

SUMMARY REPORT  
104 BALSAM STREET (FORMERLY 208 BALSAM STREET)  
LAUREL BAY MILITARY HOUSING AREA  
MARINE CORPS AIR STATION BEAUFORT  
BEAUFORT, SC

Revision: 0  
Prepared for:

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

and



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

JUNE 2021

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Prepared by:



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

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

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### List of Acronyms

|                 |   |
|-----------------|---|
| bgs             | below ground surface  |
| BTEX            | benzene, toluene, ethylbenzene, and xylenes                   |
| CTO             | Contract Task Order   |
| COPC            | constituents of potential concern                             |
| 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 104 Balsam Street (Formerly 208 Balsam Street). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

### 1.1 Background Information

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

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

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

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

## 1.2 UST Removal and Assessment Process

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

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

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

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

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

## 2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 104 Balsam Street (Formerly 208 Balsam Street). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 208 Balsam Street* (MCAS Beaufort, 2013). The UST Assessment Report is provided in Appendix B.

### 2.1 UST Removal and Soil Sampling

On July 17, 2013, a single 280 gallon heating oil UST was removed from the landscaped area adjacent to the driveway at 104 Balsam Street (Formerly 208 Balsam Street). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). 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 5'7" bgs and a single soil sample was collected from that depth. The

sample was collected from the fill port side of the former UST to represent a worst case scenario.

Following UST removal, a soil sample was collected from the base of the excavation and shipped to an offsite laboratory for analysis of the petroleum COPCs. Sampling was performed in accordance with applicable South Carolina regulation R.61-92, Part 280 (SCDHEC, 2017) and assessment guidelines.

## 2.2 Soil Analytical Results

A summary of the laboratory analytical results and SCDHEC RBSLs is presented in Table 1. A copy of the laboratory analytical data report is included in the UST Assessment Report presented in Appendix B. The laboratory analytical data report includes the soil results for the additional PAHs that were analyzed, but do not have associated RBSLs.

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 104 Balsam Street (Formerly 208 Balsam Street) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

## 3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 104 Balsam Street (208 Balsam Street). This NFA determination was obtained in a letter dated July 1, 2015. SCDHEC's NFA letter is provided in Appendix C.

## 4.0 REFERENCES

Marine Corps Air Station Beaufort, 2013. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 208 Balsam Street, Laurel Bay Military Housing Area*, October 2013.

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.

## Table

**Table 1**  
**Laboratory Analytical Results - Soil**  
**104 Balsam Street (Formerly 208 Balsam Street)**  
**Laurel Bay Military Housing Area**  
**Marine Corps Air Station Beaufort**  
**Beaufort, South Carolina**

| Constituent  | SCDHEC RBSLs <sup>(1)</sup> | Results<br>Sample Collected 07/17/13 |
|--|-----------------------------|--------------------------------------|
| <b>Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)</b>     |                             |                                      |
| Benzene  | 0.003                       | ND                                   |
| Ethylbenzene   | 1.15                        | ND                                   |
| Naphthalene  | 0.036                       | <b>0.00529</b>                       |
| Toluene  | 0.627                       | ND                                   |
| Xylenes, Total   | 13.01                       | ND                                   |
| <b>Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)</b> |                             |                                      |
| Benzo(a)anthracene   | 0.66                        | ND                                   |
| Benzo(b)fluoranthene   | 0.66                        | ND                                   |
| Benzo(k)fluoranthene   | 0.66                        | ND                                   |
| Chrysene   | 0.66                        | ND                                   |
| Dibenz(a,h)anthracene  | 0.66                        | ND                                   |

**Notes:**

<sup>(1)</sup> South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.0 and 3.1 (SCDHEC, May 2015 and SCDHEC, February 2016) and the Underground Storage Tank Assessment Guidelines (SCDHEC, February 2006).

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

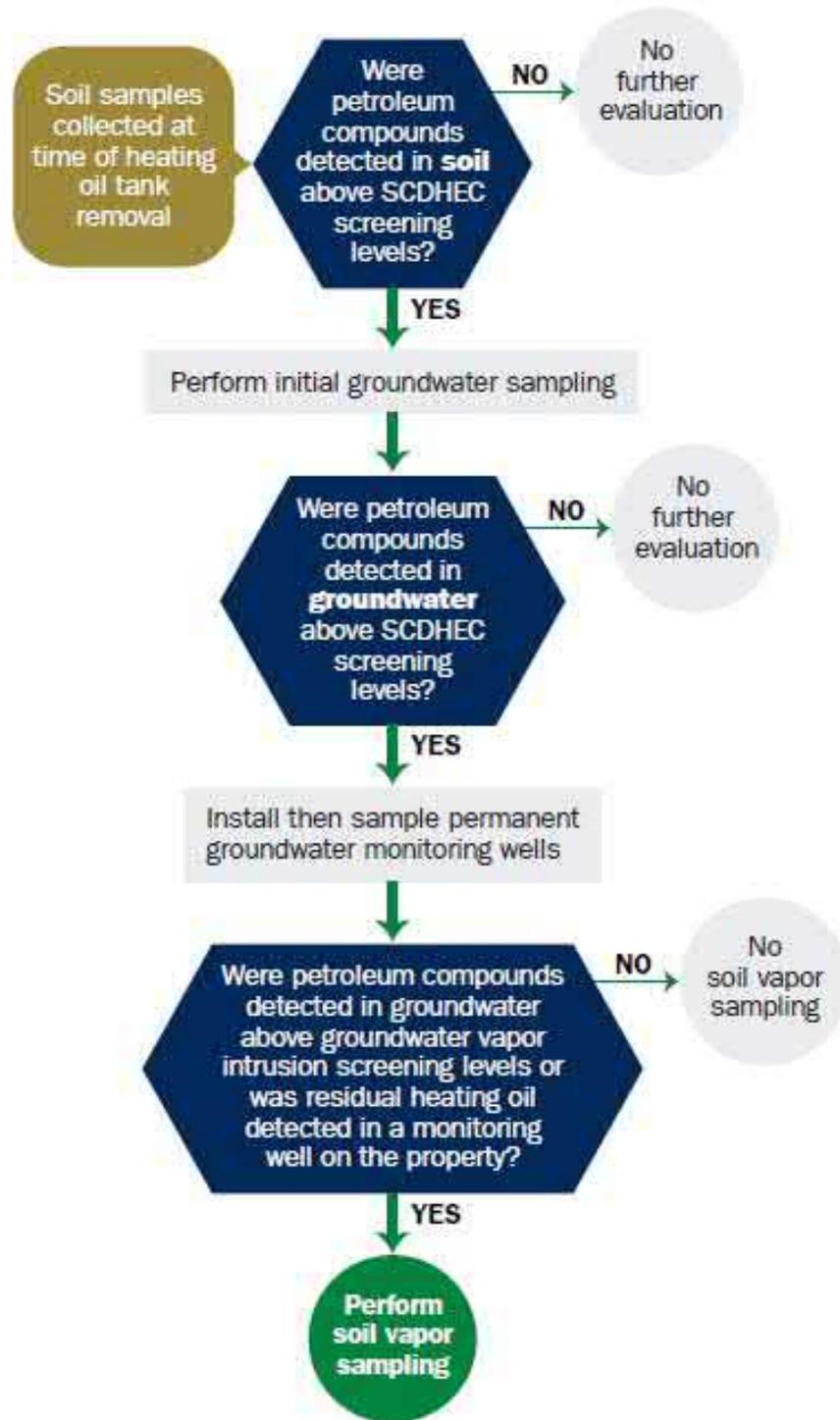
mg/kg - milligram per kilogram

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

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



Appendix A - Multi-Media Selection Process for LBMH

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

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

|                |
|----------------|
| Date Received  |
| State Use Only |

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

**RECEIVED**

OCT 23 2014 <sup>3</sup>

SC DHEC - Bureau of  
 Land & 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,  | South Carolina   | 29904-5001     |
| City   | State            | Zip Code       |
| 843  | 228-7317         | Craig Ehde     |
| Area Code  | Telephone Number | Contact Person |

**II. SITE IDENTIFICATION AND LOCATION**

|  |          |
|--|----------|
| Permit I.D. #  |          |
| Laurel Bay Military Housing Area, Marine Corps Air Station, Beaufort, SC |          |
| Facility Name or Company Site Identifier                                 |          |
| 208 Balsam Drive, Laurel Bay Military Housing Area                       |          |
| Street Address or State Road (as applicable)                             |          |
| Beaufort,  | Beaufort |
| City   | County   |

### III. INSURANCE INFORMATION

#### Insurance Statement

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

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

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

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

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

### IV. REQUEST FOR SUPERB FUNDING

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

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

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

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

\_\_\_\_\_  
Signature

#### To be completed by Notary Public:

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

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

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

**VI. UST INFORMATION**

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

|             |  |  |  |  |
|-------------|--|--|--|--|
| 208Balsam   |  |  |  |  |
| Heating oil |  |  |  |  |
| 280 gal     |  |  |  |  |
| Late 1950s  |  |  |  |  |
| Steel       |  |  |  |  |
| Mid 1980s   |  |  |  |  |
| 5'7"        |  |  |  |  |
| No          |  |  |  |  |
| No          |  |  |  |  |
| Removed     |  |  |  |  |
| 7/17/2013   |  |  |  |  |
| Yes         |  |  |  |  |
| Yes         |  |  |  |  |

M. Method of disposal for any USTs removed from the ground (attach disposal manifests)  
UST 208Balsam was removed from the ground and disposed at a  
Subtitle "D" landfill. See Attachment "A".

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)  
UST 208Balsam 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.....

|                |  |  |  |  |
|----------------|--|--|--|--|
| 208Balsam      |  |  |  |  |
| Steel & Copper |  |  |  |  |
| N/A            |  |  |  |  |
| N/A            |  |  |  |  |
| Suction        |  |  |  |  |
| No             |  |  |  |  |
| Yes            |  |  |  |  |
| No             |  |  |  |  |
| Late 1950s     |  |  |  |  |

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

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

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## 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.

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## IX. SITE CONDITIONS

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

## X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B.

| Sample #      | Location             | Sample Type<br>(Soil/Water) | Soil Type<br>(Sand/Clay) | Depth* | Date/Time of<br>Collection | Collected<br>by | OVA # |
|---------------|----------------------|-----------------------------|--------------------------|--------|----------------------------|-----------------|-------|
| 208<br>Balsam | Excav at<br>fill end | Soil                        | Sandy                    | 5'7"   | 7/17/13<br>1415 hrs        | P. Shaw         |       |
|               |                      |                             |                          |        |                            |                 |       |
|               |                      |                             |                          |        |                            |                 |       |
|               |                      |                             |                          |        |                            |                 |       |
|               |                      |                             |                          |        |                            |                 |       |
|               |                      |                             |                          |        |                            |                 |       |
|               |                      |                             |                          |        |                            |                 |       |
| 8             |                      |                             |                          |        |                            |                 |       |
| 9             |                      |                             |                          |        |                            |                 |       |
| 10            |                      |                             |                          |        |                            |                 |       |
| 11            |                      |                             |                          |        |                            |                 |       |
| 12            |                      |                             |                          |        |                            |                 |       |
| 13            |                      |                             |                          |        |                            |                 |       |
| 14            |                      |                             |                          |        |                            |                 |       |
| 15            |                      |                             |                          |        |                            |                 |       |
| 16            |                      |                             |                          |        |                            |                 |       |
| 17            |                      |                             |                          |        |                            |                 |       |
| 18            |                      |                             |                          |        |                            |                 |       |
| 19            |                      |                             |                          |        |                            |                 |       |
| 20            |                      |                             |                          |        |                            |                 |       |

\* = Depth Below the Surrounding Land Surface



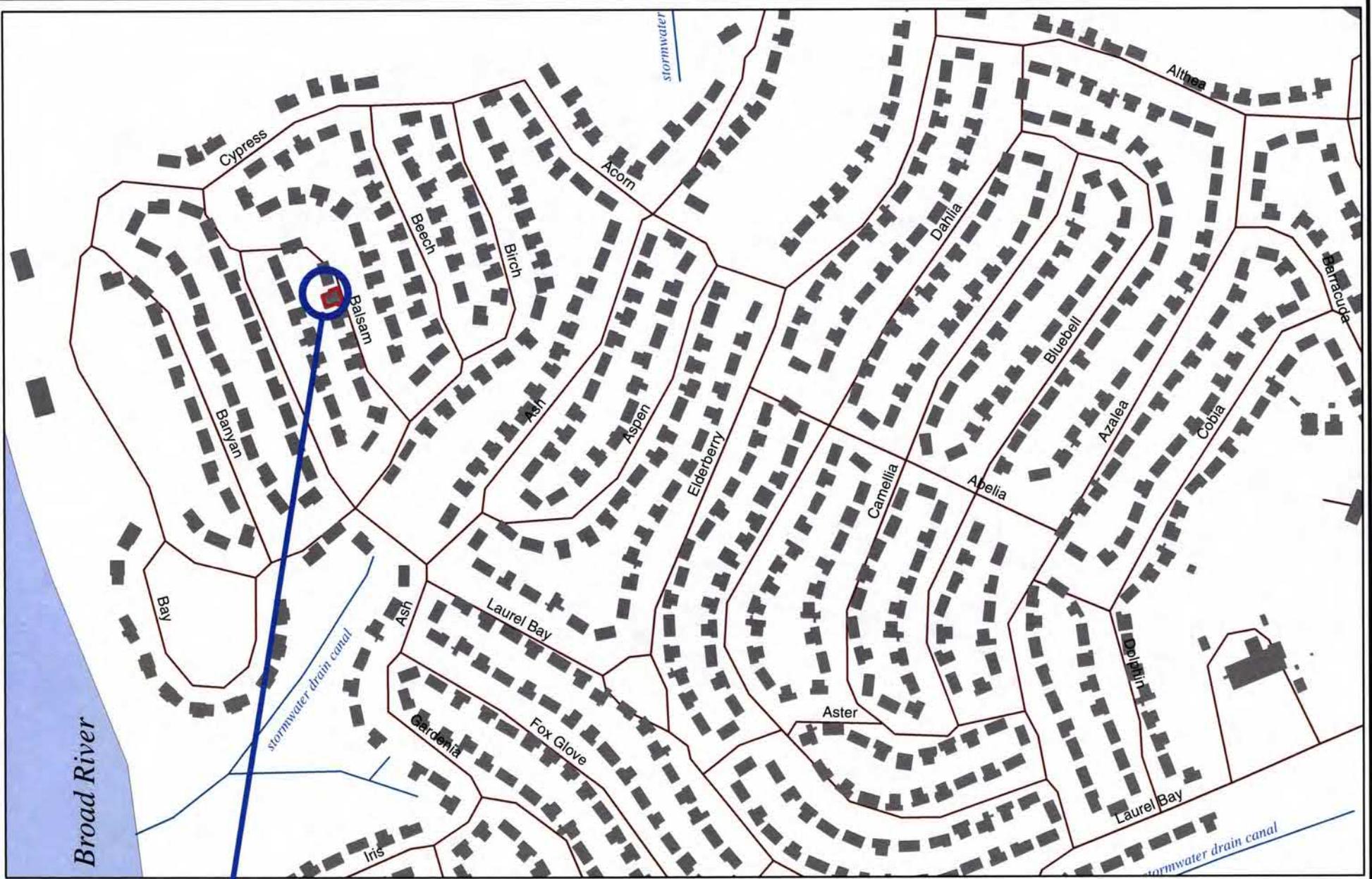
## XII. RECEPTORS

|  | 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;">*Stormwater canal</span></p> <p>If yes, indicate type of receptor, distance, and direction on site map.</p>  | *X  |    |
| <p>B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?</p> <p>If yes, indicate type of well, distance, and direction on site map.</p>   |     | X  |
| <p>C. Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?</p> <p>If yes, indicate type of structure, distance, and direction on site map.</p>  |     | X  |
| <p>D. Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination?<br/> <span style="float: right;">*Sewer, water, electricity cable, fiber optic &amp; geothermal</span></p> <p>If yes, indicate the type of utility, distance, and direction on the site map.</p> | *X  |    |
| <p>E. Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete?</p> <p>If yes, indicate the area of contaminated soil on the site map.</p>  |     | X  |

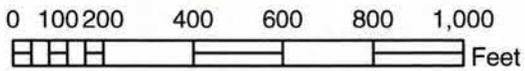
### **XIII. SITE MAP**

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

(Attach Site Map Here)



**208 BALSAM**



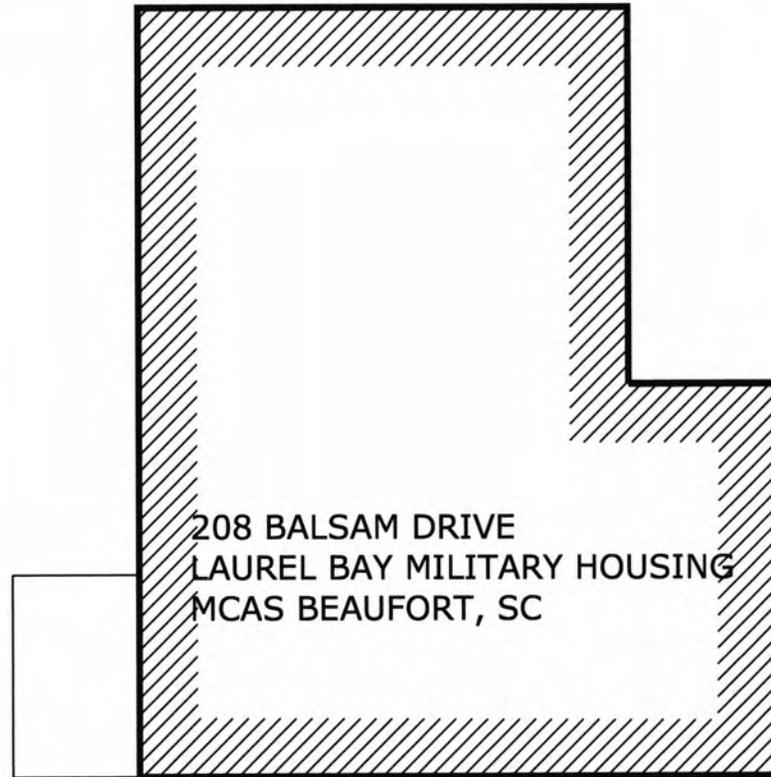
**SBG-EEG, Inc.**  
 7301 Rivers Ave., Suite 245  
 N. Charleston SC 29406-9643  
 Ph. (843) 573-7140

Drawn By: L. DiAsio  
 Dwg Date: Aug 2013

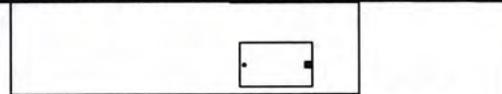
**FIGURE 1: LOCATION MAP**  
**208 BALSAM DRIVE**  
**LAUREL BAY, BEAUFORT SC**



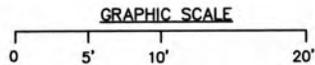
STORMWATER DRAINAGE CANAL ≈ 800'



208 BALSAM DRIVE  
LAUREL BAY MILITARY HOUSING  
MCAS BEAUFORT, SC



UST 208BALSAM



|   |
|---|
| <p><b>DEPTH BELOW GRADE</b><br/>208BALSAM = 31"</p> |
|---|

|   |
|---|
| <p><b><i>SBG-EEG</i></b><br/>7301 RIVERS AVE., SUITE 245<br/>N. CHARLESTON SC 29406-9643<br/>(843) 573-7140</p> |
|---|

|   |                          |
|---|--------------------------|
| <p><b>FIGURE 2 SITE MAP</b><br/>208 BALSAM DRIVE, LAUREL BAY<br/>MCAS BEAUFORT SC</p> |                          |
| <p>SCALE: GRAPHIC</p>   | <p>DWG DATE AUG 2013</p> |

208 BALSAM DRIVE  
LAUREL BAY MILITARY HOUSING  
MCAS BEAUFORT, SC



CONCRETE PORCH

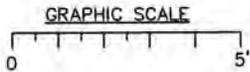
\*EXCAVATION

FILL END

SOIL SAMPLE  
208 BALSAM

UST 208BALSAM,  
280 GALLONS

ASPHALT DRIVEWAY



\*A PORTION OF THE CONCRETE  
PORCH WAS REMOVED TO  
FACILITATE TANK EXTRACTION.

**SBG-EEG**

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

FIGURE 3 UST SAMPLE LOCATIONS  
208 BALSAM DRIVE, LAUREL BAY  
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE AUG 2013



Picture 1: Location of UST 208Balsam.



Picture 2: UST 208Balsam excavation.

#### XIV. SUMMARY OF ANALYSIS RESULTS

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

|                                 |     |               |  |  |  |  |  |  |
|---------------------------------|-----|---------------|--|--|--|--|--|--|
| <b>CoC</b>                      | UST | 208Balsam     |  |  |  |  |  |  |
| <b>Benzene</b>                  |     | ND            |  |  |  |  |  |  |
| <b>Toluene</b>                  |     | ND            |  |  |  |  |  |  |
| <b>Ethylbenzene</b>             |     | ND            |  |  |  |  |  |  |
| <b>Xylenes</b>                  |     | ND            |  |  |  |  |  |  |
| <b>Naphthalene</b>              |     | 0.00529 mg/kg |  |  |  |  |  |  |
| <b>Benzo (a) anthracene</b>     |     | ND            |  |  |  |  |  |  |
| <b>Benzo (b) fluoranthene</b>   |     | ND            |  |  |  |  |  |  |
| <b>Benzo (k) fluoranthene</b>   |     | ND            |  |  |  |  |  |  |
| <b>Chrysene</b>                 |     | ND            |  |  |  |  |  |  |
| <b>Dibenz (a, h) anthracene</b> |     | ND            |  |  |  |  |  |  |
| <b>TPH (EPA 3550)</b>           |     |               |  |  |  |  |  |  |

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

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

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

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

## **XV. ANALYTICAL RESULTS**

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

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

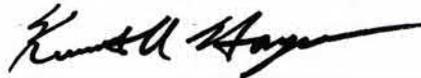
## ANALYTICAL REPORT

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

TestAmerica Job ID: 490-31456-1  
Client Project/Site: Laurel Bay Housing Project

For:  
Small Business Group Inc.  
10179 Highway 78  
Ladson, South Carolina 29456

Attn: Tom McElwee



Authorized for release by:  
8/2/2013 1:40:04 PM

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

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### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?

**Ask  
The  
Expert**

Visit us at:

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

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

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

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

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# Sample Summary

Client: Small Business Group Inc.  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-31456-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 490-31456-1   | 342 Ash-2        | Solid  | 07/15/13 15:30 | 07/23/13 08:15 |
| 490-31456-2   | 145 Laurel Bay   | Solid  | 07/16/13 14:00 | 07/23/13 08:15 |
| 490-31456-3   | 208 Balsam       | Solid  | 07/17/13 14:15 | 07/23/13 08:15 |
| 490-31456-4   | 202 Balsam       | Solid  | 07/18/13 14:15 | 07/23/13 08:15 |

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## Case Narrative

Client: Small Business Group Inc.  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-31456-1

**Job ID: 490-31456-1**

**Laboratory: TestAmerica Nashville**

**Narrative**

**Job Narrative**  
**490-31456-1**

### Comments

No additional comments.

### Receipt

The samples were received on 7/23/2013 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

### GC/MS VOA

Method(s) 8260B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample(s): 342 Ash-2 (490-31456-1).

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: 342 Ash-2 (490-31456-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 95239.

Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample matrix: 342 Ash-2 (490-31456-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

### GC/MS Semi VOA

Method(s) 8270D: Matrix spikes for batch 94906 could not be recovered due to sample matrix interferences and failing internal standards. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 8270D: Surrogate recovery for the following sample(s) was outside control limits: 342 Ash-2 (490-31456-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

### Organic Prep

No analytical or quality issues were noted.

### VOA Prep

No analytical or quality issues were noted.

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## Definitions/Glossary

Client: Small Business Group Inc.  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-31456-1

### Qualifiers

#### GC/MS VOA

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

#### GC/MS Semi VOA

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

### Glossary

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

# Client Sample Results

Client: Small Business Group Inc.  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-31456-1

**Client Sample ID: 342 Ash-2**

**Lab Sample ID: 490-31456-1**

Date Collected: 07/15/13 15:30

Matrix: Solid

Date Received: 07/23/13 08:15

Percent Solids: 72.3

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

| Analyte        | Result | Qualifier | RL     | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|--------|--------|-------|---|----------------|----------------|---------|
| Benzene        | ND     |           | 0.0883 | 0.0300 | mg/Kg | ☒ | 07/23/13 14:57 | 07/25/13 17:12 | 1       |
| Ethylbenzene   | 0.200  |           | 0.0883 | 0.0300 | mg/Kg | ☒ | 07/23/13 14:57 | 07/25/13 17:12 | 1       |
| Naphthalene    | 2.14   |           | 0.221  | 0.0751 | mg/Kg | ☒ | 07/23/13 14:57 | 07/25/13 17:12 | 1       |
| Toluene        | ND     |           | 0.0883 | 0.0327 | mg/Kg | ☒ | 07/23/13 14:57 | 07/25/13 17:12 | 1       |
| Xylenes, Total | ND     |           | 0.221  | 0.0300 | mg/Kg | ☒ | 07/23/13 14:57 | 07/25/13 17:12 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 70 - 130 | 07/23/13 14:57 | 07/25/13 17:12 | 1       |
| 4-Bromofluorobenzene (Surr)  | 91        |           | 70 - 130 | 07/23/13 14:57 | 07/25/13 17:12 | 1       |
| Dibromofluoromethane (Surr)  | 97        |           | 70 - 130 | 07/23/13 14:57 | 07/25/13 17:12 | 1       |
| Toluene-d8 (Surr)            | 96        |           | 70 - 130 | 07/23/13 14:57 | 07/25/13 17:12 | 1       |

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

| Analyte                | Result | Qualifier | RL     | MDL     | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acenaphthene           | 2.67   |           | 0.0925 | 0.0138  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 19:43 | 1       |
| Acenaphthylene         | ND     |           | 0.0925 | 0.0124  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 19:43 | 1       |
| Anthracene             | 0.928  |           | 0.0925 | 0.0124  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 19:43 | 1       |
| Benzo[a]anthracene     | 0.578  |           | 0.0925 | 0.0207  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 19:43 | 1       |
| Benzo[a]pyrene         | 0.248  |           | 0.0925 | 0.0166  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 19:43 | 1       |
| Benzo[b]fluoranthene   | 0.442  |           | 0.0925 | 0.0166  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 19:43 | 1       |
| Benzo[g,h,i]perylene   | 0.0836 | J         | 0.0925 | 0.0124  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 19:43 | 1       |
| Benzo[k]fluoranthene   | 0.159  |           | 0.0925 | 0.0193  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 19:43 | 1       |
| 1-Methylnaphthalene    | 44.3   |           | 2.31   | 0.483   | mg/Kg | ☒ | 07/24/13 09:08 | 07/26/13 19:18 | 25      |
| Pyrene                 | 1.32   |           | 0.0925 | 0.0166  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 19:43 | 1       |
| Phenanthrene           | 11.7   |           | 0.462  | 0.0621  | mg/Kg | ☒ | 07/24/13 09:08 | 07/26/13 18:51 | 5       |
| Chrysene               | 0.407  |           | 0.0925 | 0.0124  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 19:43 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 0.0925 | 0.00966 | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 19:43 | 1       |
| Fluoranthene           | 1.76   |           | 0.0925 | 0.0124  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 19:43 | 1       |
| Fluorene               | 5.71   |           | 0.462  | 0.0828  | mg/Kg | ☒ | 07/24/13 09:08 | 07/26/13 18:51 | 5       |
| Indeno[1,2,3-cd]pyrene | 0.0800 | J         | 0.0925 | 0.0138  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 19:43 | 1       |
| Naphthalene            | 16.7   |           | 0.462  | 0.0621  | mg/Kg | ☒ | 07/24/13 09:08 | 07/26/13 18:51 | 5       |
| 2-Methylnaphthalene    | 73.2   |           | 2.31   | 0.552   | mg/Kg | ☒ | 07/24/13 09:08 | 07/26/13 19:18 | 25      |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 54        |           | 29 - 120 | 07/24/13 09:08 | 07/25/13 19:43 | 1       |
| Terphenyl-d14 (Surr)    | 57        |           | 13 - 120 | 07/24/13 09:08 | 07/25/13 19:43 | 1       |
| Nitrobenzene-d5 (Surr)  | 98        |           | 27 - 120 | 07/24/13 09:08 | 07/25/13 19:43 | 1       |

### General Chemistry

| Analyte        | Result | Qualifier | RL   | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Percent Solids | 72     |           | 0.10 | 0.10 | %    |   |          | 07/23/13 15:21 | 1       |

TestAmerica Nashville

# Client Sample Results

Client: Small Business Group Inc.  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-31456-1

**Client Sample ID: 145 Laurel Bay**

**Lab Sample ID: 490-31456-2**

Date Collected: 07/16/13 14:00

Matrix: Solid

Date Received: 07/23/13 08:15

Percent Solids: 77.2

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

| Analyte        | Result | Qualifier | RL      | MDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|---------|----------|-------|---|----------------|----------------|---------|
| Benzene        | ND     |           | 0.00224 | 0.000749 | mg/Kg | ☒ | 07/23/13 14:59 | 07/25/13 16:13 | 1       |
| Ethylbenzene   | ND     |           | 0.00224 | 0.000749 | mg/Kg | ☒ | 07/23/13 14:59 | 07/25/13 16:13 | 1       |
| Naphthalene    | ND     |           | 0.00559 | 0.00190  | mg/Kg | ☒ | 07/23/13 14:59 | 07/25/13 16:13 | 1       |
| Toluene        | ND     |           | 0.00224 | 0.000827 | mg/Kg | ☒ | 07/23/13 14:59 | 07/25/13 16:13 | 1       |
| Xylenes, Total | ND     |           | 0.00559 | 0.000749 | mg/Kg | ☒ | 07/23/13 14:59 | 07/25/13 16:13 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 98        |           | 70 - 130 | 07/23/13 14:59 | 07/25/13 16:13 | 1       |
| 4-Bromofluorobenzene (Surr)  | 95        |           | 70 - 130 | 07/23/13 14:59 | 07/25/13 16:13 | 1       |
| Dibromofluoromethane (Surr)  | 100       |           | 70 - 130 | 07/23/13 14:59 | 07/25/13 16:13 | 1       |
| Toluene-d8 (Surr)            | 98        |           | 70 - 130 | 07/23/13 14:59 | 07/25/13 16:13 | 1       |

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

| Analyte                | Result | Qualifier | RL     | MDL     | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acenaphthene           | ND     |           | 0.0856 | 0.0128  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:07 | 1       |
| Acenaphthylene         | ND     |           | 0.0856 | 0.0115  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:07 | 1       |
| Anthracene             | ND     |           | 0.0856 | 0.0115  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:07 | 1       |
| Benzo[a]anthracene     | ND     |           | 0.0856 | 0.0192  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:07 | 1       |
| Benzo[a]pyrene         | ND     |           | 0.0856 | 0.0153  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:07 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 0.0856 | 0.0153  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:07 | 1       |
| Benzo[g,h,i]perylene   | ND     |           | 0.0856 | 0.0115  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:07 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 0.0856 | 0.0179  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:07 | 1       |
| 1-Methylnaphthalene    | ND     |           | 0.0856 | 0.0179  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:07 | 1       |
| Pyrene                 | ND     |           | 0.0856 | 0.0153  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:07 | 1       |
| Phenanthrene           | ND     |           | 0.0856 | 0.0115  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:07 | 1       |
| Chrysene               | ND     |           | 0.0856 | 0.0115  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:07 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 0.0856 | 0.00894 | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:07 | 1       |
| Fluoranthene           | ND     |           | 0.0856 | 0.0115  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:07 | 1       |
| Fluorene               | ND     |           | 0.0856 | 0.0153  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:07 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 0.0856 | 0.0128  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:07 | 1       |
| Naphthalene            | ND     |           | 0.0856 | 0.0115  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:07 | 1       |
| 2-Methylnaphthalene    | 0.0473 | J         | 0.0856 | 0.0204  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:07 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 38        |           | 29 - 120 | 07/24/13 09:08 | 07/25/13 21:07 | 1       |
| Terphenyl-d14 (Surr)    | 30        |           | 13 - 120 | 07/24/13 09:08 | 07/25/13 21:07 | 1       |
| Nitrobenzene-d5 (Surr)  | 43        |           | 27 - 120 | 07/24/13 09:08 | 07/25/13 21:07 | 1       |

### General Chemistry

| Analyte        | Result | Qualifier | RL   | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Percent Solids | 77     |           | 0.10 | 0.10 | %    |   |          | 07/23/13 15:21 | 1       |

TestAmerica Nashville

# Client Sample Results

Client: Small Business Group Inc.  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-31456-1

**Client Sample ID: 208 Balsam**

**Lab Sample ID: 490-31456-3**

Date Collected: 07/17/13 14:15

Matrix: Solid

Date Received: 07/23/13 08:15

Percent Solids: 77.8

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

| Analyte        | Result  | Qualifier | RL      | MDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|---------|-----------|---------|----------|-------|---|----------------|----------------|---------|
| Benzene        | ND      |           | 0.00234 | 0.000785 | mg/Kg | ☒ | 07/23/13 14:59 | 07/24/13 21:23 | 1       |
| Ethylbenzene   | ND      |           | 0.00234 | 0.000785 | mg/Kg | ☒ | 07/23/13 14:59 | 07/24/13 21:23 | 1       |
| Naphthalene    | 0.00529 | J         | 0.00586 | 0.00199  | mg/Kg | ☒ | 07/23/13 14:59 | 07/24/13 21:23 | 1       |
| Toluene        | ND      |           | 0.00234 | 0.000867 | mg/Kg | ☒ | 07/23/13 14:59 | 07/24/13 21:23 | 1       |
| Xylenes, Total | ND      |           | 0.00586 | 0.000785 | mg/Kg | ☒ | 07/23/13 14:59 | 07/24/13 21:23 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 87        |           | 70 - 130 | 07/23/13 14:59 | 07/24/13 21:23 | 1       |
| 4-Bromofluorobenzene (Surr)  | 97        |           | 70 - 130 | 07/23/13 14:59 | 07/24/13 21:23 | 1       |
| Dibromofluoromethane (Surr)  | 93        |           | 70 - 130 | 07/23/13 14:59 | 07/24/13 21:23 | 1       |
| Toluene-d8 (Surr)            | 98        |           | 70 - 130 | 07/23/13 14:59 | 07/24/13 21:23 | 1       |

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

| Analyte                | Result | Qualifier | RL     | MDL     | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acenaphthene           | ND     |           | 0.0841 | 0.0126  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:35 | 1       |
| Acenaphthylene         | ND     |           | 0.0841 | 0.0113  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:35 | 1       |
| Anthracene             | ND     |           | 0.0841 | 0.0113  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:35 | 1       |
| Benzo[a]anthracene     | ND     |           | 0.0841 | 0.0188  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:35 | 1       |
| Benzo[a]pyrene         | ND     |           | 0.0841 | 0.0151  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:35 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 0.0841 | 0.0151  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:35 | 1       |
| Benzo[g,h,i]perylene   | ND     |           | 0.0841 | 0.0113  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:35 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 0.0841 | 0.0176  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:35 | 1       |
| 1-Methylnaphthalene    | ND     |           | 0.0841 | 0.0176  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:35 | 1       |
| Pyrene                 | ND     |           | 0.0841 | 0.0151  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:35 | 1       |
| Phenanthrene           | ND     |           | 0.0841 | 0.0113  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:35 | 1       |
| Chrysene               | ND     |           | 0.0841 | 0.0113  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:35 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 0.0841 | 0.00879 | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:35 | 1       |
| Fluoranthene           | ND     |           | 0.0841 | 0.0113  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:35 | 1       |
| Fluorene               | ND     |           | 0.0841 | 0.0151  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:35 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 0.0841 | 0.0126  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:35 | 1       |
| Naphthalene            | ND     |           | 0.0841 | 0.0113  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:35 | 1       |
| 2-Methylnaphthalene    | ND     |           | 0.0841 | 0.0201  | mg/Kg | ☒ | 07/24/13 09:08 | 07/25/13 21:35 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 56        |           | 29 - 120 | 07/24/13 09:08 | 07/25/13 21:35 | 1       |
| Terphenyl-d14 (Surr)    | 73        |           | 13 - 120 | 07/24/13 09:08 | 07/25/13 21:35 | 1       |
| Nitrobenzene-d5 (Surr)  | 52        |           | 27 - 120 | 07/24/13 09:08 | 07/25/13 21:35 | 1       |

### General Chemistry

| Analyte        | Result | Qualifier | RL   | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Percent Solids | 78     |           | 0.10 | 0.10 | %    |   |          | 07/23/13 15:21 | 1       |

TestAmerica Nashville



# Client Sample Results

Client: Small Business Group Inc.  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-31456-1

**Client Sample ID: 202 Balsam**

**Lab Sample ID: 490-31456-4**

Date Collected: 07/18/13 14:15

Matrix: Solid

Date Received: 07/23/13 08:15

Percent Solids: 85.7

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

| Analyte        | Result | Qualifier | RL      | MDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|---------|----------|-------|---|----------------|----------------|---------|
| Benzene        | ND     |           | 0.00242 | 0.000812 | mg/Kg | ✘ | 07/23/13 14:59 | 07/24/13 21:52 | 1       |
| Ethylbenzene   | ND     |           | 0.00242 | 0.000812 | mg/Kg | ✘ | 07/23/13 14:59 | 07/24/13 21:52 | 1       |
| Naphthalene    | ND     |           | 0.00606 | 0.00206  | mg/Kg | ✘ | 07/23/13 14:59 | 07/24/13 21:52 | 1       |
| Toluene        | ND     |           | 0.00242 | 0.000897 | mg/Kg | ✘ | 07/23/13 14:59 | 07/24/13 21:52 | 1       |
| Xylenes, Total | ND     |           | 0.00606 | 0.000812 | mg/Kg | ✘ | 07/23/13 14:59 | 07/24/13 21:52 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 91        |           | 70 - 130 | 07/23/13 14:59 | 07/24/13 21:52 | 1       |
| 4-Bromofluorobenzene (Surr)  | 103       |           | 70 - 130 | 07/23/13 14:59 | 07/24/13 21:52 | 1       |
| Dibromofluoromethane (Surr)  | 97        |           | 70 - 130 | 07/23/13 14:59 | 07/24/13 21:52 | 1       |
| Toluene-d8 (Surr)            | 98        |           | 70 - 130 | 07/23/13 14:59 | 07/24/13 21:52 | 1       |

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

| Analyte                | Result | Qualifier | RL     | MDL     | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acenaphthene           | 0.0899 |           | 0.0759 | 0.0113  | mg/Kg | ✘ | 07/24/13 09:08 | 07/26/13 16:58 | 1       |
| Acenaphthylene         | ND     |           | 0.0759 | 0.0102  | mg/Kg | ✘ | 07/24/13 09:08 | 07/26/13 16:58 | 1       |
| Anthracene             | ND     |           | 0.0759 | 0.0102  | mg/Kg | ✘ | 07/24/13 09:08 | 07/26/13 16:58 | 1       |
| Benzo[a]anthracene     | ND     |           | 0.0759 | 0.0170  | mg/Kg | ✘ | 07/24/13 09:08 | 07/26/13 16:58 | 1       |
| Benzo[a]pyrene         | ND     |           | 0.0759 | 0.0136  | mg/Kg | ✘ | 07/24/13 09:08 | 07/26/13 16:58 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 0.0759 | 0.0136  | mg/Kg | ✘ | 07/24/13 09:08 | 07/26/13 16:58 | 1       |
| Benzo[g,h,i]perylene   | ND     |           | 0.0759 | 0.0102  | mg/Kg | ✘ | 07/24/13 09:08 | 07/26/13 16:58 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 0.0759 | 0.0159  | mg/Kg | ✘ | 07/24/13 09:08 | 07/26/13 16:58 | 1       |
| 1-Methylnaphthalene    | 0.205  |           | 0.0759 | 0.0159  | mg/Kg | ✘ | 07/24/13 09:08 | 07/26/13 16:58 | 1       |
| Pyrene                 | ND     |           | 0.0759 | 0.0136  | mg/Kg | ✘ | 07/24/13 09:08 | 07/26/13 16:58 | 1       |
| Phenanthrene           | ND     |           | 0.0759 | 0.0102  | mg/Kg | ✘ | 07/24/13 09:08 | 07/26/13 16:58 | 1       |
| Chrysene               | ND     |           | 0.0759 | 0.0102  | mg/Kg | ✘ | 07/24/13 09:08 | 07/26/13 16:58 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 0.0759 | 0.00793 | mg/Kg | ✘ | 07/24/13 09:08 | 07/26/13 16:58 | 1       |
| Fluoranthene           | ND     |           | 0.0759 | 0.0102  | mg/Kg | ✘ | 07/24/13 09:08 | 07/26/13 16:58 | 1       |
| Fluorene               | ND     |           | 0.0759 | 0.0136  | mg/Kg | ✘ | 07/24/13 09:08 | 07/26/13 16:58 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 0.0759 | 0.0113  | mg/Kg | ✘ | 07/24/13 09:08 | 07/26/13 16:58 | 1       |
| Naphthalene            | ND     |           | 0.0759 | 0.0102  | mg/Kg | ✘ | 07/24/13 09:08 | 07/26/13 16:58 | 1       |
| 2-Methylnaphthalene    | ND     |           | 0.0759 | 0.0181  | mg/Kg | ✘ | 07/24/13 09:08 | 07/26/13 16:58 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 35        |           | 29 - 120 | 07/24/13 09:08 | 07/26/13 16:58 | 1       |
| Terphenyl-d14 (Surr)    | 32        |           | 13 - 120 | 07/24/13 09:08 | 07/26/13 16:58 | 1       |
| Nitrobenzene-d5 (Surr)  | 32        |           | 27 - 120 | 07/24/13 09:08 | 07/26/13 16:58 | 1       |

### General Chemistry

| Analyte        | Result | Qualifier | RL   | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Percent Solids | 86     |           | 0.10 | 0.10 | %    |   |          | 07/23/13 15:21 | 1       |

TestAmerica Nashville

# QC Sample Results

Client: Small Business Group Inc.  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-31456-1

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

| Lab Sample ID: 490-31306-C-2-D MS |           |           |          |         |           | Client Sample ID: Matrix Spike |   |      |              |
|-----------------------------------|-----------|-----------|----------|---------|-----------|--------------------------------|---|------|--------------|
| Matrix: Solid                     |           |           |          |         |           | Prep Type: Total/NA            |   |      |              |
| Analysis Batch: 94987             |           |           |          |         |           | Prep Batch: 94750              |   |      |              |
| Analyte                           | Sample    | Sample    | Spike    | MS      | MS        | Unit                           | D | %Rec | %Rec. Limits |
|                                   | Result    | Qualifier | Added    | Result  | Qualifier |                                |   |      |              |
| Benzene                           | ND        |           | 0.0527   | 0.05033 |           | mg/Kg                          | ☒ | 95   | 31 - 143     |
| Ethylbenzene                      | ND        |           | 0.0527   | 0.04665 |           | mg/Kg                          | ☒ | 88   | 23 - 161     |
| Naphthalene                       | ND        |           | 0.0527   | 0.04927 |           | mg/Kg                          | ☒ | 93   | 10 - 176     |
| Toluene                           | ND        |           | 0.0527   | 0.04721 |           | mg/Kg                          | ☒ | 90   | 30 - 155     |
| Xylenes, Total                    | ND        |           | 0.158    | 0.1409  |           | mg/Kg                          | ☒ | 89   | 25 - 162     |
| Surrogate                         |           |           |          |         |           |                                |   |      |              |
|                                   | MS        | MS        |          |         |           |                                |   |      |              |
| Surrogate                         | %Recovery | Qualifier | Limits   |         |           |                                |   |      |              |
| 1,2-Dichloroethane-d4 (Surr)      | 93        |           | 70 - 130 |         |           |                                |   |      |              |
| 4-Bromofluorobenzene (Surr)       | 91        |           | 70 - 130 |         |           |                                |   |      |              |
| Dibromofluoromethane (Surr)       | 99        |           | 70 - 130 |         |           |                                |   |      |              |
| Toluene-d8 (Surr)                 | 97        |           | 70 - 130 |         |           |                                |   |      |              |

| Lab Sample ID: 490-31306-C-2-E MSD |           |           |          |         |           | Client Sample ID: Matrix Spike Duplicate |   |      |              |     |       |
|------------------------------------|-----------|-----------|----------|---------|-----------|--|---|------|--------------|-----|-------|
| Matrix: Solid                      |           |           |          |         |           | Prep Type: Total/NA                      |   |      |              |     |       |
| Analysis Batch: 94987              |           |           |          |         |           | Prep Batch: 94750                        |   |      |              |     |       |
| Analyte                            | Sample    | Sample    | Spike    | MSD     | MSD       | Unit                                     | D | %Rec | %Rec. Limits | RPD | Limit |
|                                    | Result    | Qualifier | Added    | Result  | Qualifier |  |   |      |              |     |       |
| Benzene                            | ND        |           | 0.0501   | 0.04632 |           | mg/Kg                                    | ☒ | 92   | 31 - 143     | 8   | 50    |
| Ethylbenzene                       | ND        |           | 0.0501   | 0.04260 |           | mg/Kg                                    | ☒ | 85   | 23 - 161     | 9   | 50    |
| Naphthalene                        | ND        |           | 0.0501   | 0.04675 |           | mg/Kg                                    | ☒ | 93   | 10 - 176     | 5   | 50    |
| Toluene                            | ND        |           | 0.0501   | 0.04325 |           | mg/Kg                                    | ☒ | 86   | 30 - 155     | 9   | 50    |
| Xylenes, Total                     | ND        |           | 0.150    | 0.1282  |           | mg/Kg                                    | ☒ | 85   | 25 - 162     | 9   | 50    |
| Surrogate                          |           |           |          |         |           |  |   |      |              |     |       |
|                                    | MSD       | MSD       |          |         |           |  |   |      |              |     |       |
| Surrogate                          | %Recovery | Qualifier | Limits   |         |           |  |   |      |              |     |       |
| 1,2-Dichloroethane-d4 (Surr)       | 92        |           | 70 - 130 |         |           |  |   |      |              |     |       |
| 4-Bromofluorobenzene (Surr)        | 92        |           | 70 - 130 |         |           |  |   |      |              |     |       |
| Dibromofluoromethane (Surr)        | 100       |           | 70 - 130 |         |           |  |   |      |              |     |       |
| Toluene-d8 (Surr)                  | 96        |           | 70 - 130 |         |           |  |   |      |              |     |       |

| Lab Sample ID: MB 490-94987/6 |           |           |          |          |       | Client Sample ID: Method Blank |          |                |         |
|-------------------------------|-----------|-----------|----------|----------|-------|--------------------------------|----------|----------------|---------|
| Matrix: Solid                 |           |           |          |          |       | Prep Type: Total/NA            |          |                |         |
| Analysis Batch: 94987         |           |           |          |          |       |                                |          |                |         |
| Analyte                       | MB        | MB        | RL       | MDL      | Unit  | D                              | Prepared | Analyzed       | Dil Fac |
|                               | Result    | Qualifier |          |          |       |                                |          |                |         |
| Benzene                       | ND        |           | 0.00200  | 0.000670 | mg/Kg |                                |          | 07/24/13 14:35 | 1       |
| Ethylbenzene                  | ND        |           | 0.00200  | 0.000670 | mg/Kg |                                |          | 07/24/13 14:35 | 1       |
| Naphthalene                   | ND        |           | 0.00500  | 0.00170  | mg/Kg |                                |          | 07/24/13 14:35 | 1       |
| Toluene                       | ND        |           | 0.00200  | 0.000740 | mg/Kg |                                |          | 07/24/13 14:35 | 1       |
| Xylenes, Total                | ND        |           | 0.00500  | 0.000670 | mg/Kg |                                |          | 07/24/13 14:35 | 1       |
| Surrogate                     |           |           |          |          |       |                                |          |                |         |
|                               | MB        | MB        |          |          |       |                                |          |                |         |
| Surrogate                     | %Recovery | Qualifier | Limits   |          |       |                                | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr)  | 97        |           | 70 - 130 |          |       |                                |          | 07/24/13 14:35 | 1       |
| 4-Bromofluorobenzene (Surr)   | 94        |           | 70 - 130 |          |       |                                |          | 07/24/13 14:35 | 1       |
| Dibromofluoromethane (Surr)   | 106       |           | 70 - 130 |          |       |                                |          | 07/24/13 14:35 | 1       |
| Toluene-d8 (Surr)             | 97        |           | 70 - 130 |          |       |                                |          | 07/24/13 14:35 | 1       |

TestAmerica Nashville

## QC Sample Results

Client: Small Business Group Inc.  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-31456-1

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

Lab Sample ID: LCS 490-94987/3

Matrix: Solid

Analysis Batch: 94987

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte        | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |  |
|----------------|-------------|------------|---------------|-------|---|------|--------------|--|
|                |             |            |               |       |   |      |              |  |
| Benzene        | 0.0500      | 0.04676    |               | mg/Kg |   | 94   | 75 - 127     |  |
| Ethylbenzene   | 0.0500      | 0.04163    |               | mg/Kg |   | 83   | 80 - 134     |  |
| Naphthalene    | 0.0500      | 0.04471    |               | mg/Kg |   | 89   | 69 - 150     |  |
| Toluene        | 0.0500      | 0.04321    |               | mg/Kg |   | 86   | 80 - 132     |  |
| Xylenes, Total | 0.150       | 0.1268     |               | mg/Kg |   | 85   | 80 - 137     |  |

| Surrogate                    | LCS LCS   |           | Limits   |
|------------------------------|-----------|-----------|----------|
|                              | %Recovery | Qualifier |          |
| 1,2-Dichloroethane-d4 (Surr) | 97        |           | 70 - 130 |
| 4-Bromofluorobenzene (Surr)  | 87        |           | 70 - 130 |
| Dibromofluoromethane (Surr)  | 104       |           | 70 - 130 |
| Toluene-d8 (Surr)            | 96        |           | 70 - 130 |

Lab Sample ID: LCSD 490-94987/4

Matrix: Solid

Analysis Batch: 94987

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte        | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits |   | RPD |       |
|----------------|-------------|-------------|----------------|-------|---|------|--------------|---|-----|-------|
|                |             |             |                |       |   |      |              |   | RPD | Limit |
| Benzene        | 0.0500      | 0.04819     |                | mg/Kg |   | 96   | 75 - 127     | 3 | 50  |       |
| Ethylbenzene   | 0.0500      | 0.04233     |                | mg/Kg |   | 85   | 80 - 134     | 2 | 50  |       |
| Naphthalene    | 0.0500      | 0.04407     |                | mg/Kg |   | 88   | 69 - 150     | 1 | 50  |       |
| Toluene        | 0.0500      | 0.04338     |                | mg/Kg |   | 87   | 80 - 132     | 0 | 50  |       |
| Xylenes, Total | 0.150       | 0.1291      |                | mg/Kg |   | 86   | 80 - 137     | 2 | 50  |       |

| Surrogate                    | LCSD LCSD |           | Limits   |
|------------------------------|-----------|-----------|----------|
|                              | %Recovery | Qualifier |          |
| 1,2-Dichloroethane-d4 (Surr) | 101       |           | 70 - 130 |
| 4-Bromofluorobenzene (Surr)  | 87        |           | 70 - 130 |
| Dibromofluoromethane (Surr)  | 105       |           | 70 - 130 |
| Toluene-d8 (Surr)            | 95        |           | 70 - 130 |

Lab Sample ID: MB 490-95239/6

Matrix: Solid

Analysis Batch: 95239

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte        | MB MB  |           | RL      | MDL      | Unit  | D | Prepared       | Analyzed | Dil Fac |
|----------------|--------|-----------|---------|----------|-------|---|----------------|----------|---------|
|                | Result | Qualifier |         |          |       |   |                |          |         |
| Benzene        | ND     |           | 0.00200 | 0.000670 | mg/Kg |   | 07/25/13 12:19 | 1        |         |
| Ethylbenzene   | ND     |           | 0.00200 | 0.000670 | mg/Kg |   | 07/25/13 12:19 | 1        |         |
| Naphthalene    | ND     |           | 0.00500 | 0.00170  | mg/Kg |   | 07/25/13 12:19 | 1        |         |
| Toluene        | ND     |           | 0.00200 | 0.000740 | mg/Kg |   | 07/25/13 12:19 | 1        |         |
| Xylenes, Total | ND     |           | 0.00500 | 0.000670 | mg/Kg |   | 07/25/13 12:19 | 1        |         |

| Surrogate                    | MB MB     |           | Limits   | Prepared       | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------|---------|
|                              | %Recovery | Qualifier |          |                |          |         |
| 1,2-Dichloroethane-d4 (Surr) | 95        |           | 70 - 130 | 07/25/13 12:19 | 1        |         |
| 4-Bromofluorobenzene (Surr)  | 94        |           | 70 - 130 | 07/25/13 12:19 | 1        |         |
| Dibromofluoromethane (Surr)  | 105       |           | 70 - 130 | 07/25/13 12:19 | 1        |         |
| Toluene-d8 (Surr)            | 98        |           | 70 - 130 | 07/25/13 12:19 | 1        |         |

TestAmerica Nashville

# QC Sample Results

Client: Small Business Group Inc.  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-31456-1

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

Lab Sample ID: MB 490-95239/7

Matrix: Solid

Analysis Batch: 95239

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte        | MB MB  |           | RL    | MDL    | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|-------|--------|-------|---|----------|----------------|---------|
|                | Result | Qualifier |       |        |       |   |          |                |         |
| Benzene        | ND     |           | 0.100 | 0.0335 | mg/Kg |   |          | 07/25/13 12:49 | 1       |
| Ethylbenzene   | ND     |           | 0.100 | 0.0335 | mg/Kg |   |          | 07/25/13 12:49 | 1       |
| Naphthalene    | ND     |           | 0.250 | 0.0850 | mg/Kg |   |          | 07/25/13 12:49 | 1       |
| Toluene        | ND     |           | 0.100 | 0.0370 | mg/Kg |   |          | 07/25/13 12:49 | 1       |
| Xylenes, Total | ND     |           | 0.250 | 0.0335 | mg/Kg |   |          | 07/25/13 12:49 | 1       |

| Surrogate                    | MB MB     |           | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
|                              | %Recovery | Qualifier |          |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 100       |           | 70 - 130 |          | 07/25/13 12:49 | 1       |
| 4-Bromofluorobenzene (Surr)  | 92        |           | 70 - 130 |          | 07/25/13 12:49 | 1       |
| Dibromofluoromethane (Surr)  | 105       |           | 70 - 130 |          | 07/25/13 12:49 | 1       |
| Toluene-d8 (Surr)            | 96        |           | 70 - 130 |          | 07/25/13 12:49 | 1       |

Lab Sample ID: LCS 490-95239/3

Matrix: Solid

Analysis Batch: 95239

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte        | Spike Added | LCS LCS |           | Unit  | D | %Rec | %Rec. Limits |
|----------------|-------------|---------|-----------|-------|---|------|--------------|
|                |             | Result  | Qualifier |       |   |      |              |
| Benzene        | 0.0500      | 0.04801 |           | mg/Kg |   | 96   | 75 - 127     |
| Ethylbenzene   | 0.0500      | 0.04306 |           | mg/Kg |   | 86   | 80 - 134     |
| Naphthalene    | 0.0500      | 0.04559 |           | mg/Kg |   | 91   | 69 - 150     |
| Toluene        | 0.0500      | 0.04432 |           | mg/Kg |   | 89   | 80 - 132     |
| Xylenes, Total | 0.150       | 0.1304  |           | mg/Kg |   | 87   | 80 - 137     |

| Surrogate                    | LCS LCS   |           | Limits   |
|------------------------------|-----------|-----------|----------|
|                              | %Recovery | Qualifier |          |
| 1,2-Dichloroethane-d4 (Surr) | 97        |           | 70 - 130 |
| 4-Bromofluorobenzene (Surr)  | 89        |           | 70 - 130 |
| Dibromofluoromethane (Surr)  | 101       |           | 70 - 130 |
| Toluene-d8 (Surr)            | 96        |           | 70 - 130 |

Lab Sample ID: LCSD 490-95239/4

Matrix: Solid

Analysis Batch: 95239

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte        | Spike Added | LCSD LCSD |           | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------------|-------------|-----------|-----------|-------|---|------|--------------|-----|-----------|
|                |             | Result    | Qualifier |       |   |      |              |     |           |
| Benzene        | 0.0500      | 0.04818   |           | mg/Kg |   | 96   | 75 - 127     | 0   | 50        |
| Ethylbenzene   | 0.0500      | 0.04281   |           | mg/Kg |   | 86   | 80 - 134     | 1   | 50        |
| Naphthalene    | 0.0500      | 0.04583   |           | mg/Kg |   | 92   | 69 - 150     | 1   | 50        |
| Toluene        | 0.0500      | 0.04450   |           | mg/Kg |   | 89   | 80 - 132     | 0   | 50        |
| Xylenes, Total | 0.150       | 0.1302    |           | mg/Kg |   | 87   | 80 - 137     | 0   | 50        |

| Surrogate                    | LCSD LCSD |           | Limits   |
|------------------------------|-----------|-----------|----------|
|                              | %Recovery | Qualifier |          |
| 1,2-Dichloroethane-d4 (Surr) | 98        |           | 70 - 130 |
| 4-Bromofluorobenzene (Surr)  | 88        |           | 70 - 130 |
| Dibromofluoromethane (Surr)  | 102       |           | 70 - 130 |
| Toluene-d8 (Surr)            | 96        |           | 70 - 130 |

TestAmerica Nashville

# QC Sample Results

Client: Small Business Group Inc.  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-31456-1

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

Lab Sample ID: MB 490-94906/1-A  
Matrix: Solid  
Analysis Batch: 95241

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 94906

| Analyte                | MB MB  |           | RL     | MDL     | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|--------|---------|-------|---|----------------|----------------|---------|
|                        | Result | Qualifier |        |         |       |   |                |                |         |
| Acenaphthene           | ND     |           | 0.0670 | 0.0100  | mg/Kg |   | 07/24/13 09:08 | 07/25/13 18:47 | 1       |
| Acenaphthylene         | ND     |           | 0.0670 | 0.00900 | mg/Kg |   | 07/24/13 09:08 | 07/25/13 18:47 | 1       |
| Anthracene             | ND     |           | 0.0670 | 0.00900 | mg/Kg |   | 07/24/13 09:08 | 07/25/13 18:47 | 1       |
| Benzo[a]anthracene     | ND     |           | 0.0670 | 0.0150  | mg/Kg |   | 07/24/13 09:08 | 07/25/13 18:47 | 1       |
| Benzo[a]pyrene         | ND     |           | 0.0670 | 0.0120  | mg/Kg |   | 07/24/13 09:08 | 07/25/13 18:47 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 0.0670 | 0.0120  | mg/Kg |   | 07/24/13 09:08 | 07/25/13 18:47 | 1       |
| Benzo[g,h,i]perylene   | ND     |           | 0.0670 | 0.00900 | mg/Kg |   | 07/24/13 09:08 | 07/25/13 18:47 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 0.0670 | 0.0140  | mg/Kg |   | 07/24/13 09:08 | 07/25/13 18:47 | 1       |
| 1-Methylnaphthalene    | ND     |           | 0.0670 | 0.0140  | mg/Kg |   | 07/24/13 09:08 | 07/25/13 18:47 | 1       |
| Pyrene                 | ND     |           | 0.0670 | 0.0120  | mg/Kg |   | 07/24/13 09:08 | 07/25/13 18:47 | 1       |
| Phenanthrene           | ND     |           | 0.0670 | 0.00900 | mg/Kg |   | 07/24/13 09:08 | 07/25/13 18:47 | 1       |
| Chrysene               | ND     |           | 0.0670 | 0.00900 | mg/Kg |   | 07/24/13 09:08 | 07/25/13 18:47 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 0.0670 | 0.00700 | mg/Kg |   | 07/24/13 09:08 | 07/25/13 18:47 | 1       |
| Fluoranthene           | ND     |           | 0.0670 | 0.00900 | mg/Kg |   | 07/24/13 09:08 | 07/25/13 18:47 | 1       |
| Fluorene               | ND     |           | 0.0670 | 0.0120  | mg/Kg |   | 07/24/13 09:08 | 07/25/13 18:47 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 0.0670 | 0.0100  | mg/Kg |   | 07/24/13 09:08 | 07/25/13 18:47 | 1       |
| Naphthalene            | ND     |           | 0.0670 | 0.00900 | mg/Kg |   | 07/24/13 09:08 | 07/25/13 18:47 | 1       |
| 2-Methylnaphthalene    | ND     |           | 0.0670 | 0.0160  | mg/Kg |   | 07/24/13 09:08 | 07/25/13 18:47 | 1       |

| Surrogate               | MB MB     |           | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
|                         | %Recovery | Qualifier |          |                |                |         |
| 2-Fluorobiphenyl (Surr) | 59        |           | 29 - 120 | 07/24/13 09:08 | 07/25/13 18:47 | 1       |
| Terphenyl-d14 (Surr)    | 71        |           | 13 - 120 | 07/24/13 09:08 | 07/25/13 18:47 | 1       |
| Nitrobenzene-d5 (Surr)  | 62        |           | 27 - 120 | 07/24/13 09:08 | 07/25/13 18:47 | 1       |

Lab Sample ID: LCS 490-94906/2-A  
Matrix: Solid  
Analysis Batch: 95241

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 94906

| Analyte                | Spike Added | LCS LCS |           | Unit  | D | %Rec | %Rec. Limits |
|------------------------|-------------|---------|-----------|-------|---|------|--------------|
|                        |             | Result  | Qualifier |       |   |      |              |
| Acenaphthylene         | 1.67        | 1.566   |           | mg/Kg |   | 94   | 38 - 120     |
| Anthracene             | 1.67        | 1.789   |           | mg/Kg |   | 107  | 46 - 124     |
| Benzo[a]anthracene     | 1.67        | 1.676   |           | mg/Kg |   | 101  | 45 - 120     |
| Benzo[a]pyrene         | 1.67        | 1.667   |           | mg/Kg |   | 100  | 45 - 120     |
| Benzo[b]fluoranthene   | 1.67        | 1.744   |           | mg/Kg |   | 105  | 42 - 120     |
| Benzo[g,h,i]perylene   | 1.67        | 1.696   |           | mg/Kg |   | 102  | 38 - 120     |
| Benzo[k]fluoranthene   | 1.67        | 1.669   |           | mg/Kg |   | 100  | 42 - 120     |
| 1-Methylnaphthalene    | 1.67        | 1.479   |           | mg/Kg |   | 89   | 32 - 120     |
| Pyrene                 | 1.67        | 1.649   |           | mg/Kg |   | 99   | 43 - 120     |
| Phenanthrene           | 1.67        | 1.722   |           | mg/Kg |   | 103  | 45 - 120     |
| Chrysene               | 1.67        | 1.749   |           | mg/Kg |   | 105  | 43 - 120     |
| Dibenz(a,h)anthracene  | 1.67        | 1.695   |           | mg/Kg |   | 102  | 32 - 128     |
| Fluoranthene           | 1.67        | 1.748   |           | mg/Kg |   | 105  | 46 - 120     |
| Fluorene               | 1.67        | 1.612   |           | mg/Kg |   | 97   | 42 - 120     |
| Indeno[1,2,3-cd]pyrene | 1.67        | 1.582   |           | mg/Kg |   | 95   | 41 - 121     |
| Naphthalene            | 1.67        | 1.456   |           | mg/Kg |   | 87   | 32 - 120     |
| 2-Methylnaphthalene    | 1.67        | 1.478   |           | mg/Kg |   | 89   | 28 - 120     |

TestAmerica Nashville

## QC Sample Results

Client: Small Business Group Inc.  
 Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-31456-1

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

Lab Sample ID: LCS 490-94906/2-A  
 Matrix: Solid  
 Analysis Batch: 95241

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 94906

| Surrogate               | LCS       | LCS       | Limits   |
|-------------------------|-----------|-----------|----------|
|                         | %Recovery | Qualifier |          |
| 2-Fluorobiphenyl (Surr) | 71        |           | 29 - 120 |
| Terphenyl-d14 (Surr)    | 84        |           | 13 - 120 |
| Nitrobenzene-d5 (Surr)  | 65        |           | 27 - 120 |

### Method: Moisture - Percent Moisture

Lab Sample ID: 490-31440-C-1 DU  
 Matrix: Solid  
 Analysis Batch: 94800

Client Sample ID: Duplicate  
 Prep Type: Total/NA

| Analyte        | Sample | Sample    | DU     | DU        | Unit | D | RPD | Limit |
|----------------|--------|-----------|--------|-----------|------|---|-----|-------|
|                | Result | Qualifier | Result | Qualifier |      |   |     |       |
| Percent Solids | 90     |           | 89     |           | %    |   | 1   | 20    |



## QC Association Summary

Client: Small Business Group Inc.  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-31456-1

### GC/MS VOA

#### Prep Batch: 94750

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 490-31306-C-2-D MS  | Matrix Spike           | Total/NA  | Solid  | 5030B  |            |
| 490-31306-C-2-E MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5030B  |            |

#### Prep Batch: 94788

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 490-31456-1   | 342 Ash-2        | Total/NA  | Solid  | 5035   |            |

#### Prep Batch: 94789

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 490-31456-2   | 145 Laurel Bay   | Total/NA  | Solid  | 5035   |            |
| 490-31456-3   | 208 Balsam       | Total/NA  | Solid  | 5035   |            |
| 490-31456-4   | 202 Balsam       | Total/NA  | Solid  | 5035   |            |

#### Analysis Batch: 94987

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 490-31306-C-2-D MS  | Matrix Spike           | Total/NA  | Solid  | 8260B  | 94750      |
| 490-31306-C-2-E MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8260B  | 94750      |
| 490-31456-3         | 208 Balsam             | Total/NA  | Solid  | 8260B  | 94789      |
| 490-31456-4         | 202 Balsam             | Total/NA  | Solid  | 8260B  | 94789      |
| LCS 490-94987/3     | Lab Control Sample     | Total/NA  | Solid  | 8260B  |            |
| LCSD 490-94987/4    | Lab Control Sample Dup | Total/NA  | Solid  | 8260B  |            |
| MB 490-94987/6      | Method Blank           | Total/NA  | Solid  | 8260B  |            |

#### Analysis Batch: 95239

| Lab Sample ID    | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------------|-----------|--------|--------|------------|
| 490-31456-1      | 342 Ash-2              | Total/NA  | Solid  | 8260B  | 94788      |
| 490-31456-2      | 145 Laurel Bay         | Total/NA  | Solid  | 8260B  | 94789      |
| LCS 490-95239/3  | Lab Control Sample     | Total/NA  | Solid  | 8260B  |            |
| LCSD 490-95239/4 | Lab Control Sample Dup | Total/NA  | Solid  | 8260B  |            |
| MB 490-95239/6   | Method Blank           | Total/NA  | Solid  | 8260B  |            |
| MB 490-95239/7   | Method Blank           | Total/NA  | Solid  | 8260B  |            |

### GC/MS Semi VOA

#### Prep Batch: 94906

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 490-31456-1       | 342 Ash-2          | Total/NA  | Solid  | 3550C  |            |
| 490-31456-2       | 145 Laurel Bay     | Total/NA  | Solid  | 3550C  |            |
| 490-31456-3       | 208 Balsam         | Total/NA  | Solid  | 3550C  |            |
| 490-31456-4       | 202 Balsam         | Total/NA  | Solid  | 3550C  |            |
| LCS 490-94906/2-A | Lab Control Sample | Total/NA  | Solid  | 3550C  |            |
| MB 490-94906/1-A  | Method Blank       | Total/NA  | Solid  | 3550C  |            |

#### Analysis Batch: 95241

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 490-31456-1       | 342 Ash-2          | Total/NA  | Solid  | 8270D  | 94906      |
| 490-31456-2       | 145 Laurel Bay     | Total/NA  | Solid  | 8270D  | 94906      |
| 490-31456-3       | 208 Balsam         | Total/NA  | Solid  | 8270D  | 94906      |
| LCS 490-94906/2-A | Lab Control Sample | Total/NA  | Solid  | 8270D  | 94906      |
| MB 490-94906/1-A  | Method Blank       | Total/NA  | Solid  | 8270D  | 94906      |

TestAmerica Nashville



# QC Association Summary

Client: Small Business Group Inc.  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-31456-1

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- 2
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## GC/MS Semi VOA (Continued)

### Analysis Batch: 95539

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 490-31456-1   | 342 Ash-2        | Total/NA  | Solid  | 8270D  | 94906      |
| 490-31456-1   | 342 Ash-2        | Total/NA  | Solid  | 8270D  | 94906      |
| 490-31456-4   | 202 Balsam       | Total/NA  | Solid  | 8270D  | 94906      |

## General Chemistry

### Analysis Batch: 94800

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|------------------|------------------|-----------|--------|----------|------------|
| 490-31440-C-1 DU | Duplicate        | Total/NA  | Solid  | Moisture |            |
| 490-31456-1      | 342 Ash-2        | Total/NA  | Solid  | Moisture |            |
| 490-31456-2      | 145 Laurel Bay   | Total/NA  | Solid  | Moisture |            |
| 490-31456-3      | 208 Balsam       | Total/NA  | Solid  | Moisture |            |
| 490-31456-4      | 202 Balsam       | Total/NA  | Solid  | Moisture |            |

# Lab Chronicle

Client: Small Business Group Inc.  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-31456-1

## Client Sample ID: 342 Ash-2

Lab Sample ID: 490-31456-1

Date Collected: 07/15/13 15:30

Matrix: Solid

Date Received: 07/23/13 08:15

Percent Solids: 72.3

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 94788        | 07/23/13 14:57       | RRS     | TAL NSH |
| Total/NA  | Analysis   | 8260B        |     | 1               | 95239        | 07/25/13 17:12       | KKK     | TAL NSH |
| Total/NA  | Prep       | 3550C        |     |                 | 94906        | 07/24/13 09:08       | JLP     | TAL NSH |
| Total/NA  | Analysis   | 8270D        |     | 1               | 95241        | 07/25/13 19:43       | JLS     | TAL NSH |
| Total/NA  | Analysis   | 8270D        |     | 5               | 95539        | 07/26/13 18:51       | JLS     | TAL NSH |
| Total/NA  | Analysis   | 8270D        |     | 25              | 95539        | 07/26/13 19:18       | JLS     | TAL NSH |
| Total/NA  | Analysis   | Moisture     |     | 1               | 94800        | 07/23/13 15:21       | CEC     | TAL NSH |

## Client Sample ID: 145 Laurel Bay

Lab Sample ID: 490-31456-2

Date Collected: 07/16/13 14:00

Matrix: Solid

Date Received: 07/23/13 08:15

Percent Solids: 77.2

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 94789        | 07/23/13 14:59       | RRS     | TAL NSH |
| Total/NA  | Analysis   | 8260B        |     | 1               | 95239        | 07/25/13 16:13       | KKK     | TAL NSH |
| Total/NA  | Prep       | 3550C        |     |                 | 94906        | 07/24/13 09:08       | JLP     | TAL NSH |
| Total/NA  | Analysis   | 8270D        |     | 1               | 95241        | 07/25/13 21:07       | JLS     | TAL NSH |
| Total/NA  | Analysis   | Moisture     |     | 1               | 94800        | 07/23/13 15:21       | CEC     | TAL NSH |

## Client Sample ID: 208 Balsam

Lab Sample ID: 490-31456-3

Date Collected: 07/17/13 14:15

Matrix: Solid

Date Received: 07/23/13 08:15

Percent Solids: 77.8

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 94789        | 07/23/13 14:59       | RRS     | TAL NSH |
| Total/NA  | Analysis   | 8260B        |     | 1               | 94987        | 07/24/13 21:23       | KKK     | TAL NSH |
| Total/NA  | Prep       | 3550C        |     |                 | 94906        | 07/24/13 09:08       | JLP     | TAL NSH |
| Total/NA  | Analysis   | 8270D        |     | 1               | 95241        | 07/25/13 21:35       | JLS     | TAL NSH |
| Total/NA  | Analysis   | Moisture     |     | 1               | 94800        | 07/23/13 15:21       | CEC     | TAL NSH |

## Client Sample ID: 202 Balsam

Lab Sample ID: 490-31456-4

Date Collected: 07/18/13 14:15

Matrix: Solid

Date Received: 07/23/13 08:15

Percent Solids: 85.7

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 94789        | 07/23/13 14:59       | RRS     | TAL NSH |
| Total/NA  | Analysis   | 8260B        |     | 1               | 94987        | 07/24/13 21:52       | KKK     | TAL NSH |
| Total/NA  | Prep       | 3550C        |     |                 | 94906        | 07/24/13 09:08       | JLP     | TAL NSH |
| Total/NA  | Analysis   | 8270D        |     | 1               | 95539        | 07/26/13 16:58       | JLS     | TAL NSH |
| Total/NA  | Analysis   | Moisture     |     | 1               | 94800        | 07/23/13 15:21       | CEC     | TAL NSH |

### Laboratory References:

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

TestAmerica Nashville



# Method Summary

Client: Small Business Group Inc.  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-31456-1

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

**Protocol References:**

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

**Laboratory References:**

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



## Certification Summary

Client: Small Business Group Inc.  
 Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-31456-1

### Laboratory: TestAmerica Nashville

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

| Authority           | Program       | EPA Region | Certification ID | Expiration Date |
|---------------------|---------------|------------|------------------|-----------------|
|                     | ACIL          |            | 393              | 10-30-13        |
| A2LA                | ISO/IEC 17025 |            | 0453.07          | 12-31-13        |
| Alaska (UST)        | State Program | 10         | UST-087          | 07-24-14        |
| Arizona             | State Program | 9          | AZ0473           | 05-05-14        |
| Arkansas DEQ        | State Program | 6          | 88-0737          | 04-25-14        |
| California          | NELAP         | 9          | 1168CA           | 10-31-13        |
| Connecticut         | State Program | 1          | PH-0220          | 12-31-13        |
| Florida             | NELAP         | 4          | E87358           | 06-30-14        |
| Illinois            | NELAP         | 5          | 200010           | 12-09-13        |
| Iowa                | State Program | 7          | 131              | 05-01-14        |
| Kansas              | NELAP         | 7          | E-10229          | 10-31-13        |
| Kentucky (UST)      | State Program | 4          | 19               | 06-30-14        |
| Louisiana           | NELAP         | 6          | 30613            | 06-30-14        |
| Maryland            | State Program | 3          | 316              | 03-31-14        |
| Massachusetts       | State Program | 1          | M-TN032          | 06-30-14        |
| Minnesota           | NELAP         | 5          | 047-999-345      | 12-31-13        |
| Mississippi         | State Program | 4          | N/A              | 06-30-14        |
| Montana (UST)       | State Program | 8          | NA               | 01-01-15        |
| Nevada              | State Program | 9          | TN00032          | 07-31-13 *      |
| New Hampshire       | NELAP         | 1          | 2963             | 10-10-13        |
| New Jersey          | NELAP         | 2          | TN965            | 06-30-14        |
| New York            | NELAP         | 2          | 11342            | 04-01-14        |
| North Carolina DENR | State Program | 4          | 387              | 12-31-13        |
| North Dakota        | State Program | 8          | R-146            | 06-30-14        |
| Ohio VAP            | State Program | 5          | CL0033           | 01-19-14        |
| Oklahoma            | State Program | 6          | 9412             | 08-31-13        |
| Oregon              | NELAP         | 10         | TN200001         | 04-29-14        |
| Pennsylvania        | NELAP         | 3          | 68-00585         | 06-30-14        |
| Rhode Island        | State Program | 1          | LAO00268         | 12-30-13        |
| South Carolina      | State Program | 4          | 84009 (001)      | 02-28-14        |
| South Carolina      | State Program | 4          | 84009 (002)      | 02-23-14        |
| Tennessee           | State Program | 4          | 2008             | 02-23-14        |
| Texas               | NELAP         | 6          | T104704077-09-TX | 08-31-13        |
| USDA                | Federal       |            | S-48469          | 11-02-13        |
| Virginia            | NELAP         | 3          | 460152           | 06-14-14        |
| Washington          | State Program | 10         | C789             | 07-19-14        |
| West Virginia DEP   | State Program | 3          | 219              | 02-28-14        |
| Wisconsin           | State Program | 5          | 998020430        | 08-31-13        |
| Wyoming (UST)       | A2LA          | 8          | 453.07           | 12-31-13        |

\* Expired certification is currently pending renewal and is considered valid.



## COOLER RECEIPT FORM



490-31456 Chain of Custody

Cooler Received/Opened On : 07/23/13 @ 0815

Tracking # 9590 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun : 17960357

1. Temperature of rep. sample or temp blank when opened: 2.7 Degrees Celsius
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO  NA
4. Were custody seals on outside of cooler?  YES...NO...NA  
If yes, how many and where: 1 Front / 1 Back
5. Were the seals intact, signed, and dated correctly?  YES...NO...NA
6. Were custody papers inside cooler?  YES...NO...NA

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

7. Were custody seals on containers: YES  NO and Intact YES NO  NA  
Were these signed and dated correctly? YES...NO... NA
8. Packing mat'l used?  Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
9. Cooling process:  Ice Ice-pack Ice (direct contact) Dry Ice Other None
10. Did all containers arrive in good condition (unbroken)?  YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?  YES...NO...NA
12. Did all container labels and tags agree with custody papers?  YES...NO...NA
- 13a. Were VOA vials received?  YES...NO...NA  
b. Was there any observable headspace present in any VOA vial? YES... NO...NA
14. Was there a Trip Blank in this cooler? YES... NO...NA If multiple coolers, sequence # NA

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

- 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO... NA  
b. Did the bottle labels indicate that the correct preservatives were used  YES...NO...NA
  16. Was residual chlorine present? YES...NO... NA
- I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) ELA
17. Were custody papers properly filled out (ink, signed, etc)?  YES...NO...NA
  18. Did you sign the custody papers in the appropriate place?  YES...NO...NA
  19. Were correct containers used for the analysis requested?  YES...NO...NA
  20. Was sufficient amount of sample sent in each container?  YES...NO...NA

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

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

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





## Login Sample Receipt Checklist

Client: Small Business Group Inc.

Job Number: 490-31456-1

**Login Number: 31456**

**List Source: TestAmerica Nashville**

**List Number: 1**

**Creator: Abernathy, Eric**

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



ATTACHMENT A



# NON-HAZARDOUS MANIFEST

|   |   |  |  |                                   |                   |            |
|---|---|--|--|-----------------------------------|-------------------|------------|
| <b>NON-HAZARDOUS MANIFEST</b>   | 1. Generator's US EPA ID No.                          | Manifest Doc No.                             | 2. Page 1 of<br>1                          |                                   |                   |            |
| 3. Generator's Mailing Address:<br>MCAS BEAUFORT<br>LAUREL BAY HOUSING<br>BEAUFORT, SC 29904  | Generator's Site Address (If different than mailing): |  | A. Manifest Number<br><b>WMNA</b> 01519100 |                                   |                   |            |
| 4. Generator's Phone      843-879-0411  |   |  | B. State Generator's ID                    |                                   |                   |            |
| 5. Transporter 1 Company Name<br><i>EEG Inc</i><br><i>10179 Hwy 78</i><br><i>Rockson SC 29456</i>   | 6. US EPA ID Number                                   | C. State Transporter's ID                    |  |                                   |                   |            |
| 7. Transporter 2 Company Name   | 8. US EPA ID Number                                   | D. Transporter's Phone <i>(843) 879-0400</i> |  |                                   |                   |            |
| 9. Designated Facility Name and Site Address<br>HICKORY HILL LANDFILL<br>2621 LOW COUNTRY DRIVE<br>RIDGELAND, SC 29936  | 10. US EPA ID Number                                  | E. State Transporter's ID                    |  |                                   |                   |            |
|   |   | F. Transporter's Phone                       |  |                                   |                   |            |
|   |   | G. State Facility ID                         |  |                                   |                   |            |
|   |   | H. State Facility Phone      843-987-4643    |  |                                   |                   |            |
| 11. Description of Waste Materials  | 12. Containers  |  | 13. Total Quantity                         | 14. Unit Wt./Vol.                 | I. Misc. Comments |            |
|   | No.   | Type   |  |                                   |                   |            |
| a. HEATING OIL TANK FILLED WITH SAND<br><br>WM Profile #    102655SC  | 1   | 20y  | 9.90                                       | TON                               | 715025            |            |
| b.<br><br>WM Profile #  |   |  |  |                                   |                   |            |
| c.<br><br>WM Profile #  |   |  |  |                                   |                   |            |
| d.<br><br>WM Profile #  |   |  |  |                                   |                   |            |
| J. Additional Descriptions for Materials Listed Above   | K. Disposal Location                                  |  |  |                                   |                   |            |
|   | Cell  |  | Level                                      |                                   |                   |            |
|   | Grid  |  |  |                                   |                   |            |
| 15. Special Handling Instructions and Additional Information<br><i>LIST'S FROM: 2) 202 Balsam ✓ 4) 802 AZALEA ✓ 6) 694 ABELIA ✓</i><br><i>D 208 Balsam ✓ 3) 1402 Eagle ✓ 5) 872 COBIA ✓</i>   |   |  |  |                                   |                   |            |
| Purchase Order #  | EMERGENCY CONTACT / PHONE NO.:                        |  |  |                                   |                   |            |
| 16. GENERATOR'S CERTIFICATE:<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 Name<br><i>Timothy Whaley</i>   | Signature "On behalf of"<br><i>Timothy Whaley</i>     |  |  | Month<br>8                        | Day<br>19         | Year<br>13 |
| 17. Transporter 1 Acknowledgement of Receipt of Materials   | Printed Name<br><i>Prath Shaw</i>                     |  |  | Signature<br><i>Prath Shaw</i>    |                   |            |
|   |   |  |  | Month<br>8                        | Day<br>14         | Year<br>13 |
| 18. Transporter 2 Acknowledgement of Receipt of Materials   | Printed Name<br><i>JAMES BALDWIN</i>                  |  |  | Signature<br><i>James Baldwin</i> |                   |            |
|   |   |  |  | Month<br>8                        | Day<br>14         | Year<br>13 |
| 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 Name<br><i>Toni Colfield</i>  | Signature<br><i>Toni Colfield</i>                     |  |  | Month<br>8                        | Day<br>14         | Year<br>13 |

GENERATOR  
TRANSPORTER  
FACILITY

**Appendix C**  
**Regulatory Correspondence**



Catherine E. Heigel, Director

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

July 1, 2015

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

RE: No Further Action  
Laurel Bay Underground Storage Tank Assessment Reports for:  
*See attached sheet*

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received the referenced Underground Storage Tanks (USTs) 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 and agrees there is no indication of soil or groundwater contamination on these properties, and therefore no further investigation is required at this time.

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

If you have any questions, please contact me at [kriegkm@dhec.sc.gov](mailto:kriegkm@dhec.sc.gov) or 803-898-0255.

Sincerely,

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

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



Catherine E. Heigel, Director

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

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

**Laurel Bay Underground Storage Tank Assessment Reports for: (153 addresses/161 tanks)**

|                  |                       |
|------------------|-----------------------|
| 111 Birch        | 363 Aspen             |
| 123 Banyan       | 364 Aspen             |
| 131 Banyan       | 366 Aspen             |
| 134 Banyan       | 369 Aspen             |
| 145 Laurel Bay   | 373 Aspen             |
| 150 Laurel Bay   | 381 Aspen             |
| 153 Laurel Bay   | 401 Elderberry        |
| 154 Laurel Bay   | 402 Elderberry        |
| 155 Laurel Bay   | 404 Elderberry        |
| 200 Balsam       | 410 Elderberry        |
| 202 Balsam       | 420 Elderberry        |
| 203 Balsam       | 424 Elderberry        |
| 208 Balsam       | 435 Elderberry Tank 3 |
| 210 Balsam       | 452 Elderberry        |
| 211 Balsam       | 460 Elderberry        |
| 220 Cypress      | 465 Dogwood           |
| 222 Cypress      | 477 Laurel Bay        |
| 223 Cypress      | 487 Laurel Bay        |
| 252 Beech Tank 2 | 513 Laurel Bay        |
| 271 Beech Tank 1 | 519 Laurel Bay        |
| 271 Beech Tank 2 | 524 Laurel Bay        |
| 284 Birch Tank 1 | 535 Laurel Bay        |
| 284 Birch Tank 2 | 553 Dahlia            |
| 308 Ash          | 590 Aster             |
| 311 Ash          | 591 Aster             |
| 312 Ash          | 610 Dahlia            |
| 317 Ash          | 612 Dahlia            |
| 318 Ash          | 628 Dahlia            |
| 337 Ash          | 636 Dahlia            |
| 351 Ash Tank 1   | 637 Dahlia Tank 1     |
| 351 Ash Tank 2   | 637 Dahlia Tank 2     |
| 355 Ash Tank 1   | 641 Dahlia            |
| 355 Ash Tank 2   | 642 Dahlia Tank 1     |
| 360 Aspen        | 642 Dahlia Tank 2     |

**Laurel Bay Underground Storage Tank Assessment Reports for: (153 addresses/161 tanks) cont.**

|                |                      |
|----------------|----------------------|
| 655 Camellia   | 920 Albacore         |
| 662 Camellia   | 922 Barracuda Tank 1 |
| 683 Camellia   | 922 Barracuda Tank 2 |
| 684 Camellia   | 924 Albacore         |
| 689 Abelia     | 925 Albacore         |
| 694 Abelia     | 926 Albacore         |
| 695 Abelia     | 930 Albacore         |
| 741 Blue Bell  | 931 Albacore         |
| 742 Blue Bell  | 933 Albacore         |
| 755 Althea     | 936 Albacore         |
| 757 Althea     | 938 Albacore         |
| 776 Laurel Bay | 939 Albacore         |
| 777 Azalea     | 940 Albacore         |
| 779 Laurel Bay | 1010 Foxglove        |
| 781 Laurel Bay | 1066 Gardenia        |
| 802 Azalea     | 1068 Gardenia        |
| 816 Azalea     | 1071 Heather Tank 2  |
| 822 Azalea     | 1100 Iris Tank 2     |
| 823 Azalea     | 1128 Iris            |
| 825 Azalea     | 1178 Bobwhite        |
| 828 Azalea     | 1204 Cardinal        |
| 837 Azalea     | 1208 Cardinal        |
| 851 Dolphin    | 1209 Cardinal        |
| 856 Dolphin    | 1210 Cardinal        |
| 857 Dolphin    | 1215 Cardinal        |
| 861 Dolphin    | 1216 Cardinal        |
| 864 Dolphin    | 1217 Cardinal Tank 1 |
| 868 Dolphin    | 1217 Cardinal Tank 2 |
| 872 Dolphin    | 1233 Dove            |
| 879 Cobia      | 1244 Dove            |
| 886 Cobia      | 1250 Dove            |
| 888 Cobia      | 1252 Dove            |
| 889 Cobia      | 1254 Dove            |
| 901 Barracuda  | 1256 Dove            |
| 902 Barracuda  | 1258 Dove            |
| 903 Barracuda  | 1263 Dove            |
| 904 Barracuda  | 1269 Dove            |
| 909 Barracuda  | 1276 Dove            |
| 910 Barracuda  | 1283 Dove            |
| 914 Barracuda  | 1285 Dove            |
| 915 Barracuda  | 1288 Eagle           |

**Laurel Bay Underground Storage Tank Assessment Reports for: (153 addresses/161 tanks) cont.**

|                |                |
|----------------|----------------|
| 1296 Eagle     | 1330 Albatross |
| 1307 Eagle     | 1331 Albatross |
| 1321 Albatross | 1333 Albatross |
| 1322 Albatross | 1334 Albatross |
| 1327 Albatross | 1335 Albatross |
| 1328 Albatross |                |