/09 20:25     | SW846 8260B | CMM     | 9084594 |
| Naphthalene                                                                 | 31.7   |      | mg/kg dry | 3.02    | 500             | 08/31/09 12:49     | SW846 8260B | CMM     | 9085066 |
| Toluene                                                                     | ND     |      | mg/kg dry | 0.121   | 50              | 08/29/09 20:25     | SW846 8260B | CMM     | 9084594 |
| Xylenes, total                                                              | ND     |      | mg/kg dry | 0.302   | 50              | 08/29/09 20:25     | SW846 8260B | CMM     | 9084594 |
| Surr: 1,2-Dichloroethane-d4 (67-138%)                                       | 130 %  |      |           |         |                 | 08/28/09 18:44     | SW846 8260B | SMS     | 9083572 |
| Surr: 1,2-Dichloroethane-d4 (67-138%)                                       | 110 %  |      |           |         |                 | 08/29/09 20:25     | SW846 8260B | CMM     | 9084594 |
| Surr: 1,2-Dichloroethane-d4 (67-138%)                                       | 101 %  |      |           |         |                 | 08/31/09 12:49     | SW846 8260B | CMM     | 9085066 |
| Surr: Dibromofluoromethane (75-125%)                                        | 118 %  |      |           |         |                 | 08/28/09 18:44     | SW846 8260B | SMS     | 9083572 |
| Surr: Dibromofluoromethane (75-125%)                                        | 107 %  |      |           |         |                 | 08/29/09 20:25     | SW846 8260B | CMM     | 9084594 |
| Surr: Dibromofluoromethane (75-125%)                                        | 97 %   |      |           |         |                 | 08/31/09 12:49     | SW846 8260B | CMM     | 9085066 |
| Surr: Toluene-d8 (76-129%)                                                  | 544 %  | ZX   |           |         |                 | 08/28/09 18:44     | SW846 8260B | SMS     | 9083572 |
| Surr: Toluene-d8 (76-129%)                                                  | 103 %  |      |           |         |                 | 08/29/09 20:25     | SW846 8260B | CMM     | 9084594 |
| Surr: Toluene-d8 (76-129%)                                                  | 101 %  |      |           |         |                 | 08/31/09 12:49     | SW846 8260B | CMM     | 9085066 |
| Surr: 4-Bromofluorobenzene (67-147%)                                        | 651 %  | ZX   |           |         |                 | 08/28/09 18:44     | SW846 8260B | SMS     | 9083572 |
| Surr: 4-Bromofluorobenzene (67-147%)                                        | 151 %  | ZX   |           |         |                 | 08/29/09 20:25     | SW846 8260B | CMM     | 9084594 |
| Surr: 4-Bromofluorobenzene (67-147%)                                        | 107 %  |      |           |         |                 | 08/31/09 12:49     | SW846 8260B | CMM     | 9085066 |
| Polyaromatic Hydrocarbons by EPA 8270D                                      |        |      |           |         |                 |                    |             |         |         |
| Acenaphthene                                                                | 6.30   |      | mg/kg dry | 0.788   | 10              | 08/31/09 15:18     | SW846 8270D | jlf     | 9083679 |
| Acenaphthylene                                                              | ND     |      | mg/kg dry | 0.788   | 10              | 08/31/09 15:18     | SW846 8270D | jlf     | 9083679 |
| Anthracene                                                                  | 12.1   |      | mg/kg dry | 0.788   | 10              | 08/31/09 15:18     | SW846 8270D | jlf     | 9083679 |
| Benzo (a) anthracene                                                        | 14.5   |      | mg/kg dry | 0.788   | 10              | 08/31/09 15:18     | SW846 8270D | jlf     | 9083679 |
| Benzo (a) pyrene                                                            | 5.27   |      | mg/kg dry | 0.788   | 10              | 08/31/09 15:18     | SW846 8270D | jlf     | 9083679 |
| Benzo (b) fluoranthene                                                      | 6.13   |      | mg/kg dry | 0.788   | 10              | 08/31/09 15:18     | SW846 8270D | jlf     | 9083679 |
| Benzo (g,h,i) perylene                                                      | 1.51   |      | mg/kg dry | 0.788   | 10              | 08/31/09 15:18     | SW846 8270D | jlf     | 9083679 |
| Benzo (k) fluoranthene                                                      | 5.36   |      | mg/kg dry | 0.788   | 10              | 08/31/09 15:18     | SW846 8270D | jlf     | 9083679 |
| Chrysene                                                                    | 10.1   |      | mg/kg dry | 0.788   | 10              | 08/31/09 15:18     | SW846 8270D | jlf     | 9083679 |
| Dibenz (a,h) anthracene                                                     | ND     |      | mg/kg dry | 0.788   | 10              | 08/31/09 15:18     | SW846 8270D | jlf     | 9083679 |
| Fluoranthene                                                                | 56.4   |      | mg/kg dry | 3.94    | 50              | 08/31/09 17:12     | SW846 8270D | jlf     | 9083679 |
| Fluorene                                                                    | 13.8   |      | mg/kg dry | 0.788   | 10              | 08/31/09 15:18     | SW846 8270D | jlf     | 9083679 |
| Indeno (1,2,3-cd) pyrene                                                    | 1.57   |      | mg/kg dry | 0.788   | 10              | 08/31/09 15:18     | SW846 8270D | jlf     | 9083679 |
| Naphthalene                                                                 | 7.60   |      | mg/kg dry | 0.788   | 10              | 08/31/09 15:18     | SW846 8270D | jlf     | 9083679 |
| Phenanthrene                                                                | 61.7   |      | mg/kg dry | 3.94    | 50              | 08/31/09 17:12     | SW846 8270D | jlf     | 9083679 |
| Pyrene                                                                      | 51.7   |      | mg/kg dry | 3.94    | 50              | 08/31/09 17:12     | SW846 8270D | jlf     | 9083679 |
| 1-Methylnaphthalene                                                         | 37.4   |      | mg/kg dry | 3.94    | 50              | 08/31/09 17:12     | SW846 8270D | jlf     | 9083679 |
| 2-Methylnaphthalene                                                         | 57.2   |      | mg/kg dry | 3.94    | 50              | 08/31/09 17:12     | SW846 8270D | jlf     | 9083679 |
| Surr: Terphenyl-d14 (18-120%)                                               | 84 %   |      |           |         |                 | 08/31/09 15:18     | SW846 8270D | jlf     | 9083679 |
| Surr: 2-Fluorobiphenyl (14-120%)                                            | 76 %   |      |           |         |                 | 08/31/09 15:18     | SW846 8270D | jlf     | 9083679 |
| Surr: Nitrobenzene-d5 (17-120%)                                             | 44 %   |      |           |         |                 | 08/31/09 15:18     | SW846 8270D | jlf     | 9083679 |



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

Work Order: NSH1908  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/21/09 08:00

## ANALYTICAL REPORT

| Analyte                                                                     | Result | Flag | Units     | MRL     | Dilution Factor | Analysis Date/Time | Method      | Analyst | Batch   |
|-----------------------------------------------------------------------------|--------|------|-----------|---------|-----------------|--------------------|-------------|---------|---------|
| <b>Sample ID: NSH1908-05 (1176 Bobwhite - Soil) Sampled: 08/18/09 10:05</b> |        |      |           |         |                 |                    |             |         |         |
| General Chemistry Parameters                                                |        |      |           |         |                 |                    |             |         |         |
| % Dry Solids                                                                | 94.1   |      | %         | 0.500   | 1               | 09/02/09 08:39     | SW-846      | DEA     | 9085103 |
| Selected Volatile Organic Compounds by EPA Method 8260B                     |        |      |           |         |                 |                    |             |         |         |
| Benzene                                                                     | ND     |      | mg/kg dry | 0.00247 | 1               | 08/31/09 16:36     | SW846 8260B | SMS     | 9084596 |
| Ethylbenzene                                                                | ND     |      | mg/kg dry | 0.00247 | 1               | 08/31/09 16:36     | SW846 8260B | SMS     | 9084596 |
| Naphthalene                                                                 | ND     |      | mg/kg dry | 0.00618 | 1               | 08/31/09 16:36     | SW846 8260B | SMS     | 9084596 |
| Toluene                                                                     | ND     |      | mg/kg dry | 0.00247 | 1               | 08/31/09 16:36     | SW846 8260B | SMS     | 9084596 |
| Xylenes, total                                                              | ND     |      | mg/kg dry | 0.00618 | 1               | 08/31/09 16:36     | SW846 8260B | SMS     | 9084596 |
| Surr: 1,2-Dichloroethane-d4 (67-138%)                                       | 99 %   |      |           |         |                 | 08/31/09 16:36     | SW846 8260B | SMS     | 9084596 |
| Surr: Dibromofluoromethane (75-125%)                                        | 95 %   |      |           |         |                 | 08/31/09 16:36     | SW846 8260B | SMS     | 9084596 |
| Surr: Toluene-d8 (76-129%)                                                  | 96 %   |      |           |         |                 | 08/31/09 16:36     | SW846 8260B | SMS     | 9084596 |
| Surr: 4-Bromofluorobenzene (67-147%)                                        | 99 %   |      |           |         |                 | 08/31/09 16:36     | SW846 8260B | SMS     | 9084596 |
| Polyaromatic Hydrocarbons by EPA 8270D                                      |        |      |           |         |                 |                    |             |         |         |
| Acenaphthene                                                                | ND     |      | mg/kg dry | 0.0692  | 1               | 08/30/09 20:48     | SW846 8270D | jlf     | 9083679 |
| Acenaphthylene                                                              | ND     |      | mg/kg dry | 0.0692  | 1               | 08/30/09 20:48     | SW846 8270D | jlf     | 9083679 |
| Anthracene                                                                  | ND     |      | mg/kg dry | 0.0692  | 1               | 08/30/09 20:48     | SW846 8270D | jlf     | 9083679 |
| Benzo (a) anthracene                                                        | ND     |      | mg/kg dry | 0.0692  | 1               | 08/30/09 20:48     | SW846 8270D | jlf     | 9083679 |
| Benzo (a) pyrene                                                            | ND     |      | mg/kg dry | 0.0692  | 1               | 08/30/09 20:48     | SW846 8270D | jlf     | 9083679 |
| Benzo (b) fluoranthene                                                      | ND     |      | mg/kg dry | 0.0692  | 1               | 08/30/09 20:48     | SW846 8270D | jlf     | 9083679 |
| Benzo (g,h,i) perylene                                                      | ND     |      | mg/kg dry | 0.0692  | 1               | 08/30/09 20:48     | SW846 8270D | jlf     | 9083679 |
| Benzo (k) fluoranthene                                                      | ND     |      | mg/kg dry | 0.0692  | 1               | 08/30/09 20:48     | SW846 8270D | jlf     | 9083679 |
| Chrysene                                                                    | ND     |      | mg/kg dry | 0.0692  | 1               | 08/30/09 20:48     | SW846 8270D | jlf     | 9083679 |
| Dibenz (a,h) anthracene                                                     | ND     |      | mg/kg dry | 0.0692  | 1               | 08/30/09 20:48     | SW846 8270D | jlf     | 9083679 |
| Fluoranthene                                                                | ND     |      | mg/kg dry | 0.0692  | 1               | 08/30/09 20:48     | SW846 8270D | jlf     | 9083679 |
| Fluorene                                                                    | ND     |      | mg/kg dry | 0.0692  | 1               | 08/30/09 20:48     | SW846 8270D | jlf     | 9083679 |
| Indeno (1,2,3-cd) pyrene                                                    | ND     |      | mg/kg dry | 0.0692  | 1               | 08/30/09 20:48     | SW846 8270D | jlf     | 9083679 |
| Naphthalene                                                                 | ND     |      | mg/kg dry | 0.0692  | 1               | 08/30/09 20:48     | SW846 8270D | jlf     | 9083679 |
| Phenanthrene                                                                | ND     |      | mg/kg dry | 0.0692  | 1               | 08/30/09 20:48     | SW846 8270D | jlf     | 9083679 |
| Pyrene                                                                      | ND     |      | mg/kg dry | 0.0692  | 1               | 08/30/09 20:48     | SW846 8270D | jlf     | 9083679 |
| 1-Methylnaphthalene                                                         | ND     |      | mg/kg dry | 0.0692  | 1               | 08/30/09 20:48     | SW846 8270D | jlf     | 9083679 |
| 2-Methylnaphthalene                                                         | ND     |      | mg/kg dry | 0.0692  | 1               | 08/30/09 20:48     | SW846 8270D | jlf     | 9083679 |
| Surr: Terphenyl-d14 (18-120%)                                               | 75 %   |      |           |         |                 | 08/30/09 20:48     | SW846 8270D | jlf     | 9083679 |
| Surr: 2-Fluorobiphenyl (14-120%)                                            | 56 %   |      |           |         |                 | 08/30/09 20:48     | SW846 8270D | jlf     | 9083679 |
| Surr: Nitrobenzene-d5 (17-120%)                                             | 53 %   |      |           |         |                 | 08/30/09 20:48     | SW846 8270D | jlf     | 9083679 |



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

Work Order: NSH1908  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/21/09 08:00

## ANALYTICAL REPORT

| Analyte                                                                     | Result | Flag | Units     | MRL     | Dilution Factor | Analysis Date/Time | Method      | Analyst | Batch   |
|-----------------------------------------------------------------------------|--------|------|-----------|---------|-----------------|--------------------|-------------|---------|---------|
| <b>Sample ID: NSH1908-06 (1172 Bobwhite - Soil) Sampled: 08/18/09 09:45</b> |        |      |           |         |                 |                    |             |         |         |
| General Chemistry Parameters                                                |        |      |           |         |                 |                    |             |         |         |
| % Dry Solids                                                                | 76.4   |      | %         | 0.500   | 1               | 09/02/09 08:39     | SW-846      | DEA     | 9085103 |
| Selected Volatile Organic Compounds by EPA Method 8260B                     |        |      |           |         |                 |                    |             |         |         |
| Benzene                                                                     | ND     |      | mg/kg dry | 0.00220 | 1               | 08/31/09 17:06     | SW846 8260B | SMS     | 9084596 |
| Ethylbenzene                                                                | ND     |      | mg/kg dry | 0.00220 | 1               | 08/31/09 17:06     | SW846 8260B | SMS     | 9084596 |
| Naphthalene                                                                 | ND     |      | mg/kg dry | 0.00550 | 1               | 08/31/09 17:06     | SW846 8260B | SMS     | 9084596 |
| Toluene                                                                     | ND     |      | mg/kg dry | 0.00220 | 1               | 08/31/09 17:06     | SW846 8260B | SMS     | 9084596 |
| Xylenes, total                                                              | ND     |      | mg/kg dry | 0.00550 | 1               | 08/31/09 17:06     | SW846 8260B | SMS     | 9084596 |
| Surr: 1,2-Dichloroethane-d4 (67-138%)                                       | 105 %  |      |           |         |                 | 08/31/09 17:06     | SW846 8260B | SMS     | 9084596 |
| Surr: Dibromofluoromethane (75-125%)                                        | 100 %  |      |           |         |                 | 08/31/09 17:06     | SW846 8260B | SMS     | 9084596 |
| Surr: Toluene-d8 (76-129%)                                                  | 99 %   |      |           |         |                 | 08/31/09 17:06     | SW846 8260B | SMS     | 9084596 |
| Surr: 4-Bromofluorobenzene (67-147%)                                        | 104 %  |      |           |         |                 | 08/31/09 17:06     | SW846 8260B | SMS     | 9084596 |
| Polyaromatic Hydrocarbons by EPA 8270D                                      |        |      |           |         |                 |                    |             |         |         |
| Acenaphthene                                                                | ND     |      | mg/kg dry | 0.0865  | 1               | 08/30/09 21:11     | SW846 8270D | jlf     | 9083679 |
| Acenaphthylene                                                              | ND     |      | mg/kg dry | 0.0865  | 1               | 08/30/09 21:11     | SW846 8270D | jlf     | 9083679 |
| Anthracene                                                                  | ND     |      | mg/kg dry | 0.0865  | 1               | 08/30/09 21:11     | SW846 8270D | jlf     | 9083679 |
| Benzo (a) anthracene                                                        | ND     |      | mg/kg dry | 0.0865  | 1               | 08/30/09 21:11     | SW846 8270D | jlf     | 9083679 |
| Benzo (a) pyrene                                                            | ND     |      | mg/kg dry | 0.0865  | 1               | 08/30/09 21:11     | SW846 8270D | jlf     | 9083679 |
| Benzo (b) fluoranthene                                                      | ND     |      | mg/kg dry | 0.0865  | 1               | 08/30/09 21:11     | SW846 8270D | jlf     | 9083679 |
| Benzo (g,h,i) perylene                                                      | ND     |      | mg/kg dry | 0.0865  | 1               | 08/30/09 21:11     | SW846 8270D | jlf     | 9083679 |
| Benzo (k) fluoranthene                                                      | ND     |      | mg/kg dry | 0.0865  | 1               | 08/30/09 21:11     | SW846 8270D | jlf     | 9083679 |
| Chrysene                                                                    | ND     |      | mg/kg dry | 0.0865  | 1               | 08/30/09 21:11     | SW846 8270D | jlf     | 9083679 |
| Dibenz (a,h) anthracene                                                     | ND     |      | mg/kg dry | 0.0865  | 1               | 08/30/09 21:11     | SW846 8270D | jlf     | 9083679 |
| Fluoranthene                                                                | ND     |      | mg/kg dry | 0.0865  | 1               | 08/30/09 21:11     | SW846 8270D | jlf     | 9083679 |
| Fluorene                                                                    | ND     |      | mg/kg dry | 0.0865  | 1               | 08/30/09 21:11     | SW846 8270D | jlf     | 9083679 |
| Indeno (1,2,3-cd) pyrene                                                    | ND     |      | mg/kg dry | 0.0865  | 1               | 08/30/09 21:11     | SW846 8270D | jlf     | 9083679 |
| Naphthalene                                                                 | ND     |      | mg/kg dry | 0.0865  | 1               | 08/30/09 21:11     | SW846 8270D | jlf     | 9083679 |
| Phenanthrene                                                                | ND     |      | mg/kg dry | 0.0865  | 1               | 08/30/09 21:11     | SW846 8270D | jlf     | 9083679 |
| Pyrene                                                                      | ND     |      | mg/kg dry | 0.0865  | 1               | 08/30/09 21:11     | SW846 8270D | jlf     | 9083679 |
| 1-Methylnaphthalene                                                         | ND     |      | mg/kg dry | 0.0865  | 1               | 08/30/09 21:11     | SW846 8270D | jlf     | 9083679 |
| 2-Methylnaphthalene                                                         | ND     |      | mg/kg dry | 0.0865  | 1               | 08/30/09 21:11     | SW846 8270D | jlf     | 9083679 |
| Surr: Terphenyl-d14 (18-120%)                                               | 81 %   |      |           |         |                 | 08/30/09 21:11     | SW846 8270D | jlf     | 9083679 |
| Surr: 2-Fluorobiphenyl (14-120%)                                            | 57 %   |      |           |         |                 | 08/30/09 21:11     | SW846 8270D | jlf     | 9083679 |
| Surr: Nitrobenzene-d5 (17-120%)                                             | 54 %   |      |           |         |                 | 08/30/09 21:11     | SW846 8270D | jlf     | 9083679 |

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

Work Order: NSH1908  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/21/09 08:00

## ANALYTICAL REPORT

| Analyte                                                                     | Result | Flag | Units     | MRL     | Dilution Factor | Analysis Date/Time | Method      | Analyst | Batch   |
|-----------------------------------------------------------------------------|--------|------|-----------|---------|-----------------|--------------------|-------------|---------|---------|
| <b>Sample ID: NSH1908-07 (1180 Bobwhite - Soil) Sampled: 08/18/09 13:45</b> |        |      |           |         |                 |                    |             |         |         |
| General Chemistry Parameters                                                |        |      |           |         |                 |                    |             |         |         |
| % Dry Solids                                                                | 88.1   |      | %         | 0.500   | 1               | 09/02/09 08:39     | SW-846      | DEA     | 9085103 |
| Selected Volatile Organic Compounds by EPA Method 8260B                     |        |      |           |         |                 |                    |             |         |         |
| Benzene                                                                     | ND     |      | mg/kg dry | 0.00238 | 1               | 08/28/09 20:14     | SW846 8260B | SMS     | 9083572 |
| Ethylbenzene                                                                | ND     |      | mg/kg dry | 0.00238 | 1               | 08/28/09 20:14     | SW846 8260B | SMS     | 9083572 |
| Naphthalene                                                                 | 0.0164 |      | mg/kg dry | 0.00595 | 1               | 08/28/09 20:14     | SW846 8260B | SMS     | 9083572 |
| Toluene                                                                     | ND     |      | mg/kg dry | 0.00238 | 1               | 08/28/09 20:14     | SW846 8260B | SMS     | 9083572 |
| Xylenes, total                                                              | ND     |      | mg/kg dry | 0.00595 | 1               | 08/28/09 20:14     | SW846 8260B | SMS     | 9083572 |
| Surr: 1,2-Dichloroethane-d4 (67-138%)                                       | 108 %  |      |           |         |                 | 08/28/09 20:14     | SW846 8260B | SMS     | 9083572 |
| Surr: Dibromofluoromethane (75-125%)                                        | 93 %   |      |           |         |                 | 08/28/09 20:14     | SW846 8260B | SMS     | 9083572 |
| Surr: Toluene-d8 (76-129%)                                                  | 102 %  |      |           |         |                 | 08/28/09 20:14     | SW846 8260B | SMS     | 9083572 |
| Surr: 4-Bromofluorobenzene (67-147%)                                        | 116 %  |      |           |         |                 | 08/28/09 20:14     | SW846 8260B | SMS     | 9083572 |
| Polyaromatic Hydrocarbons by EPA 8270D                                      |        |      |           |         |                 |                    |             |         |         |
| Acenaphthene                                                                | ND     |      | mg/kg dry | 0.0745  | 1               | 08/30/09 21:33     | SW846 8270D | jlf     | 9083679 |
| Acenaphthylene                                                              | ND     |      | mg/kg dry | 0.0745  | 1               | 08/30/09 21:33     | SW846 8270D | jlf     | 9083679 |
| Anthracene                                                                  | ND     |      | mg/kg dry | 0.0745  | 1               | 08/30/09 21:33     | SW846 8270D | jlf     | 9083679 |
| Benzo (a) anthracene                                                        | ND     |      | mg/kg dry | 0.0745  | 1               | 08/30/09 21:33     | SW846 8270D | jlf     | 9083679 |
| Benzo (a) pyrene                                                            | ND     |      | mg/kg dry | 0.0745  | 1               | 08/30/09 21:33     | SW846 8270D | jlf     | 9083679 |
| Benzo (b) fluoranthene                                                      | ND     |      | mg/kg dry | 0.0745  | 1               | 08/30/09 21:33     | SW846 8270D | jlf     | 9083679 |
| Benzo (g,h,i) perylene                                                      | ND     |      | mg/kg dry | 0.0745  | 1               | 08/30/09 21:33     | SW846 8270D | jlf     | 9083679 |
| Benzo (k) fluoranthene                                                      | ND     |      | mg/kg dry | 0.0745  | 1               | 08/30/09 21:33     | SW846 8270D | jlf     | 9083679 |
| Chrysene                                                                    | ND     |      | mg/kg dry | 0.0745  | 1               | 08/30/09 21:33     | SW846 8270D | jlf     | 9083679 |
| Dibenz (a,h) anthracene                                                     | ND     |      | mg/kg dry | 0.0745  | 1               | 08/30/09 21:33     | SW846 8270D | jlf     | 9083679 |
| Fluoranthene                                                                | 0.102  |      | mg/kg dry | 0.0745  | 1               | 08/30/09 21:33     | SW846 8270D | jlf     | 9083679 |
| Fluorene                                                                    | ND     |      | mg/kg dry | 0.0745  | 1               | 08/30/09 21:33     | SW846 8270D | jlf     | 9083679 |
| Indeno (1,2,3-cd) pyrene                                                    | ND     |      | mg/kg dry | 0.0745  | 1               | 08/30/09 21:33     | SW846 8270D | jlf     | 9083679 |
| Naphthalene                                                                 | ND     |      | mg/kg dry | 0.0745  | 1               | 08/30/09 21:33     | SW846 8270D | jlf     | 9083679 |
| Phenanthrene                                                                | 0.256  |      | mg/kg dry | 0.0745  | 1               | 08/30/09 21:33     | SW846 8270D | jlf     | 9083679 |
| Pyrene                                                                      | 0.127  |      | mg/kg dry | 0.0745  | 1               | 08/30/09 21:33     | SW846 8270D | jlf     | 9083679 |
| 1-Methylnaphthalene                                                         | ND     |      | mg/kg dry | 0.0745  | 1               | 08/30/09 21:33     | SW846 8270D | jlf     | 9083679 |
| 2-Methylnaphthalene                                                         | ND     |      | mg/kg dry | 0.0745  | 1               | 08/30/09 21:33     | SW846 8270D | jlf     | 9083679 |
| Surr: Terphenyl-d14 (18-120%)                                               | 86 %   |      |           |         |                 | 08/30/09 21:33     | SW846 8270D | jlf     | 9083679 |
| Surr: 2-Fluorobiphenyl (14-120%)                                            | 67 %   |      |           |         |                 | 08/30/09 21:33     | SW846 8270D | jlf     | 9083679 |
| Surr: Nitrobenzene-d5 (17-120%)                                             | 62 %   |      |           |         |                 | 08/30/09 21:33     | SW846 8270D | jlf     | 9083679 |

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

Work Order: NSH1908  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/21/09 08:00

## ANALYTICAL REPORT

| Analyte                                                                     | Result | Flag | Units     | MRL     | Dilution Factor | Analysis Date/Time | Method      | Analyst | Batch   |
|-----------------------------------------------------------------------------|--------|------|-----------|---------|-----------------|--------------------|-------------|---------|---------|
| <b>Sample ID: NSH1908-08 (1182 Bobwhite - Soil) Sampled: 08/18/09 14:05</b> |        |      |           |         |                 |                    |             |         |         |
| General Chemistry Parameters                                                |        |      |           |         |                 |                    |             |         |         |
| % Dry Solids                                                                | 80.6   |      | %         | 0.500   | 1               | 09/02/09 08:39     | SW-846      | DEA     | 9085103 |
| Selected Volatile Organic Compounds by EPA Method 8260B                     |        |      |           |         |                 |                    |             |         |         |
| Benzene                                                                     | ND     |      | mg/kg dry | 0.00230 | 1               | 08/28/09 20:44     | SW846 8260B | SMS     | 9083572 |
| Ethylbenzene                                                                | ND     |      | mg/kg dry | 0.00230 | 1               | 08/28/09 20:44     | SW846 8260B | SMS     | 9083572 |
| Naphthalene                                                                 | ND     |      | mg/kg dry | 0.00575 | 1               | 08/28/09 20:44     | SW846 8260B | SMS     | 9083572 |
| Toluene                                                                     | ND     |      | mg/kg dry | 0.00230 | 1               | 08/28/09 20:44     | SW846 8260B | SMS     | 9083572 |
| Xylenes, total                                                              | ND     |      | mg/kg dry | 0.00575 | 1               | 08/28/09 20:44     | SW846 8260B | SMS     | 9083572 |
| Surr: 1,2-Dichloroethane-d4 (67-138%)                                       | 96 %   |      |           |         |                 | 08/28/09 20:44     | SW846 8260B | SMS     | 9083572 |
| Surr: Dibromofluoromethane (75-125%)                                        | 90 %   |      |           |         |                 | 08/28/09 20:44     | SW846 8260B | SMS     | 9083572 |
| Surr: Toluene-d8 (76-129%)                                                  | 103 %  |      |           |         |                 | 08/28/09 20:44     | SW846 8260B | SMS     | 9083572 |
| Surr: 4-Bromofluorobenzene (67-147%)                                        | 102 %  |      |           |         |                 | 08/28/09 20:44     | SW846 8260B | SMS     | 9083572 |
| Polyaromatic Hydrocarbons by EPA 8270D                                      |        |      |           |         |                 |                    |             |         |         |
| Acenaphthene                                                                | ND     |      | mg/kg dry | 0.0818  | 1               | 08/30/09 21:56     | SW846 8270D | jlf     | 9083679 |
| Acenaphthylene                                                              | ND     |      | mg/kg dry | 0.0818  | 1               | 08/30/09 21:56     | SW846 8270D | jlf     | 9083679 |
| Anthracene                                                                  | ND     |      | mg/kg dry | 0.0818  | 1               | 08/30/09 21:56     | SW846 8270D | jlf     | 9083679 |
| Benzo (a) anthracene                                                        | ND     |      | mg/kg dry | 0.0818  | 1               | 08/30/09 21:56     | SW846 8270D | jlf     | 9083679 |
| Benzo (a) pyrene                                                            | ND     |      | mg/kg dry | 0.0818  | 1               | 08/30/09 21:56     | SW846 8270D | jlf     | 9083679 |
| Benzo (b) fluoranthene                                                      | ND     |      | mg/kg dry | 0.0818  | 1               | 08/30/09 21:56     | SW846 8270D | jlf     | 9083679 |
| Benzo (g,h,i) perylene                                                      | ND     |      | mg/kg dry | 0.0818  | 1               | 08/30/09 21:56     | SW846 8270D | jlf     | 9083679 |
| Benzo (k) fluoranthene                                                      | ND     |      | mg/kg dry | 0.0818  | 1               | 08/30/09 21:56     | SW846 8270D | jlf     | 9083679 |
| Chrysene                                                                    | ND     |      | mg/kg dry | 0.0818  | 1               | 08/30/09 21:56     | SW846 8270D | jlf     | 9083679 |
| Dibenz (a,h) anthracene                                                     | ND     |      | mg/kg dry | 0.0818  | 1               | 08/30/09 21:56     | SW846 8270D | jlf     | 9083679 |
| Fluoranthene                                                                | ND     |      | mg/kg dry | 0.0818  | 1               | 08/30/09 21:56     | SW846 8270D | jlf     | 9083679 |
| Fluorene                                                                    | ND     |      | mg/kg dry | 0.0818  | 1               | 08/30/09 21:56     | SW846 8270D | jlf     | 9083679 |
| Indeno (1,2,3-cd) pyrene                                                    | ND     |      | mg/kg dry | 0.0818  | 1               | 08/30/09 21:56     | SW846 8270D | jlf     | 9083679 |
| Naphthalene                                                                 | ND     |      | mg/kg dry | 0.0818  | 1               | 08/30/09 21:56     | SW846 8270D | jlf     | 9083679 |
| Phenanthrene                                                                | ND     |      | mg/kg dry | 0.0818  | 1               | 08/30/09 21:56     | SW846 8270D | jlf     | 9083679 |
| Pyrene                                                                      | ND     |      | mg/kg dry | 0.0818  | 1               | 08/30/09 21:56     | SW846 8270D | jlf     | 9083679 |
| 1-Methylnaphthalene                                                         | ND     |      | mg/kg dry | 0.0818  | 1               | 08/30/09 21:56     | SW846 8270D | jlf     | 9083679 |
| 2-Methylnaphthalene                                                         | ND     |      | mg/kg dry | 0.0818  | 1               | 08/30/09 21:56     | SW846 8270D | jlf     | 9083679 |
| Surr: Terphenyl-d14 (18-120%)                                               | 84 %   |      |           |         |                 | 08/30/09 21:56     | SW846 8270D | jlf     | 9083679 |
| Surr: 2-Fluorobiphenyl (14-120%)                                            | 55 %   |      |           |         |                 | 08/30/09 21:56     | SW846 8270D | jlf     | 9083679 |
| Surr: Nitrobenzene-d5 (17-120%)                                             | 52 %   |      |           |         |                 | 08/30/09 21:56     | SW846 8270D | jlf     | 9083679 |

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

Work Order: NSH1908  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/21/09 08:00

## SAMPLE EXTRACTION DATA

| Parameter                                               | Batch   | Lab Number    | Wt/Vol<br>Extracted | Extracted Vol | Date           | Analyst | Extraction<br>Method |
|---------------------------------------------------------|---------|---------------|---------------------|---------------|----------------|---------|----------------------|
| Polyaromatic Hydrocarbons by EPA 8270D                  |         |               |                     |               |                |         |                      |
| SW846 8270D                                             | 9083679 | NSH1908-01    | 30.39               | 1.00          | 08/28/09 09:15 | AJF     | EPA 3550B            |
| SW846 8270D                                             | 9083679 | NSH1908-02    | 30.57               | 1.00          | 08/28/09 09:15 | AJF     | EPA 3550B            |
| SW846 8270D                                             | 9083679 | NSH1908-02RE1 | 30.57               | 1.00          | 08/28/09 09:15 | AJF     | EPA 3550B            |
| SW846 8270D                                             | 9083679 | NSH1908-03    | 30.40               | 1.00          | 08/28/09 09:15 | AJF     | EPA 3550B            |
| SW846 8270D                                             | 9083679 | NSH1908-03RE1 | 30.40               | 1.00          | 08/28/09 09:15 | AJF     | EPA 3550B            |
| SW846 8270D                                             | 9083679 | NSH1908-03RE2 | 30.40               | 1.00          | 08/28/09 09:15 | AJF     | EPA 3550B            |
| SW846 8270D                                             | 9083679 | NSH1908-04    | 30.78               | 1.00          | 08/28/09 09:15 | AJF     | EPA 3550B            |
| SW846 8270D                                             | 9083679 | NSH1908-04RE1 | 30.78               | 1.00          | 08/28/09 09:15 | AJF     | EPA 3550B            |
| SW846 8270D                                             | 9083679 | NSH1908-04RE2 | 30.78               | 1.00          | 08/28/09 09:15 | AJF     | EPA 3550B            |
| SW846 8270D                                             | 9083679 | NSH1908-05    | 30.86               | 1.00          | 08/28/09 09:15 | AJF     | EPA 3550B            |
| SW846 8270D                                             | 9083679 | NSH1908-06    | 30.42               | 1.00          | 08/28/09 09:15 | AJF     | EPA 3550B            |
| SW846 8270D                                             | 9083679 | NSH1908-07    | 30.61               | 1.00          | 08/28/09 09:15 | AJF     | EPA 3550B            |
| SW846 8270D                                             | 9083679 | NSH1908-08    | 30.47               | 1.00          | 08/28/09 09:15 | AJF     | EPA 3550B            |
| Selected Volatile Organic Compounds by EPA Method 8260B |         |               |                     |               |                |         |                      |
| SW846 8260B                                             | 9083572 | NSH1908-01    | 5.85                | 5.00          | 08/17/09 09:50 | JRL     | EPA 5035             |
| SW846 8260B                                             | 9083572 | NSH1908-02    | 5.59                | 5.00          | 08/17/09 10:40 | JRL     | EPA 5035             |
| SW846 8260B                                             | 9084596 | NSH1908-02RE1 | 5.54                | 5.00          | 08/17/09 10:40 | JRL     | EPA 5035             |
| SW846 8260B                                             | 9083572 | NSH1908-03    | 4.88                | 5.00          | 08/17/09 13:55 | JRL     | EPA 5035             |
| SW846 8260B                                             | 9084596 | NSH1908-03RE1 | 4.60                | 5.00          | 08/17/09 13:55 | JRL     | EPA 5035             |
| SW846 8260B                                             | 9083572 | NSH1908-04    | 5.18                | 5.00          | 08/17/09 15:45 | JRL     | EPA 5035             |
| SW846 8260B                                             | 9084594 | NSH1908-04RE1 | 4.99                | 5.00          | 08/17/09 15:45 | JRL     | EPA 5035             |
| SW846 8260B                                             | 9085066 | NSH1908-04RE2 | 4.99                | 5.00          | 08/17/09 15:45 | JRL     | EPA 5035             |
| SW846 8260B                                             | 9083572 | NSH1908-05    | 4.64                | 5.00          | 08/18/09 10:05 | JRL     | EPA 5035             |
| SW846 8260B                                             | 9084596 | NSH1908-05RE1 | 4.30                | 5.00          | 08/18/09 10:05 | JRL     | EPA 5035             |
| SW846 8260B                                             | 9083572 | NSH1908-06    | 5.52                | 5.00          | 08/18/09 09:45 | JRL     | EPA 5035             |
| SW846 8260B                                             | 9084596 | NSH1908-06RE1 | 5.95                | 5.00          | 08/18/09 09:45 | JRL     | EPA 5035             |
| SW846 8260B                                             | 9083572 | NSH1908-07    | 4.77                | 5.00          | 08/18/09 13:45 | JRL     | EPA 5035             |
| SW846 8260B                                             | 9083572 | NSH1908-08    | 5.39                | 5.00          | 08/18/09 14:05 | JRL     | EPA 5035             |

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

Work Order: NSH1908  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/21/09 08:00

## PROJECT QUALITY CONTROL DATA

### Blank

| Analyte                                                 | Blank Value | Q | Units     | Q.C. Batch | Lab Number   | Analyzed Date/Time |
|---------------------------------------------------------|-------------|---|-----------|------------|--------------|--------------------|
| Selected Volatile Organic Compounds by EPA Method 8260B |             |   |           |            |              |                    |
| 9083572-BLK1                                            |             |   |           |            |              |                    |
| Benzene                                                 | <0.000670   | B | mg/kg wet | 9083572    | 9083572-BLK1 | 08/28/09 15:43     |
| Ethylbenzene                                            | <0.000670   |   | mg/kg wet | 9083572    | 9083572-BLK1 | 08/28/09 15:43     |
| Naphthalene                                             | <0.00170    |   | mg/kg wet | 9083572    | 9083572-BLK1 | 08/28/09 15:43     |
| Toluene                                                 | 0.000580    |   | mg/kg wet | 9083572    | 9083572-BLK1 | 08/28/09 15:43     |
| Xylenes, total                                          | <0.00130    |   | mg/kg wet | 9083572    | 9083572-BLK1 | 08/28/09 15:43     |
| Surrogate: 1,2-Dichloroethane-d4                        | 107%        |   |           | 9083572    | 9083572-BLK1 | 08/28/09 15:43     |
| Surrogate: Dibromofluoromethane                         | 99%         |   |           | 9083572    | 9083572-BLK1 | 08/28/09 15:43     |
| Surrogate: Toluene-d8                                   | 96%         |   |           | 9083572    | 9083572-BLK1 | 08/28/09 15:43     |
| Surrogate: 4-Bromofluorobenzene                         | 95%         |   |           | 9083572    | 9083572-BLK1 | 08/28/09 15:43     |
| 9084594-BLK1                                            |             |   |           |            |              |                    |
| Benzene                                                 | <0.000670   |   | mg/kg wet | 9084594    | 9084594-BLK1 | 08/29/09 15:47     |
| Ethylbenzene                                            | <0.000670   |   | mg/kg wet | 9084594    | 9084594-BLK1 | 08/29/09 15:47     |
| Naphthalene                                             | <0.00170    |   | mg/kg wet | 9084594    | 9084594-BLK1 | 08/29/09 15:47     |
| Toluene                                                 | <0.000400   |   | mg/kg wet | 9084594    | 9084594-BLK1 | 08/29/09 15:47     |
| Xylenes, total                                          | <0.00130    |   | mg/kg wet | 9084594    | 9084594-BLK1 | 08/29/09 15:47     |
| Surrogate: 1,2-Dichloroethane-d4                        | 101%        |   |           | 9084594    | 9084594-BLK1 | 08/29/09 15:47     |
| Surrogate: Dibromofluoromethane                         | 103%        |   |           | 9084594    | 9084594-BLK1 | 08/29/09 15:47     |
| Surrogate: Toluene-d8                                   | 104%        |   |           | 9084594    | 9084594-BLK1 | 08/29/09 15:47     |
| Surrogate: 4-Bromofluorobenzene                         | 104%        |   |           | 9084594    | 9084594-BLK1 | 08/29/09 15:47     |
| 9084596-BLK1                                            |             |   |           |            |              |                    |
| Benzene                                                 | <0.000670   |   | mg/kg wet | 9084596    | 9084596-BLK1 | 08/31/09 15:00     |
| Ethylbenzene                                            | <0.000670   |   | mg/kg wet | 9084596    | 9084596-BLK1 | 08/31/09 15:00     |
| Naphthalene                                             | <0.00170    |   | mg/kg wet | 9084596    | 9084596-BLK1 | 08/31/09 15:00     |
| Toluene                                                 | <0.000400   |   | mg/kg wet | 9084596    | 9084596-BLK1 | 08/31/09 15:00     |
| Xylenes, total                                          | <0.00130    |   | mg/kg wet | 9084596    | 9084596-BLK1 | 08/31/09 15:00     |
| Surrogate: 1,2-Dichloroethane-d4                        | 106%        |   |           | 9084596    | 9084596-BLK1 | 08/31/09 15:00     |
| Surrogate: Dibromofluoromethane                         | 96%         |   |           | 9084596    | 9084596-BLK1 | 08/31/09 15:00     |
| Surrogate: Toluene-d8                                   | 97%         |   |           | 9084596    | 9084596-BLK1 | 08/31/09 15:00     |
| Surrogate: 4-Bromofluorobenzene                         | 95%         |   |           | 9084596    | 9084596-BLK1 | 08/31/09 15:00     |
| 9085066-BLK1                                            |             |   |           |            |              |                    |
| Benzene                                                 | <0.000670   |   | mg/kg wet | 9085066    | 9085066-BLK1 | 08/31/09 09:09     |
| Ethylbenzene                                            | <0.000670   |   | mg/kg wet | 9085066    | 9085066-BLK1 | 08/31/09 09:09     |
| Naphthalene                                             | <0.00170    |   | mg/kg wet | 9085066    | 9085066-BLK1 | 08/31/09 09:09     |
| Toluene                                                 | <0.000400   |   | mg/kg wet | 9085066    | 9085066-BLK1 | 08/31/09 09:09     |
| Xylenes, total                                          | <0.00130    |   | mg/kg wet | 9085066    | 9085066-BLK1 | 08/31/09 09:09     |
| Surrogate: 1,2-Dichloroethane-d4                        | 109%        |   |           | 9085066    | 9085066-BLK1 | 08/31/09 09:09     |
| Surrogate: Dibromofluoromethane                         | 104%        |   |           | 9085066    | 9085066-BLK1 | 08/31/09 09:09     |
| Surrogate: Toluene-d8                                   | 100%        |   |           | 9085066    | 9085066-BLK1 | 08/31/09 09:09     |
| Surrogate: 4-Bromofluorobenzene                         | 108%        |   |           | 9085066    | 9085066-BLK1 | 08/31/09 09:09     |

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

Work Order: NSH1908  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/21/09 08:00

## PROJECT QUALITY CONTROL DATA

### Blank - Cont.

| Analyte | Blank Value | Q | Units | Q.C. Batch | Lab Number | Analyzed Date/Time |
|---------|-------------|---|-------|------------|------------|--------------------|
|---------|-------------|---|-------|------------|------------|--------------------|

#### Selected Volatile Organic Compounds by EPA Method 8260B

#### Polyaromatic Hydrocarbons by EPA 8270D

##### 9083679-BLK1

|                             |         |  |           |         |              |                |
|-----------------------------|---------|--|-----------|---------|--------------|----------------|
| Acenaphthene                | <0.0320 |  | mg/kg wet | 9083679 | 9083679-BLK1 | 08/30/09 14:47 |
| Acenaphthylene              | <0.0310 |  | mg/kg wet | 9083679 | 9083679-BLK1 | 08/30/09 14:47 |
| Anthracene                  | <0.0330 |  | mg/kg wet | 9083679 | 9083679-BLK1 | 08/30/09 14:47 |
| Benzo (a) anthracene        | <0.0380 |  | mg/kg wet | 9083679 | 9083679-BLK1 | 08/30/09 14:47 |
| Benzo (a) pyrene            | <0.0300 |  | mg/kg wet | 9083679 | 9083679-BLK1 | 08/30/09 14:47 |
| Benzo (b) fluoranthene      | <0.0300 |  | mg/kg wet | 9083679 | 9083679-BLK1 | 08/30/09 14:47 |
| Benzo (g,h,i) perylene      | <0.0300 |  | mg/kg wet | 9083679 | 9083679-BLK1 | 08/30/09 14:47 |
| Benzo (k) fluoranthene      | <0.0300 |  | mg/kg wet | 9083679 | 9083679-BLK1 | 08/30/09 14:47 |
| Chrysene                    | <0.0400 |  | mg/kg wet | 9083679 | 9083679-BLK1 | 08/30/09 14:47 |
| Dibenz (a,h) anthracene     | <0.0310 |  | mg/kg wet | 9083679 | 9083679-BLK1 | 08/30/09 14:47 |
| Fluoranthene                | <0.0340 |  | mg/kg wet | 9083679 | 9083679-BLK1 | 08/30/09 14:47 |
| Fluorene                    | <0.0360 |  | mg/kg wet | 9083679 | 9083679-BLK1 | 08/30/09 14:47 |
| Indeno (1,2,3-cd) pyrene    | <0.0310 |  | mg/kg wet | 9083679 | 9083679-BLK1 | 08/30/09 14:47 |
| Naphthalene                 | <0.0410 |  | mg/kg wet | 9083679 | 9083679-BLK1 | 08/30/09 14:47 |
| Phenanthrene                | <0.0340 |  | mg/kg wet | 9083679 | 9083679-BLK1 | 08/30/09 14:47 |
| Pyrene                      | <0.0410 |  | mg/kg wet | 9083679 | 9083679-BLK1 | 08/30/09 14:47 |
| 1-Methylnaphthalene         | <0.0320 |  | mg/kg wet | 9083679 | 9083679-BLK1 | 08/30/09 14:47 |
| 2-Methylnaphthalene         | <0.0330 |  | mg/kg wet | 9083679 | 9083679-BLK1 | 08/30/09 14:47 |
| Surrogate: Terphenyl-d14    | 95%     |  |           | 9083679 | 9083679-BLK1 | 08/30/09 14:47 |
| Surrogate: 2-Fluorobiphenyl | 78%     |  |           | 9083679 | 9083679-BLK1 | 08/30/09 14:47 |
| Surrogate: Nitrobenzene-d5  | 72%     |  |           | 9083679 | 9083679-BLK1 | 08/30/09 14:47 |



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

Work Order: NSH1908  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/21/09 08:00

## 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>9085103-DUP1</b>                 |            |           |   |       |     |       |         |                   |        |                    |
| % Dry Solids                        | 82.9       | 88.6      |   | %     | 7   | 20    | 9085103 | NSH1908-04        |        | 09/02/09 08:39     |
| <b>9085104-DUP1</b>                 |            |           |   |       |     |       |         |                   |        |                    |
| % Dry Solids                        | 95.8       | 96.2      |   | %     | 0.4 | 20    | 9085104 | NSH1879-01        |        | 09/01/09 08:53     |

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

Work Order: NSH1908  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/21/09 08:00

## 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>9083572-BS1</b>                                             |            |              |   |       |        |              |         |                    |
| Benzene                                                        | 50.0       | 52.2         |   | ug/kg | 104%   | 78 - 126     | 9083572 | 08/28/09 13:13     |
| Ethylbenzene                                                   | 50.0       | 57.5         |   | ug/kg | 115%   | 79 - 130     | 9083572 | 08/28/09 13:13     |
| Naphthalene                                                    | 50.0       | 59.0         |   | ug/kg | 118%   | 72 - 150     | 9083572 | 08/28/09 13:13     |
| Toluene                                                        | 50.0       | 54.6         |   | ug/kg | 109%   | 76 - 126     | 9083572 | 08/28/09 13:13     |
| Xylenes, total                                                 | 150        | 173          |   | ug/kg | 115%   | 80 - 130     | 9083572 | 08/28/09 13:13     |
| Surrogate: 1,2-Dichloroethane-d4                               | 50.0       | 52.6         |   |       | 105%   | 67 - 138     | 9083572 | 08/28/09 13:13     |
| Surrogate: Dibromofluoromethane                                | 50.0       | 51.7         |   |       | 103%   | 75 - 125     | 9083572 | 08/28/09 13:13     |
| Surrogate: Toluene-d8                                          | 50.0       | 50.2         |   |       | 100%   | 76 - 129     | 9083572 | 08/28/09 13:13     |
| Surrogate: 4-Bromofluorobenzene                                | 50.0       | 47.9         |   |       | 96%    | 67 - 147     | 9083572 | 08/28/09 13:13     |
| <b>9084594-BS1</b>                                             |            |              |   |       |        |              |         |                    |
| Benzene                                                        | 50.0       | 44.6         |   | ug/kg | 89%    | 78 - 126     | 9084594 | 08/29/09 14:14     |
| Ethylbenzene                                                   | 50.0       | 46.6         |   | ug/kg | 93%    | 79 - 130     | 9084594 | 08/29/09 14:14     |
| Naphthalene                                                    | 50.0       | 63.0         |   | ug/kg | 126%   | 72 - 150     | 9084594 | 08/29/09 14:14     |
| Toluene                                                        | 50.0       | 46.3         |   | ug/kg | 93%    | 76 - 126     | 9084594 | 08/29/09 14:14     |
| Xylenes, total                                                 | 150        | 143          |   | ug/kg | 96%    | 80 - 130     | 9084594 | 08/29/09 14:14     |
| Surrogate: 1,2-Dichloroethane-d4                               | 25.0       | 27.4         |   |       | 109%   | 67 - 138     | 9084594 | 08/29/09 14:14     |
| Surrogate: Dibromofluoromethane                                | 25.0       | 25.5         |   |       | 102%   | 75 - 125     | 9084594 | 08/29/09 14:14     |
| Surrogate: Toluene-d8                                          | 25.0       | 26.0         |   |       | 104%   | 76 - 129     | 9084594 | 08/29/09 14:14     |
| Surrogate: 4-Bromofluorobenzene                                | 25.0       | 24.4         |   |       | 98%    | 67 - 147     | 9084594 | 08/29/09 14:14     |
| <b>9084596-BS1</b>                                             |            |              |   |       |        |              |         |                    |
| Benzene                                                        | 50.0       | 51.1         |   | ug/kg | 102%   | 78 - 126     | 9084596 | 08/31/09 13:00     |
| Ethylbenzene                                                   | 50.0       | 51.4         |   | ug/kg | 103%   | 79 - 130     | 9084596 | 08/31/09 13:00     |
| Naphthalene                                                    | 50.0       | 53.7         |   | ug/kg | 107%   | 72 - 150     | 9084596 | 08/31/09 13:00     |
| Toluene                                                        | 50.0       | 50.0         |   | ug/kg | 100%   | 76 - 126     | 9084596 | 08/31/09 13:00     |
| Xylenes, total                                                 | 150        | 155          |   | ug/kg | 104%   | 80 - 130     | 9084596 | 08/31/09 13:00     |
| Surrogate: 1,2-Dichloroethane-d4                               | 50.0       | 52.1         |   |       | 104%   | 67 - 138     | 9084596 | 08/31/09 13:00     |
| Surrogate: Dibromofluoromethane                                | 50.0       | 50.4         |   |       | 101%   | 75 - 125     | 9084596 | 08/31/09 13:00     |
| Surrogate: Toluene-d8                                          | 50.0       | 49.7         |   |       | 99%    | 76 - 129     | 9084596 | 08/31/09 13:00     |
| Surrogate: 4-Bromofluorobenzene                                | 50.0       | 48.9         |   |       | 98%    | 67 - 147     | 9084596 | 08/31/09 13:00     |
| <b>9085066-BS1</b>                                             |            |              |   |       |        |              |         |                    |
| Benzene                                                        | 50.0       | 44.9         |   | ug/kg | 90%    | 78 - 126     | 9085066 | 08/31/09 07:31     |
| Ethylbenzene                                                   | 50.0       | 47.2         |   | ug/kg | 94%    | 79 - 130     | 9085066 | 08/31/09 07:31     |
| Naphthalene                                                    | 50.0       | 63.5         |   | ug/kg | 127%   | 72 - 150     | 9085066 | 08/31/09 07:31     |
| Toluene                                                        | 50.0       | 45.4         |   | ug/kg | 91%    | 76 - 126     | 9085066 | 08/31/09 07:31     |
| Xylenes, total                                                 | 150        | 144          |   | ug/kg | 96%    | 80 - 130     | 9085066 | 08/31/09 07:31     |
| Surrogate: 1,2-Dichloroethane-d4                               | 25.0       | 27.4         |   |       | 110%   | 67 - 138     | 9085066 | 08/31/09 07:31     |
| Surrogate: Dibromofluoromethane                                | 25.0       | 24.8         |   |       | 99%    | 75 - 125     | 9085066 | 08/31/09 07:31     |
| Surrogate: Toluene-d8                                          | 25.0       | 25.3         |   |       | 101%   | 76 - 129     | 9085066 | 08/31/09 07:31     |
| Surrogate: 4-Bromofluorobenzene                                | 25.0       | 25.4         |   |       | 102%   | 67 - 147     | 9085066 | 08/31/09 07:31     |

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

Work Order: NSH1908  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/21/09 08:00

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

| 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>Polyaromatic Hydrocarbons by EPA 8270D</b>                  |            |              |   |           |        |              |         |                    |
| <b>9083679-BS1</b>                                             |            |              |   |           |        |              |         |                    |
| Acenaphthene                                                   | 1.67       | 1.34         |   | mg/kg wet | 80%    | 49 - 120     | 9083679 | 08/30/09 15:10     |
| Acenaphthylene                                                 | 1.67       | 1.39         |   | mg/kg wet | 83%    | 52 - 120     | 9083679 | 08/30/09 15:10     |
| Anthracene                                                     | 1.67       | 1.59         |   | mg/kg wet | 95%    | 58 - 120     | 9083679 | 08/30/09 15:10     |
| Benzo (a) anthracene                                           | 1.67       | 1.32         |   | mg/kg wet | 79%    | 57 - 120     | 9083679 | 08/30/09 15:10     |
| Benzo (a) pyrene                                               | 1.67       | 1.45         |   | mg/kg wet | 87%    | 55 - 120     | 9083679 | 08/30/09 15:10     |
| Benzo (b) fluoranthene                                         | 1.67       | 1.35         |   | mg/kg wet | 81%    | 51 - 123     | 9083679 | 08/30/09 15:10     |
| Benzo (g,h,i) perylene                                         | 1.67       | 1.55         |   | mg/kg wet | 93%    | 49 - 121     | 9083679 | 08/30/09 15:10     |
| Benzo (k) fluoranthene                                         | 1.67       | 1.40         |   | mg/kg wet | 84%    | 42 - 129     | 9083679 | 08/30/09 15:10     |
| Chrysene                                                       | 1.67       | 1.37         |   | mg/kg wet | 82%    | 55 - 120     | 9083679 | 08/30/09 15:10     |
| Dibenz (a,h) anthracene                                        | 1.67       | 1.54         |   | mg/kg wet | 92%    | 50 - 123     | 9083679 | 08/30/09 15:10     |
| Fluoranthene                                                   | 1.67       | 1.37         |   | mg/kg wet | 82%    | 58 - 120     | 9083679 | 08/30/09 15:10     |
| Fluorene                                                       | 1.67       | 1.35         |   | mg/kg wet | 81%    | 54 - 120     | 9083679 | 08/30/09 15:10     |
| Indeno (1,2,3-cd) pyrene                                       | 1.67       | 1.53         |   | mg/kg wet | 92%    | 50 - 122     | 9083679 | 08/30/09 15:10     |
| Naphthalene                                                    | 1.67       | 1.08         |   | mg/kg wet | 65%    | 28 - 120     | 9083679 | 08/30/09 15:10     |
| Phenanthrene                                                   | 1.67       | 1.43         |   | mg/kg wet | 86%    | 56 - 120     | 9083679 | 08/30/09 15:10     |
| Pyrene                                                         | 1.67       | 1.42         |   | mg/kg wet | 85%    | 56 - 120     | 9083679 | 08/30/09 15:10     |
| 1-Methylnaphthalene                                            | 1.67       | 0.969        |   | mg/kg wet | 58%    | 36 - 120     | 9083679 | 08/30/09 15:10     |
| 2-Methylnaphthalene                                            | 1.67       | 1.02         |   | mg/kg wet | 61%    | 36 - 120     | 9083679 | 08/30/09 15:10     |
| Surrogate: Terphenyl-d14                                       | 1.67       | 1.38         |   |           | 83%    | 18 - 120     | 9083679 | 08/30/09 15:10     |
| Surrogate: 2-Fluorobiphenyl                                    | 1.67       | 1.26         |   |           | 76%    | 14 - 120     | 9083679 | 08/30/09 15:10     |
| Surrogate: Nitrobenzene-d5                                     | 1.67       | 1.00         |   |           | 60%    | 17 - 120     | 9083679 | 08/30/09 15:10     |

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

Work Order: NSH1908  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/21/09 08:00

## 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>9084594-BSD1</b>                                            |            |           |   |       |            |        |              |     |       |         |                   |                    |
| Benzene                                                        |            | 47.2      |   | ug/kg | 50.0       | 94%    | 78 - 126     | 6   | 50    | 9084594 |                   | 08/29/09 14:45     |
| Ethylbenzene                                                   |            | 48.4      |   | ug/kg | 50.0       | 97%    | 79 - 130     | 4   | 50    | 9084594 |                   | 08/29/09 14:45     |
| Naphthalene                                                    |            | 67.6      |   | ug/kg | 50.0       | 135%   | 72 - 150     | 7   | 50    | 9084594 |                   | 08/29/09 14:45     |
| Toluene                                                        |            | 47.9      |   | ug/kg | 50.0       | 96%    | 76 - 126     | 3   | 50    | 9084594 |                   | 08/29/09 14:45     |
| Xylenes, total                                                 |            | 150       |   | ug/kg | 150        | 100%   | 80 - 130     | 4   | 50    | 9084594 |                   | 08/29/09 14:45     |
| Surrogate: 1,2-Dichloroethane-d4                               |            | 26.8      |   | ug/kg | 25.0       | 107%   | 67 - 138     |     |       | 9084594 |                   | 08/29/09 14:45     |
| Surrogate: Dibromofluoromethane                                |            | 24.9      |   | ug/kg | 25.0       | 100%   | 75 - 125     |     |       | 9084594 |                   | 08/29/09 14:45     |
| Surrogate: Toluene-d8                                          |            | 25.5      |   | ug/kg | 25.0       | 102%   | 76 - 129     |     |       | 9084594 |                   | 08/29/09 14:45     |
| Surrogate: 4-Bromofluorobenzene                                |            | 25.4      |   | ug/kg | 25.0       | 102%   | 67 - 147     |     |       | 9084594 |                   | 08/29/09 14:45     |
| <b>9084596-BSD1</b>                                            |            |           |   |       |            |        |              |     |       |         |                   |                    |
| Benzene                                                        |            | 49.4      |   | ug/kg | 50.0       | 99%    | 78 - 126     | 3   | 50    | 9084596 |                   | 08/31/09 13:30     |
| Ethylbenzene                                                   |            | 52.2      |   | ug/kg | 50.0       | 104%   | 79 - 130     | 2   | 50    | 9084596 |                   | 08/31/09 13:30     |
| Naphthalene                                                    |            | 54.0      |   | ug/kg | 50.0       | 108%   | 72 - 150     | 0.5 | 50    | 9084596 |                   | 08/31/09 13:30     |
| Toluene                                                        |            | 51.1      |   | ug/kg | 50.0       | 102%   | 76 - 126     | 2   | 50    | 9084596 |                   | 08/31/09 13:30     |
| Xylenes, total                                                 |            | 157       |   | ug/kg | 150        | 105%   | 80 - 130     | 1   | 50    | 9084596 |                   | 08/31/09 13:30     |
| Surrogate: 1,2-Dichloroethane-d4                               |            | 52.2      |   | ug/kg | 50.0       | 104%   | 67 - 138     |     |       | 9084596 |                   | 08/31/09 13:30     |
| Surrogate: Dibromofluoromethane                                |            | 50.5      |   | ug/kg | 50.0       | 101%   | 75 - 125     |     |       | 9084596 |                   | 08/31/09 13:30     |
| Surrogate: Toluene-d8                                          |            | 50.0      |   | ug/kg | 50.0       | 100%   | 76 - 129     |     |       | 9084596 |                   | 08/31/09 13:30     |
| Surrogate: 4-Bromofluorobenzene                                |            | 47.9      |   | ug/kg | 50.0       | 96%    | 67 - 147     |     |       | 9084596 |                   | 08/31/09 13:30     |
| <b>9085066-BSD1</b>                                            |            |           |   |       |            |        |              |     |       |         |                   |                    |
| Benzene                                                        |            | 46.5      |   | ug/kg | 50.0       | 93%    | 78 - 126     | 4   | 50    | 9085066 |                   | 08/31/09 08:01     |
| Ethylbenzene                                                   |            | 48.6      |   | ug/kg | 50.0       | 97%    | 79 - 130     | 3   | 50    | 9085066 |                   | 08/31/09 08:01     |
| Naphthalene                                                    |            | 69.6      |   | ug/kg | 50.0       | 139%   | 72 - 150     | 9   | 50    | 9085066 |                   | 08/31/09 08:01     |
| Toluene                                                        |            | 47.1      |   | ug/kg | 50.0       | 94%    | 76 - 126     | 4   | 50    | 9085066 |                   | 08/31/09 08:01     |
| Xylenes, total                                                 |            | 148       |   | ug/kg | 150        | 99%    | 80 - 130     | 3   | 50    | 9085066 |                   | 08/31/09 08:01     |
| Surrogate: 1,2-Dichloroethane-d4                               |            | 27.5      |   | ug/kg | 25.0       | 110%   | 67 - 138     |     |       | 9085066 |                   | 08/31/09 08:01     |
| Surrogate: Dibromofluoromethane                                |            | 25.4      |   | ug/kg | 25.0       | 101%   | 75 - 125     |     |       | 9085066 |                   | 08/31/09 08:01     |
| Surrogate: Toluene-d8                                          |            | 25.7      |   | ug/kg | 25.0       | 103%   | 76 - 129     |     |       | 9085066 |                   | 08/31/09 08:01     |
| Surrogate: 4-Bromofluorobenzene                                |            | 26.3      |   | ug/kg | 25.0       | 105%   | 67 - 147     |     |       | 9085066 |                   | 08/31/09 08:01     |

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

Work Order: NSH1908  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/21/09 08:00

## 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>9083572-MS1</b>                                             |            |        |   |           |            |        |              |         |               |                    |
| Benzene                                                        | ND         | 2.28   |   | mg/kg wet | 2.50       | 91%    | 42 - 141     | 9083572 | NSH1890-02RE  | 08/28/09 22:44     |
|                                                                |            |        |   |           |            |        |              |         | I             |                    |
| Ethylbenzene                                                   | 0.0739     | 2.56   |   | mg/kg wet | 2.50       | 99%    | 21 - 165     | 9083572 | NSH1890-02RE  | 08/28/09 22:44     |
|                                                                |            |        |   |           |            |        |              |         | I             |                    |
| Naphthalene                                                    | 0.732      | 2.65   |   | mg/kg wet | 2.50       | 77%    | 10 - 160     | 9083572 | NSH1890-02RE  | 08/28/09 22:44     |
|                                                                |            |        |   |           |            |        |              |         | I             |                    |
| Toluene                                                        | 0.0728     | 2.34   |   | mg/kg wet | 2.50       | 91%    | 45 - 145     | 9083572 | NSH1890-02RE  | 08/28/09 22:44     |
|                                                                |            |        |   |           |            |        |              |         | I             |                    |
| Xylenes, total                                                 | 0.274      | 7.65   |   | mg/kg wet | 7.50       | 98%    | 31 - 159     | 9083572 | NSH1890-02RE  | 08/28/09 22:44     |
|                                                                |            |        |   |           |            |        |              |         | I             |                    |
| Surrogate: 1,2-Dichloroethane-d4                               |            | 50.6   |   | ug/kg     | 50.0       | 101%   | 67 - 138     | 9083572 | NSH1890-02RE  | 08/28/09 22:44     |
|                                                                |            |        |   |           |            |        |              |         | I             |                    |
| Surrogate: Dibromofluoromethane                                |            | 48.4   |   | ug/kg     | 50.0       | 97%    | 75 - 125     | 9083572 | NSH1890-02RE  | 08/28/09 22:44     |
|                                                                |            |        |   |           |            |        |              |         | I             |                    |
| Surrogate: Toluene-d8                                          |            | 48.7   |   | ug/kg     | 50.0       | 97%    | 76 - 129     | 9083572 | NSH1890-02RE  | 08/28/09 22:44     |
|                                                                |            |        |   |           |            |        |              |         | I             |                    |
| Surrogate: 4-Bromofluorobenzene                                |            | 51.5   |   | ug/kg     | 50.0       | 103%   | 67 - 147     | 9083572 | NSH1890-02RE  | 08/28/09 22:44     |
|                                                                |            |        |   |           |            |        |              |         | I             |                    |
| <b>9084594-MS1</b>                                             |            |        |   |           |            |        |              |         |               |                    |
| Benzene                                                        | ND         | 2.30   |   | mg/kg wet | 5.00       | 46%    | 42 - 141     | 9084594 | NSH2207-01RE  | 08/30/09 00:31     |
|                                                                |            |        |   |           |            |        |              |         | I             |                    |
| Ethylbenzene                                                   | ND         | 2.56   |   | mg/kg wet | 5.00       | 51%    | 21 - 165     | 9084594 | NSH2207-01RE  | 08/30/09 00:31     |
|                                                                |            |        |   |           |            |        |              |         | I             |                    |
| Naphthalene                                                    | 0.117      | 2.34   |   | mg/kg wet | 5.00       | 45%    | 10 - 160     | 9084594 | NSH2207-01RE  | 08/30/09 00:31     |
|                                                                |            |        |   |           |            |        |              |         | I             |                    |
| Toluene                                                        | ND         | 2.46   |   | mg/kg wet | 5.00       | 49%    | 45 - 145     | 9084594 | NSH2207-01RE  | 08/30/09 00:31     |
|                                                                |            |        |   |           |            |        |              |         | I             |                    |
| Xylenes, total                                                 | 0.0622     | 7.94   |   | mg/kg wet | 15.0       | 53%    | 31 - 159     | 9084594 | NSH2207-01RE  | 08/30/09 00:31     |
|                                                                |            |        |   |           |            |        |              |         | I             |                    |
| Surrogate: 1,2-Dichloroethane-d4                               |            | 24.6   |   | ug/kg     | 25.0       | 98%    | 67 - 138     | 9084594 | NSH2207-01RE  | 08/30/09 00:31     |
|                                                                |            |        |   |           |            |        |              |         | I             |                    |
| Surrogate: Dibromofluoromethane                                |            | 23.9   |   | ug/kg     | 25.0       | 96%    | 75 - 125     | 9084594 | NSH2207-01RE  | 08/30/09 00:31     |
|                                                                |            |        |   |           |            |        |              |         | I             |                    |
| Surrogate: Toluene-d8                                          |            | 26.0   |   | ug/kg     | 25.0       | 104%   | 76 - 129     | 9084594 | NSH2207-01RE  | 08/30/09 00:31     |
|                                                                |            |        |   |           |            |        |              |         | I             |                    |
| Surrogate: 4-Bromofluorobenzene                                |            | 25.0   |   | ug/kg     | 25.0       | 100%   | 67 - 147     | 9084594 | NSH2207-01RE  | 08/30/09 00:31     |
|                                                                |            |        |   |           |            |        |              |         | I             |                    |
| <b>9084596-MS1</b>                                             |            |        |   |           |            |        |              |         |               |                    |
| Benzene                                                        | ND         | 2.48   |   | mg/kg wet | 2.50       | 99%    | 42 - 141     | 9084596 | NSH1986-01RE  | 08/31/09 23:34     |
|                                                                |            |        |   |           |            |        |              |         | I             |                    |
| Ethylbenzene                                                   | 0.920      | 3.38   |   | mg/kg wet | 2.50       | 98%    | 21 - 165     | 9084596 | NSH1986-01RE  | 08/31/09 23:34     |
|                                                                |            |        |   |           |            |        |              |         | I             |                    |
| Naphthalene                                                    | 1.85       | 4.24   |   | mg/kg wet | 2.50       | 96%    | 10 - 160     | 9084596 | NSH1986-01RE  | 08/31/09 23:34     |
|                                                                |            |        |   |           |            |        |              |         | I             |                    |
| Toluene                                                        | 0.0311     | 2.34   |   | mg/kg wet | 2.50       | 92%    | 45 - 145     | 9084596 | NSH1986-01RE  | 08/31/09 23:34     |
|                                                                |            |        |   |           |            |        |              |         | I             |                    |

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

Work Order: NSH1908  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/21/09 08:00

**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>9084596-MS1</b>                                             |            |        |   |           |            |        |              |         |               |                    |
| Xylenes, total                                                 | 2.31       | 9.68   |   | mg/kg wet | 7.50       | 98%    | 31 - 159     | 9084596 | NSH1986-01RE  | 08/31/09 23:34     |
| Surrogate: 1,2-Dichloroethane-d4                               |            | 49.6   |   | ug/kg     | 50.0       | 99%    | 67 - 138     | 9084596 | NSH1986-01RE  | 08/31/09 23:34     |
| Surrogate: Dibromofluoromethane                                |            | 49.2   |   | ug/kg     | 50.0       | 98%    | 75 - 125     | 9084596 | NSH1986-01RE  | 08/31/09 23:34     |
| Surrogate: Toluene-d8                                          |            | 47.3   |   | ug/kg     | 50.0       | 95%    | 76 - 129     | 9084596 | NSH1986-01RE  | 08/31/09 23:34     |
| Surrogate: 4-Bromofluorobenzene                                |            | 48.0   |   | ug/kg     | 50.0       | 96%    | 67 - 147     | 9084596 | NSH1986-01RE  | 08/31/09 23:34     |
| <b>Polyaromatic Hydrocarbons by EPA 8270D</b>                  |            |        |   |           |            |        |              |         |               |                    |
| <b>9083679-MS1</b>                                             |            |        |   |           |            |        |              |         |               |                    |
| Acenaphthene                                                   | ND         | 1.27   |   | mg/kg dry | 1.74       | 73%    | 42 - 120     | 9083679 | NSH1908-05    | 08/30/09 15:32     |
| Acenaphthylene                                                 | ND         | 1.31   |   | mg/kg dry | 1.74       | 75%    | 32 - 120     | 9083679 | NSH1908-05    | 08/30/09 15:32     |
| Anthracene                                                     | ND         | 1.45   |   | mg/kg dry | 1.74       | 83%    | 10 - 200     | 9083679 | NSH1908-05    | 08/30/09 15:32     |
| Benzo (a) anthracene                                           | ND         | 1.21   |   | mg/kg dry | 1.74       | 70%    | 41 - 120     | 9083679 | NSH1908-05    | 08/30/09 15:32     |
| Benzo (a) pyrene                                               | ND         | 1.32   |   | mg/kg dry | 1.74       | 76%    | 33 - 121     | 9083679 | NSH1908-05    | 08/30/09 15:32     |
| Benzo (b) fluoranthene                                         | ND         | 1.32   |   | mg/kg dry | 1.74       | 76%    | 26 - 137     | 9083679 | NSH1908-05    | 08/30/09 15:32     |
| Benzo (g,h,i) perylene                                         | ND         | 1.43   |   | mg/kg dry | 1.74       | 82%    | 21 - 124     | 9083679 | NSH1908-05    | 08/30/09 15:32     |
| Benzo (k) fluoranthene                                         | ND         | 1.24   |   | mg/kg dry | 1.74       | 71%    | 14 - 140     | 9083679 | NSH1908-05    | 08/30/09 15:32     |
| Chrysene                                                       | ND         | 1.26   |   | mg/kg dry | 1.74       | 73%    | 28 - 123     | 9083679 | NSH1908-05    | 08/30/09 15:32     |
| Dibenz (a,h) anthracene                                        | ND         | 1.42   |   | mg/kg dry | 1.74       | 82%    | 25 - 127     | 9083679 | NSH1908-05    | 08/30/09 15:32     |
| Fluoranthene                                                   | ND         | 1.25   |   | mg/kg dry | 1.74       | 72%    | 38 - 120     | 9083679 | NSH1908-05    | 08/30/09 15:32     |
| Fluorene                                                       | ND         | 1.28   |   | mg/kg dry | 1.74       | 73%    | 41 - 120     | 9083679 | NSH1908-05    | 08/30/09 15:32     |
| Indeno (1,2,3-cd) pyrene                                       | ND         | 1.41   |   | mg/kg dry | 1.74       | 81%    | 25 - 123     | 9083679 | NSH1908-05    | 08/30/09 15:32     |
| Naphthalene                                                    | ND         | 1.07   |   | mg/kg dry | 1.74       | 61%    | 25 - 120     | 9083679 | NSH1908-05    | 08/30/09 15:32     |
| Phenanthrene                                                   | ND         | 1.31   |   | mg/kg dry | 1.74       | 76%    | 37 - 120     | 9083679 | NSH1908-05    | 08/30/09 15:32     |
| Pyrene                                                         | ND         | 1.31   |   | mg/kg dry | 1.74       | 75%    | 29 - 125     | 9083679 | NSH1908-05    | 08/30/09 15:32     |
| 1-Methylnaphthalene                                            | ND         | 0.951  |   | mg/kg dry | 1.74       | 55%    | 19 - 120     | 9083679 | NSH1908-05    | 08/30/09 15:32     |
| 2-Methylnaphthalene                                            | ND         | 0.989  |   | mg/kg dry | 1.74       | 57%    | 11 - 120     | 9083679 | NSH1908-05    | 08/30/09 15:32     |
| Surrogate: Terphenyl-d14                                       |            | 1.25   |   | mg/kg dry | 1.74       | 72%    | 18 - 120     | 9083679 | NSH1908-05    | 08/30/09 15:32     |
| Surrogate: 2-Fluorobiphenyl                                    |            | 1.24   |   | mg/kg dry | 1.74       | 71%    | 14 - 120     | 9083679 | NSH1908-05    | 08/30/09 15:32     |
| Surrogate: Nitrobenzene-d5                                     |            | 1.04   |   | mg/kg dry | 1.74       | 60%    | 17 - 120     | 9083679 | NSH1908-05    | 08/30/09 15:32     |



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

Work Order: NSH1908  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/21/09 08:00

## 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>9083572-MSD1</b>                                            |            |           |   |           |            |        |              |       |       |         |                   |                    |
| Benzene                                                        | ND         | 2.03      |   | mg/kg wet | 2.50       | 81%    | 42 - 141     | 11    | 50    | 9083572 | NSH1890-02R<br>E1 | 08/28/09 23:14     |
| Ethylbenzene                                                   | 0.0739     | 2.21      |   | mg/kg wet | 2.50       | 86%    | 21 - 165     | 14    | 50    | 9083572 | NSH1890-02R<br>E1 | 08/28/09 23:14     |
| Naphthalene                                                    | 0.732      | 2.20      |   | mg/kg wet | 2.50       | 59%    | 10 - 160     | 18    | 50    | 9083572 | NSH1890-02R<br>E1 | 08/28/09 23:14     |
| Toluene                                                        | 0.0728     | 2.02      |   | mg/kg wet | 2.50       | 78%    | 45 - 145     | 14    | 50    | 9083572 | NSH1890-02R<br>E1 | 08/28/09 23:14     |
| Xylenes, total                                                 | 0.274      | 6.53      |   | mg/kg wet | 7.50       | 83%    | 31 - 159     | 16    | 50    | 9083572 | NSH1890-02R<br>E1 | 08/28/09 23:14     |
| Surrogate: 1,2-Dichloroethane-d4                               |            | 49.7      |   | ug/kg     | 50.0       | 99%    | 67 - 138     |       |       | 9083572 | NSH1890-02R<br>E1 | 08/28/09 23:14     |
| Surrogate: Dibromofluoromethane                                |            | 46.5      |   | ug/kg     | 50.0       | 93%    | 75 - 125     |       |       | 9083572 | NSH1890-02R<br>E1 | 08/28/09 23:14     |
| Surrogate: Toluene-d8                                          |            | 48.7      |   | ug/kg     | 50.0       | 97%    | 76 - 129     |       |       | 9083572 | NSH1890-02R<br>E1 | 08/28/09 23:14     |
| Surrogate: 4-Bromofluorobenzene                                |            | 52.5      |   | ug/kg     | 50.0       | 105%   | 67 - 147     |       |       | 9083572 | NSH1890-02R<br>E1 | 08/28/09 23:14     |
| <b>9084594-MSD1</b>                                            |            |           |   |           |            |        |              |       |       |         |                   |                    |
| Benzene                                                        | ND         | 2.40      |   | mg/kg wet | 5.00       | 48%    | 42 - 141     | 4     | 50    | 9084594 | NSH2207-01R<br>E1 | 08/30/09 01:02     |
| Ethylbenzene                                                   | ND         | 2.62      |   | mg/kg wet | 5.00       | 52%    | 21 - 165     | 2     | 50    | 9084594 | NSH2207-01R<br>E1 | 08/30/09 01:02     |
| Naphthalene                                                    | 0.117      | 2.44      |   | mg/kg wet | 5.00       | 46%    | 10 - 160     | 4     | 50    | 9084594 | NSH2207-01R<br>E1 | 08/30/09 01:02     |
| Toluene                                                        | ND         | 2.53      |   | mg/kg wet | 5.00       | 51%    | 45 - 145     | 3     | 50    | 9084594 | NSH2207-01R<br>E1 | 08/30/09 01:02     |
| Xylenes, total                                                 | 0.0622     | 8.04      |   | mg/kg wet | 15.0       | 53%    | 31 - 159     | 1     | 50    | 9084594 | NSH2207-01R<br>E1 | 08/30/09 01:02     |
| Surrogate: 1,2-Dichloroethane-d4                               |            | 24.7      |   | ug/kg     | 25.0       | 99%    | 67 - 138     |       |       | 9084594 | NSH2207-01R<br>E1 | 08/30/09 01:02     |
| Surrogate: Dibromofluoromethane                                |            | 24.2      |   | ug/kg     | 25.0       | 97%    | 75 - 125     |       |       | 9084594 | NSH2207-01R<br>E1 | 08/30/09 01:02     |
| Surrogate: Toluene-d8                                          |            | 25.9      |   | ug/kg     | 25.0       | 103%   | 76 - 129     |       |       | 9084594 | NSH2207-01R<br>E1 | 08/30/09 01:02     |
| Surrogate: 4-Bromofluorobenzene                                |            | 25.0      |   | ug/kg     | 25.0       | 100%   | 67 - 147     |       |       | 9084594 | NSH2207-01R<br>E1 | 08/30/09 01:02     |
| <b>9084596-MSD1</b>                                            |            |           |   |           |            |        |              |       |       |         |                   |                    |
| Benzene                                                        | ND         | 2.51      |   | mg/kg wet | 2.50       | 100%   | 42 - 141     | 1     | 50    | 9084596 | NSH1986-01R<br>E1 | 09/01/09 00:04     |
| Ethylbenzene                                                   | 0.920      | 3.38      |   | mg/kg wet | 2.50       | 98%    | 21 - 165     | 0.09  | 50    | 9084596 | NSH1986-01R<br>E1 | 09/01/09 00:04     |
| Toluene                                                        | 0.0311     | 2.33      |   | mg/kg wet | 2.50       | 92%    | 45 - 145     | 0.4   | 50    | 9084596 | NSH1986-01R<br>E1 | 09/01/09 00:04     |
| Xylenes, total                                                 | 2.31       | 9.68      |   | mg/kg wet | 7.50       | 98%    | 31 - 159     | 0.005 | 50    | 9084596 | NSH1986-01R<br>E1 | 09/01/09 00:04     |
| Surrogate: 1,2-Dichloroethane-d4                               |            | 48.2      |   | ug/kg     | 50.0       | 96%    | 67 - 138     |       |       | 9084596 | NSH1986-01R<br>E1 | 09/01/09 00:04     |

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

Work Order: NSH1908  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/21/09 08:00

## 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>9084596-MSD1</b>                                            |            |           |   |           |            |        |              |     |       |         |                   |                    |
| Surrogate: Dibromofluoromethane                                |            | 48.9      |   | ug/kg     | 50.0       | 98%    | 75 - 125     |     |       | 9084596 | NSH1986-01R<br>EI | 09/01/09 00:04     |
| Surrogate: Toluene-d8                                          |            | 46.6      |   | ug/kg     | 50.0       | 93%    | 76 - 129     |     |       | 9084596 | NSH1986-01R<br>EI | 09/01/09 00:04     |
| Surrogate: 4-Bromofluorobenzene                                |            | 47.9      |   | ug/kg     | 50.0       | 96%    | 67 - 147     |     |       | 9084596 | NSH1986-01R<br>EI | 09/01/09 00:04     |
| <b>Polyaromatic Hydrocarbons by EPA 8270D</b>                  |            |           |   |           |            |        |              |     |       |         |                   |                    |
| <b>9083679-MSD1</b>                                            |            |           |   |           |            |        |              |     |       |         |                   |                    |
| Acenaphthene                                                   | ND         | 1.37      |   | mg/kg dry | 1.73       | 79%    | 42 - 120     | 8   | 40    | 9083679 | NSH1908-05        | 08/30/09 15:55     |
| Acenaphthylene                                                 | ND         | 1.40      |   | mg/kg dry | 1.73       | 81%    | 32 - 120     | 7   | 30    | 9083679 | NSH1908-05        | 08/30/09 15:55     |
| Anthracene                                                     | ND         | 1.59      |   | mg/kg dry | 1.73       | 92%    | 10 - 200     | 9   | 50    | 9083679 | NSH1908-05        | 08/30/09 15:55     |
| Benzo (a) anthracene                                           | ND         | 1.33      |   | mg/kg dry | 1.73       | 77%    | 41 - 120     | 9   | 30    | 9083679 | NSH1908-05        | 08/30/09 15:55     |
| Benzo (a) pyrene                                               | ND         | 1.43      |   | mg/kg dry | 1.73       | 82%    | 33 - 121     | 8   | 33    | 9083679 | NSH1908-05        | 08/30/09 15:55     |
| Benzo (b) fluoranthene                                         | ND         | 1.43      |   | mg/kg dry | 1.73       | 82%    | 26 - 137     | 7   | 42    | 9083679 | NSH1908-05        | 08/30/09 15:55     |
| Benzo (g,h,i) perylene                                         | ND         | 1.54      |   | mg/kg dry | 1.73       | 89%    | 21 - 124     | 8   | 32    | 9083679 | NSH1908-05        | 08/30/09 15:55     |
| Benzo (k) fluoranthene                                         | ND         | 1.38      |   | mg/kg dry | 1.73       | 80%    | 14 - 140     | 10  | 39    | 9083679 | NSH1908-05        | 08/30/09 15:55     |
| Chrysene                                                       | ND         | 1.36      |   | mg/kg dry | 1.73       | 79%    | 28 - 123     | 8   | 34    | 9083679 | NSH1908-05        | 08/30/09 15:55     |
| Dibenz (a,h) anthracene                                        | ND         | 1.56      |   | mg/kg dry | 1.73       | 90%    | 25 - 127     | 9   | 31    | 9083679 | NSH1908-05        | 08/30/09 15:55     |
| Fluoranthene                                                   | ND         | 1.38      |   | mg/kg dry | 1.73       | 80%    | 38 - 120     | 10  | 35    | 9083679 | NSH1908-05        | 08/30/09 15:55     |
| Fluorene                                                       | ND         | 1.38      |   | mg/kg dry | 1.73       | 80%    | 41 - 120     | 8   | 37    | 9083679 | NSH1908-05        | 08/30/09 15:55     |
| Indeno (1,2,3-cd) pyrene                                       | ND         | 1.54      |   | mg/kg dry | 1.73       | 89%    | 25 - 123     | 9   | 32    | 9083679 | NSH1908-05        | 08/30/09 15:55     |
| Naphthalene                                                    | ND         | 1.07      |   | mg/kg dry | 1.73       | 62%    | 25 - 120     | 0.5 | 42    | 9083679 | NSH1908-05        | 08/30/09 15:55     |
| Phenanthrene                                                   | ND         | 1.44      |   | mg/kg dry | 1.73       | 83%    | 37 - 120     | 10  | 32    | 9083679 | NSH1908-05        | 08/30/09 15:55     |
| Pyrene                                                         | ND         | 1.42      |   | mg/kg dry | 1.73       | 82%    | 29 - 125     | 8   | 40    | 9083679 | NSH1908-05        | 08/30/09 15:55     |
| 1-Methylnaphthalene                                            | ND         | 0.994     |   | mg/kg dry | 1.73       | 57%    | 19 - 120     | 4   | 45    | 9083679 | NSH1908-05        | 08/30/09 15:55     |
| 2-Methylnaphthalene                                            | ND         | 1.03      |   | mg/kg dry | 1.73       | 59%    | 11 - 120     | 4   | 50    | 9083679 | NSH1908-05        | 08/30/09 15:55     |
| Surrogate: Terphenyl-d14                                       |            | 1.37      |   | mg/kg dry | 1.73       | 79%    | 18 - 120     |     |       | 9083679 | NSH1908-05        | 08/30/09 15:55     |
| Surrogate: 2-Fluorobiphenyl                                    |            | 1.35      |   | mg/kg dry | 1.73       | 78%    | 14 - 120     |     |       | 9083679 | NSH1908-05        | 08/30/09 15:55     |
| Surrogate: Nitrobenzene-d5                                     |            | 1.10      |   | mg/kg dry | 1.73       | 64%    | 17 - 120     |     |       | 9083679 | NSH1908-05        | 08/30/09 15:55     |



THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

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

Work Order: NSH1908  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/21/09 08:00

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   |      |       |                |



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Attn Tom McElwee

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Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 08/21/09 08:00

#### DATA QUALIFIERS AND DEFINITIONS

**B** Analyte was detected in the associated Method Blank.  
**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



ATTACHMENT A





# NON-HAZARDOUS MANIFEST

CWM

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

| NON-HAZARDOUS MANIFEST                                                                                                                                                                                                                                                                                                           |  | 1. Generator's US EPA ID No. |  | Manifest Document No.                          |  | 2. Page 1 of 1                                |  |                                    |  |                   |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------|--|------------------------------------------------|--|-----------------------------------------------|--|------------------------------------|--|-------------------|--|
| 3. Generator's Name and Mailing Address<br><b>MCAS, Beaufort<br/>Laurel Bay Housing<br/>Beaufort SC 29904</b>                                                                                                                                                                                                                    |  |                              |  | A. Manifest Number<br><b>WMNA 10885474</b>     |  |                                               |  |                                    |  |                   |  |
| 4. Generator's Phone<br><b>843 228-8460</b>                                                                                                                                                                                                                                                                                      |  |                              |  | B. State Generator's ID                        |  |                                               |  |                                    |  |                   |  |
| 5. Transporter 1 Company Name<br><b>EEG, Inc.</b>                                                                                                                                                                                                                                                                                |  | 6. US EPA ID Number          |  | C. State Transporter's ID                      |  | D. Transporter's Phone<br><b>843 879-0411</b> |  |                                    |  |                   |  |
| 7. Transporter 2 Company Name                                                                                                                                                                                                                                                                                                    |  | 8. US EPA ID Number          |  | E. State Transporter's ID                      |  | F. Transporter's Phone                        |  |                                    |  |                   |  |
| 9. Designated Facility Name and Site Address<br><b>HICKORY HILL LANDFILL<br/>ROUTE 1, BOX 121<br/>RIDGELAND SC 29936</b>                                                                                                                                                                                                         |  | 10. US EPA ID Number         |  | G. State Facility's ID                         |  | H. Facility's Phone<br><b>843 987-4643</b>    |  |                                    |  |                   |  |
| 11. Description of Waste Materials                                                                                                                                                                                                                                                                                               |  |                              |  | 12. Containers                                 |  | 13. Total Quantity                            |  | 14. Unit Wt./Vol                   |  | I. Misc. Comments |  |
| a. Heating Oil Tank filled with Sand                                                                                                                                                                                                                                                                                             |  |                              |  | No. Type                                       |  | 8.53                                          |  | TN                                 |  |                   |  |
| WM Profile # 1026558C                                                                                                                                                                                                                                                                                                            |  |                              |  | 0 0 1                                          |  |                                               |  |                                    |  |                   |  |
| b. WM Profile #                                                                                                                                                                                                                                                                                                                  |  |                              |  |                                                |  |                                               |  |                                    |  |                   |  |
| c. WM Profile #                                                                                                                                                                                                                                                                                                                  |  |                              |  |                                                |  |                                               |  |                                    |  |                   |  |
| WM Profile #                                                                                                                                                                                                                                                                                                                     |  |                              |  |                                                |  |                                               |  |                                    |  |                   |  |
| J. Additional Descriptions for Materials Listed Above                                                                                                                                                                                                                                                                            |  |                              |  | K. Disposal Location                           |  |                                               |  |                                    |  |                   |  |
| Landfill _____ Solidification _____                                                                                                                                                                                                                                                                                              |  |                              |  | Cell _____ Level _____                         |  |                                               |  |                                    |  |                   |  |
| Bio Remediation _____                                                                                                                                                                                                                                                                                                            |  |                              |  | Grid _____                                     |  |                                               |  |                                    |  |                   |  |
| 15. Special Handling Instructions and Additional Information<br><b>Gen UST's from<br/>✓1473 CARDINAL<br/>✓1474 CARDINAL<br/>✓1477 CARDINAL<br/>✓1478 CARDINAL<br/>✓1485 CARDINAL</b>                                                                                                                                             |  |                              |  | EMERGENCY CONTACT:                             |  |                                               |  |                                    |  |                   |  |
| 16. GENERATOR'S CERTIFICATION:<br>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<br><b>W.G. Baldwin, Jr.</b>                                                                                                                                                                                                                                                                                   |  |                              |  | Signature "On behalf of"<br><i>[Signature]</i> |  |                                               |  | Month Day Year<br><b>08/26/09</b>  |  |                   |  |
| 17. Transporter 1 Acknowledgement of Receipt of Materials                                                                                                                                                                                                                                                                        |  |                              |  |                                                |  |                                               |  |                                    |  |                   |  |
| Printed/Typed Name<br><b>James Baldwin</b>                                                                                                                                                                                                                                                                                       |  |                              |  | Signature<br><i>[Signature]</i>                |  |                                               |  | Month Day Year<br><b>10/8/2009</b> |  |                   |  |
| 18. Transporter 2 Acknowledgement of Receipt of Materials                                                                                                                                                                                                                                                                        |  |                              |  |                                                |  |                                               |  |                                    |  |                   |  |
| Printed/Typed Name                                                                                                                                                                                                                                                                                                               |  |                              |  | Signature                                      |  |                                               |  | Month Day Year                     |  |                   |  |
| 19. Certificate of Final Treatment/Disposal<br>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<br><b>J Collins</b>                                                                                                                                                                                                                                                                                           |  |                              |  | Signature<br><i>[Signature]</i>                |  |                                               |  | Month Day Year<br><b>08/27/09</b>  |  |                   |  |

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

# Volatile Organic Compounds by GC/MS

|                                               |                                   |
|-----------------------------------------------|-----------------------------------|
| Client: <b>AECOM - Resolution Consultants</b> | Laboratory ID: <b>QB06006-005</b> |
| Description: <b>BEALB1478TW01WG20150204</b>   | Matrix: <b>Aqueous</b>            |
| Date Sampled: <b>02/04/2015 1320</b>          |                                   |
| Date Received: <b>02/06/2015</b>              |                                   |

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1   | 5030B       | 8260B             | 1        | 02/12/2015 1200 | 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             | 1.6    |   | 1.0 | 0.50 | 0.33 | ug/L  | 1   |
| Naphthalene     | 91-20-3    | 8260B             | 13     |   | 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             | 0.97   | J | 1.0 | 0.40 | 0.33 | ug/L  | 1   |

| Surrogate             | Q | Run 1<br>% Recovery | Acceptance<br>Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 |   | 91                  | 70-120               |
| Bromofluorobenzene    |   | 100                 | 75-120               |
| Toluene-d8            |   | 99                  | 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 ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria      L = LCS/LCSD failure  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"      S = MS/MSD failure

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

Level 1 Report v2.1

# Semivolatile Organic Compounds by GC/MS (SIM)

|                                               |                                   |
|-----------------------------------------------|-----------------------------------|
| Client: <b>AECOM - Resolution Consultants</b> | Laboratory ID: <b>QB06006-005</b> |
| Description: <b>BEALB1478TW01WG20150204</b>   | Matrix: <b>Aqueous</b>            |
| Date Sampled: <b>02/04/2015 1320</b>          |                                   |
| Date Received: <b>02/06/2015</b>              |                                   |

| Run | Prep Method | Analytical Method | Dilution | Analysis Date   | Analyst | Prep Date       | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------------|-------|
| 2   | 3520C       | 8270D (SIM)       | 50       | 02/19/2015 1125 | 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<br>% Recovery | Acceptance<br>Limits |
|-------------------------|---|---------------------|----------------------|
| 2-Methylnaphthalene-d10 |   | 57                  | 15-139               |
| Fluoranthene-d10        |   | 38                  | 23-154               |

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

**Appendix D**  
**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,

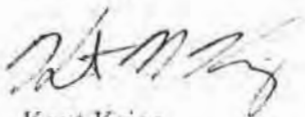
The South Carolina Department of Health and Environmental Control (the Department) received the above referenced Underground Storage Tank Assessment Reports for the addresses listed above. The regulatory authority for the investigation and cleanup of releases from these tank systems is the South Carolina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