

**SUMMARY REPORT
558 WEST CARDINAL LANE (FORMERLY 1453 WEST CARDINAL LANE)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC**

**Revision: 0
Prepared for:**

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

and



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

JUNE 2021

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Prepared by:



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

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List of Acronyms

bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CTO	Contract Task Order
COPC	constituents of potential concern
ft	feet
IDIQ	Indefinite Delivery, Indefinite Quantity
IGWA	Initial Groundwater Assessment
JV	Joint Venture
LBMH	Laurel Bay Military Housing
MCAS	Marine Corps Air Station
NAVFAC Mid-Lant	Naval Facilities Engineering Command Mid-Atlantic
NFA	No Further Action
PAH	polynuclear aromatic hydrocarbon
PPV	Public-Private Venture
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
UFP SAP	Uniform Federal Policy Sampling and Analysis Plan
USEPA	United States Environmental Protection Agency
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 558 West Cardinal Lane (Formerly 1453 West Cardinal Lane). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

1.1 Background Information

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

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

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

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

In 2015, the Public-Private Venture (PPV) responsible for the management of the residential area at LBMH initiated a plan to replace outdated homes in the LBMH area. The plan includes the demolition of existing homes and subsequent construction of new homes. In discussions with the PPV it was revealed that construction of the new homes could occur on portions of the property where the USTs were formerly located. In response to this plan, MCAS Beaufort assessed subsurface soil gas concentrations in the area of the former USTs at select properties within the demolition areas. The subject property of this report is one of the properties within the planned demolition area which was selected for a soil gas evaluation. It should be noted that the house at the subject property has since been demolished and this property is an empty lot. There are no current plans for construction in this 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. A multi-media investigation selection process tree, applicable to the LBMH UST investigations, is presented as Appendix A.

In accordance with the multi-media investigation selection process (Appendix A), groundwater analytical results are typically compared to the site specific groundwater vapor intrusion screening levels (VISLs) to evaluate the potential for vapor intrusion into existing homes and the necessity for an investigation associated with this media. However, as previously stated, this property did not have an existing home and instead was among those selected for an evaluation of soil gas because of the planned demolition and construction activities.

2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 558 West Cardinal Lane (Formerly 1453 West Cardinal Lane). The sampling activities at 558 West Cardinal Lane (Formerly 1453 West Cardinal Lane) comprised a soil investigation, IGWA sampling, and a soil gas investigation. Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1453 West Cardinal Lane* (MCAS Beaufort, 2009). The UST Assessment Report is provided in Appendix B. Details regarding the IGWA sampling activities at this site are provided in the *Initial Groundwater Investigation Report – May and June 2015* (Resolution Consultants, 2015). The laboratory report that includes the pertinent IGWA analytical results for this site is presented in Appendix C. Details regarding the vapor intrusion investigation at this site are provided in the *Vapor Intrusion Report – July 2015, January 2016, and May 2016* (Resolution Consultants, 2017). The laboratory report that includes the pertinent soil gas analytical results for this site is presented in Appendix D.

2.1 UST Removal and Soil Sampling

On August 6, 2009, a single 280 gallon heating oil UST was removed from the front landscaped area at 558 West Cardinal Lane (Formerly 1453 West Cardinal Lane). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed 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 6'6" 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 558 West Cardinal Lane (Formerly 1453 West Cardinal Lane) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In a letter dated April 7, 2015, SCDHEC requested an IGWA for 558 West Cardinal Lane (Formerly 1453 West Cardinal Lane) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letter is provided in Appendix E.

2.3 Groundwater Sampling

On June 23, 2015, a temporary monitoring well was installed at 558 West Cardinal Lane (Formerly 1453 West Cardinal Lane), in accordance with the South Carolina Well Standards and Regulations (R.61-71.H-I, updated June 24, 2016). In order to provide data that can be used to determine whether COPCs are migrating to underlying groundwater, the monitoring well was placed in the same general location as the former heating oil UST. The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). Further details are provided in the *Initial Groundwater Investigation Report – May and June 2015* (Resolution Consultants, 2015).

The sampling strategy for this phase of the investigation required a one-time sampling event of the temporarily installed monitoring well. Following well installation and development, groundwater samples were collected using low-flow methods and shipped to an offsite laboratory for analysis of the petroleum COPCs. Upon completion of groundwater sampling, the temporary well was abandoned in accordance with the South Carolina Well Standards and Regulations R.61-71 (SCDHEC, 2016). Field forms are provided in the *Initial Groundwater Investigation Report – May and June 2015* (Resolution Consultants, 2015).

2.4 Groundwater Analytical Results

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

The groundwater results collected from 558 West Cardinal Lane (Formerly 1453 West Cardinal Lane) were less than the SCDHEC RBSLs and the site specific groundwater VISLs (Table 2),

which indicated that the groundwater was not impacted by COPCs associated with the former UST at concentrations that present a potential risk to human health and the environment.

2.5 Soil Gas Sampling

On May 4, 2016, a temporary subsurface soil gas well was installed at 558 West Cardinal Lane (Formerly 1453 West Cardinal Lane) in accordance with the SCDHEC approved *Uniform Federal Policy Sampling and Analysis Plan (UFP SAP) for Vapor Media, Revision 2* (Resolution Consultants, 2016). Soil gas sampling was conducted at this property to assess the potential risk for vapor intrusion associated with the possible construction of a new home on top of former the UST location. The soil gas well was placed in the same general location as the former heating oil UST and the IGWA sample location. The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). Further details are provided in the *Vapor Intrusion Report – July 2015, January 2016, and May 2016* (Resolution Consultants, 2017).

The sampling strategy for this phase of the investigation required a one-time sampling event of the soil gas well. The subsurface soil gas well at 558 West Cardinal Lane (Formerly 1453 West Cardinal Lane) was sampled on May 10, 2016. A soil gas sample was collected and shipped to an offsite laboratory for analysis of the petroleum COPCs. Upon completion of soil gas sampling, the temporary well was abandoned in accordance with the *UFP SAP for Vapor Media, Revision 2* (Resolution Consultants, 2016). Field forms are provided in the *Vapor Intrusion Report – July 2015, January 2016, and May 2016* (Resolution Consultants, 2017).

2.6 Soil Gas Analytical Results

A summary of the laboratory analytical results and USEPA (United States Environmental Protection Agency) VISLs is presented in Table 3. A copy of the laboratory analytical data report is included in Appendix D.

The soil gas results collected from 558 West Cardinal Lane (Formerly 1453 West Cardinal Lane) were below the USEPA VISLs, which indicated that subsurface soil gas was not impacted by COPCs associated with the former UST at concentrations that present a potential risk to human health and the environment.

3.0 PROPERTY STATUS

The house at 558 West Cardinal Lane (Formerly 1453 West Cardinal Lane) was demolished and the property is an empty lot. There are no current plans for construction in this area. Based on the analytical results for groundwater, SCDHEC made the determination that NFA was required for 558 West Cardinal Lane (Formerly 1453 West Cardinal Lane). The NFA determination for groundwater was obtained in a letter dated February 22, 2016. Based on the analytical results for soil gas, it was determined that there was not a vapor intrusion concern at this property and a recommendation was made for no additional vapor intrusion assessment activities. SCDHEC approved the no further vapor intrusion investigation recommendation for 558 West cardinal Lane (Formerly 1453 West Cardinal Lane) in a letter dated June 20, 2017. SCDHEC's letters are provided in Appendix E.

4.0 REFERENCES

- Marine Corps Air Station Beaufort, 2009. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 1453 West Cardinal Lane, Laurel Bay Military Housing Area*, November 2009.
- Resolution Consultants, 2015. *Initial Groundwater Investigation Report – May and June 2015 for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, October 2015.
- Resolution Consultants, 2016. *Uniform Federal Policy Sampling and Analysis Plan for Vapor Media, Revision 2, for Laurel Bay Military Housing Area Marine Corps Air Station Beaufort, Beaufort, South Carolina*, March 2016.
- Resolution Consultants, 2017. *Vapor Intrusion Report – July 2015, January 2016, and May 2016 for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, May 2017.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2013. *Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 2.0*, April 2013.

- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2015. *Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.0*, May 2015.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2016. *Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.1*, February 2016.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2017. *R.61-92, Part 280, Underground Storage Tank Control Regulations*, March 2017.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2018. *Underground Storage Tank Assessment Instructions for Permanent Closure and Change-In-Service*, March 2018.
- South Carolina Department of Health and Environmental Control Bureau of Water, 2016. *R.61-71, Well Standards*, June 2016.
- United States Environmental Protection Agency, 2015. *USEPA OSWER Vapor Intrusion Assessment, Vapor Intrusion Screening Level Calculator, Version 3.4*, June 2015.

Tables

Table 1
Laboratory Analytical Results - Soil
558 West Cardinal Lane (Formerly 1453 West Cardinal Lane)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Sample Collected 08/06/09
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)		
Benzene	0.007	ND
Ethylbenzene	1.15	0.0207
Naphthalene	0.036	0.0569
Toluene	1.45	0.00254
Xylenes, Total	14.5	0.146
Semivolatile Organic Compounds Analyzed by EPA Method 8270C (mg/kg)		
Benzo(a)anthracene	0.066	0.275
Benzo(b)fluoranthene	0.066	0.165
Benzo(k)fluoranthene	0.066	0.160
Chrysene	0.066	0.370
Dibenz(a,h)anthracene	0.066	ND

Notes:

⁽¹⁾ South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 1.0 (SCDHEC, May 2001).

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - milligrams per kilogram

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Table 2
Laboratory Analytical Results - Groundwater
558 West Cardinal Lane (Formerly 1453 West Cardinal Lane)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Site-Specific Groundwater VISLs (µg/L) ⁽²⁾	Results Sample Collected 06/23/15
Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)			
Benzene	5	16.24	ND
Ethylbenzene	700	45.95	ND
Naphthalene	25	29.33	ND
Toluene	1000	105,445	ND
Xylenes, Total	10,000	2,133	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (µg/L)			
Benzo(a)anthracene	10	NA	ND
Benzo(b)fluoranthene	10	NA	ND
Benzo(k)fluoranthene	10	NA	ND
Chrysene	10	NA	ND
Dibenz(a,h)anthracene	10	NA	ND

Notes:

(1) South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.0 (SCDHEC, May 2015).

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

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

JE - Johnson & Ettinger

NA - not applicable

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

µg/L - micrograms per liter

VISL - Vapor Intrusion Screening Level

Table 3
Laboratory Analytical Results - Vapor
558 West Cardinal Lane (Formerly 1453 West Cardinal Lane)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	USEPA VISL ⁽¹⁾	Results Sample Collected 05/10/16
Volatile Organic Compounds Analyzed by USEPA Method TO-15 (µg/m³)		
Benzene	12	ND
Toluene	17000	0.48
Ethylbenzene	37	ND
m,p-Xylenes	350	0.49
o-Xylene	350	0.22
Naphthalene	2.8	1.1

Notes:

⁽¹⁾ United States Environmental Protection Agency Exterior Soil Gas Vapor Intrusion Screening Level (VISL) from VISL Calculator (Version 3.4, June 2015).

VISLs are based on a residual exposure scenario and a target risk level of 1×10^{-6} and a hazard quotient of 0.1.

Bold font indicates the analyte was detected.

Bold font and shading indicates the concentration exceeds the residential VISL.

USEPA - United States Environmental Protection Agency

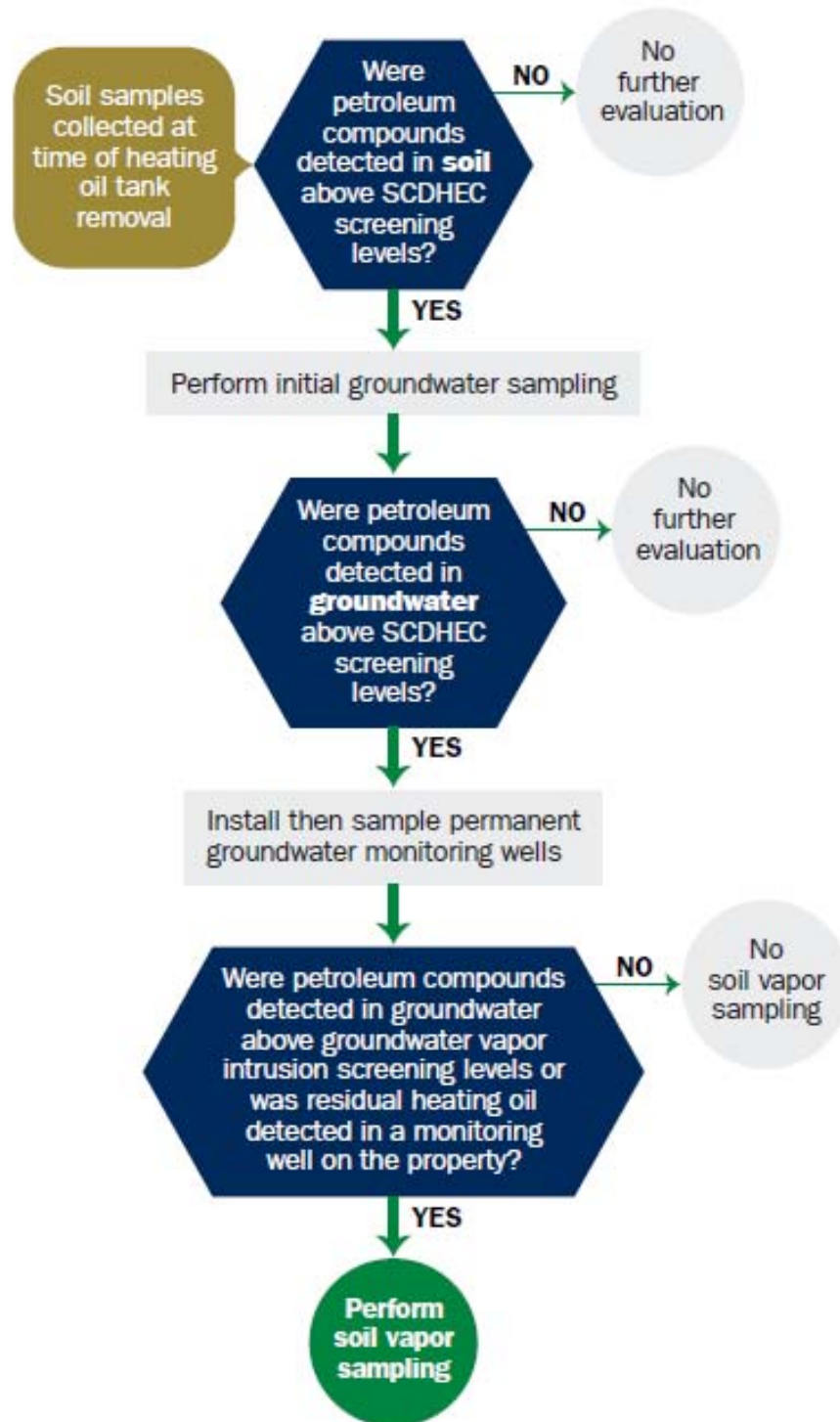
ND - not detected at the reporting limit (or method detection limit if shown on the laboratory report). The vapor laboratory report is provided in Appendix D.

RBSL - Risk-Based Screening Level

µg/m³ - micrograms per cubic meter

VISL - Vapor Intrusion Screening Level

Appendix A
Multi-Media Selection Process for LBMH



Appendix A - Multi-Media Selection Process for LBMH

Appendix B
UST Assessment Report

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

RECEIVED

NOV 09 2009

Date Received

State Use Only

RECEIVED

NOV 13 2009

SC DHEC - Bureau of
Land & Waste Management

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

I. OWNERSHIP OF UST (S)

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

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

P.O. Box 55001

Mailing Address

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

1453 Cardinal Lane, 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.....

1453Cardinal				
Heating oil				
280 gal				
Late 1950s				
Steel				
Mid 1980s				
6'6"				
No				
No				
Removed				
8/6/09				
Yes				
Yes				

- M. Method of disposal for any USTs removed from the ground (attach disposal manifests)
UST 1453Cardinal was removed from the ground and disposed of at a
Subtitle "D" landfill. See Attachment "A."
-
- N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)
UST 1453Cardinal had been previously filled with sand by others.
-
- O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST
Corrosion, pitting and holes were found throughout the tank.

VII. PIPING INFORMATION

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

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

C. Number of Dispensers.....

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

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

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

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

H. Age.....

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

1453Cardinal				
Steel & Copper				
N/A				
N/A				
Suction				
Yes				
Yes				
No				
Late 1950s				

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

VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

IX. SITE CONDITIONS

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

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009001

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
1453 Cardinal	Excav at fill end	Soil	Sandy	6'6"	8/6/09 0955 hrs	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

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

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

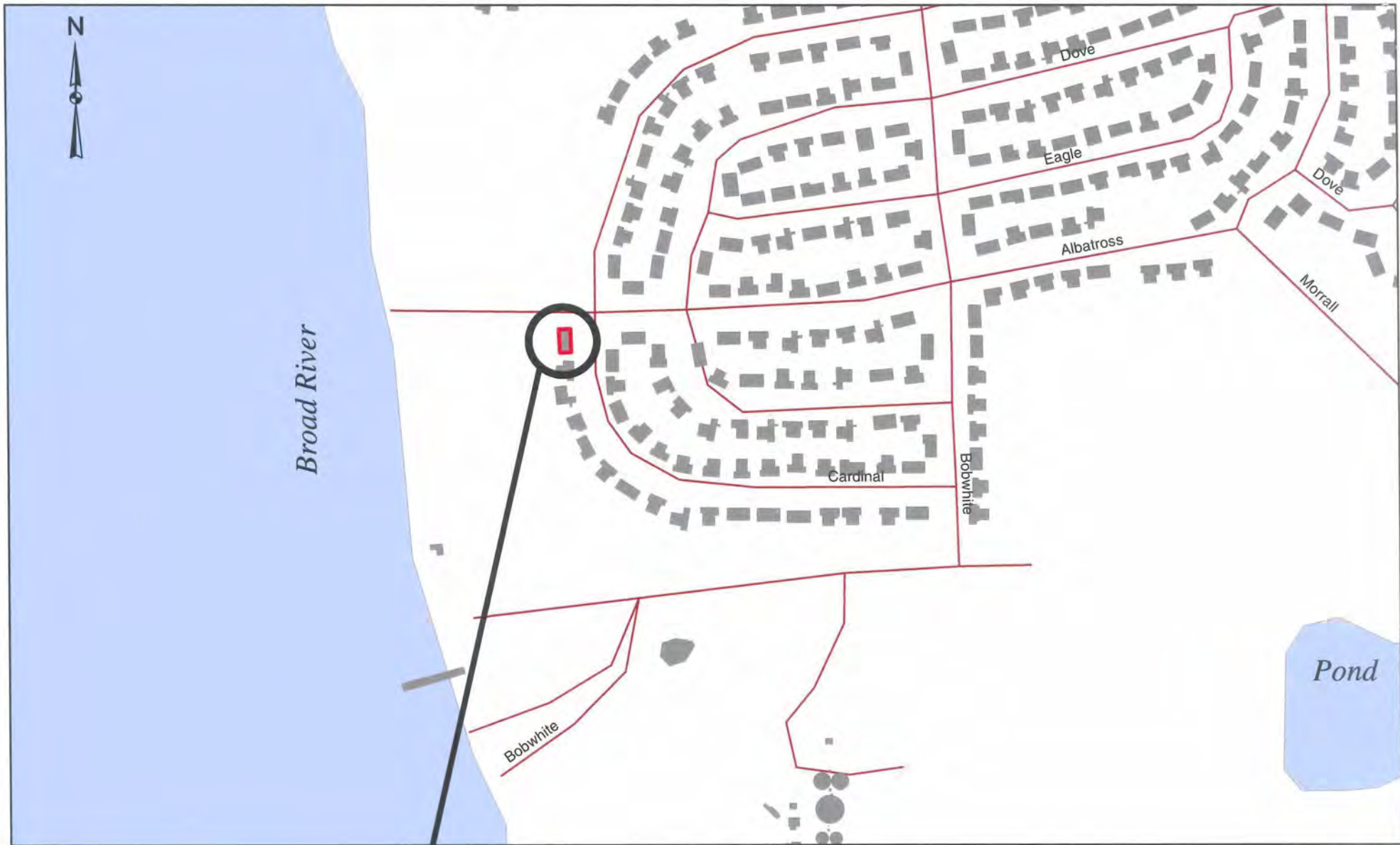
XII. RECEPTORS

	Yes	No
A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? *Broad R. ~530' If yes, indicate type of receptor, distance, and direction on site map.	*X	
B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system? If yes, indicate type of well, distance, and direction on site map.		X
C. Are there any underground structures (e.g., basements) Located within 100 feet of the UST system? If yes, indicate type of structure, distance, and direction on site map.		X
D. Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? *Sewer & water. If yes, indicate the type of utility, distance, and direction on the site map.	*X	
E. Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete? If yes, indicate the area of contaminated soil on the site map.		X

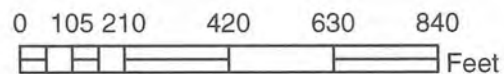
XIII. SITE MAP

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

(Attach Site Map Here)



1453 CARDINAL LANE



SBG-EEG, Inc.

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

Ph. (843) 879-0400

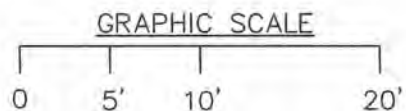
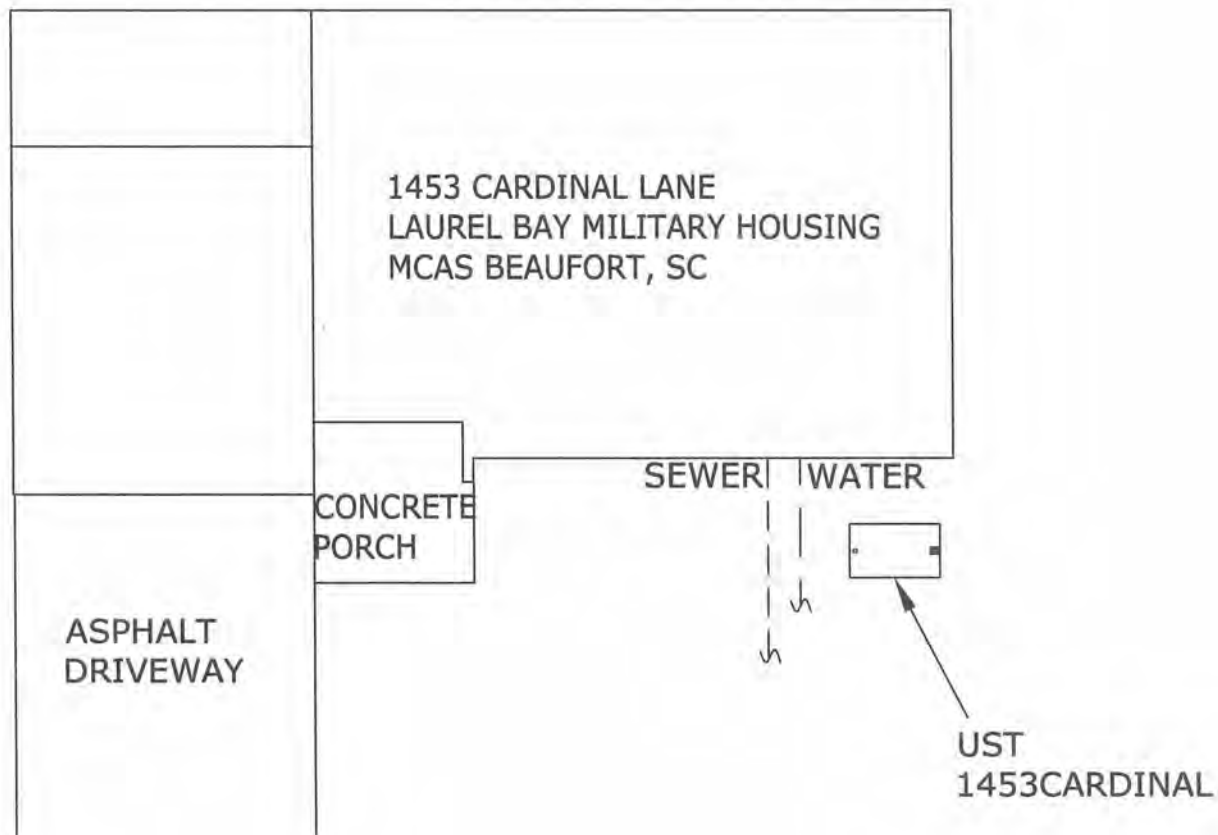
Drawn By: L. DiAsio

Dwg Date: Sept 2009

FIGURE 1: LOCATION MAP
1453 CARDINAL LANE, LAUREL BAY
MCAS BEAUFORT SC



BROAD RIVER $\approx 530'$



SBG-EEG

10179 HWY 78
LADSON, SC 29456

ph. (843) 879-0400

FIGURE 2 SITE MAP
1453 CARDINAL LANE, LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE SEPT 2009

1453 CARDINAL LANE



CONCRETE
PORCH

GRASS

SEWER

WATER

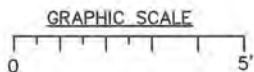
EXCAVATION

FILL END

UST 1453CARDINAL,
280 GAL.

SOIL SAMPLE
1453 CARDINAL

BROAD RIVER ≈ 530'



UST 1453CARDINAL WAS
42" BELOW GRADE.

SBG-EEG

10179 HWY 78
LADSON, SC 29456

ph. (843) 879-0400

FIGURE 3 UST SAMPLE LOCATIONS
1453 CARDINAL LANE, LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE SEPT 2009



Picture 1: Location of UST 1453Cardinal.



Picture 2: UST 1453Cardinal site after completion of work.

XIV. SUMMARY OF ANALYSIS RESULTS

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

CoC	UST 1453Cardinal							
Benzene	ND							
Toluene	0.00254 mg/kg							
Ethylbenzene	0.0207 mg/kg							
Xylenes	0.146 mg/kg							
Naphthalene	0.0569 mg/kg							
Benzo (a) anthracene	0.275 mg/kg							
Benzo (b) fluoranthene	0.165 mg/kg							
Benzo (k) fluoranthene	0.160 mg/kg							
Chrysene	0.370 mg/kg							
Dibenz (a, h) anthracene	ND							
TPH (EPA 3550)								

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

SUMMARY OF ANALYSIS RESULTS (cont'd)

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

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

XV. ANALYTICAL RESULTS

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

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

August 21, 2009

5:16:39PM

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Nbr: [none]
P/O Nbr: 0829
Date Received: 08/07/09

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
1442 Dove-1	NSH0586-01	08/05/09 09:55
1442 Dove-2	NSH0586-02	08/05/09 11:15
1449 Dove	NSH0586-03	08/05/09 10:10
1434 Dove	NSH0586-04	08/05/09 14:30
1437 Dove	NSH0586-05	08/05/09 15:45
1453 Cardinal	NSH0586-06	08/06/09 09:55
1454 Cardinal	NSH0586-07	08/06/09 13:30
1457 Cardinal	NSH0586-08	08/06/09 16:05

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

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

South Carolina Certification Number: 84009001

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

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

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

Estimated uncertainty is available upon request.

This report has been electronically signed.

Report Approved By:



Ken A. Hayes

Senior Project Manager

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSH0586-01 (1442 Dove-1 - Soil) Sampled: 08/05/09 09:55								
General Chemistry Parameters								
% Dry Solids	73.8		%	0.500	1	08/19/09 10:43	SW-846	9082732
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00231	1	08/18/09 15:12	SW846 8260B	9082986
Ethylbenzene	0.694		mg/kg dry	0.113	50	08/18/09 21:09	SW846 8260B	9082980
Naphthalene	4.37		mg/kg dry	0.282	50	08/18/09 21:09	SW846 8260B	9082980
Toluene	ND		mg/kg dry	0.00231	1	08/18/09 15:12	SW846 8260B	9082986
Xylenes, total	1.50		mg/kg dry	0.282	50	08/18/09 21:09	SW846 8260B	9082980
Surr: 1,2-Dichloroethane-d4 (67-138%)	102 %					08/18/09 15:12	SW846 8260B	9082986
Surr: 1,2-Dichloroethane-d4 (67-138%)	102 %					08/18/09 21:09	SW846 8260B	9082980
Surr: Dibromofluoromethane (75-125%)	106 %					08/18/09 15:12	SW846 8260B	9082986
Surr: Dibromofluoromethane (75-125%)	95 %					08/18/09 21:09	SW846 8260B	9082980
Surr: Toluene-d8 (76-129%)	511 %	ZX				08/18/09 15:12	SW846 8260B	9082986
Surr: Toluene-d8 (76-129%)	105 %					08/18/09 21:09	SW846 8260B	9082980
Surr: 4-Bromofluorobenzene (67-147%)	505 %	ZX				08/18/09 15:12	SW846 8260B	9082986
Surr: 4-Bromofluorobenzene (67-147%)	99 %					08/18/09 21:09	SW846 8260B	9082980

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSH0586-01 (1442 Dove-1 - Soil) - cont. Sampled: 08/05/09 09:55									
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	1.28		mg/kg dry	0.0425	0.0891	1	08/19/09 05:39	SW846 8270D	9082723
Acenaphthylene	ND		mg/kg dry	0.0412	0.0891	1	08/19/09 05:39	SW846 8270D	9082723
Anthracene	3.11		mg/kg dry	0.0439	0.0891	1	08/19/09 05:39	SW846 8270D	9082723
Benzo (a) anthracene	5.81		mg/kg dry	0.253	0.445	5	08/19/09 16:13	SW846 8270D	9082723
Benzo (a) pyrene	1.61		mg/kg dry	0.0399	0.0891	1	08/19/09 05:39	SW846 8270D	9082723
Benzo (b) fluoranthene	1.94		mg/kg dry	0.0399	0.0891	1	08/19/09 05:39	SW846 8270D	9082723
Benzo (g,h,i) perylene	0.356		mg/kg dry	0.0399	0.0891	1	08/19/09 05:39	SW846 8270D	9082723
Benzo (k) fluoranthene	1.65		mg/kg dry	0.0399	0.0891	1	08/19/09 05:39	SW846 8270D	9082723
Chrysene	2.94		mg/kg dry	0.0532	0.0891	1	08/19/09 05:39	SW846 8270D	9082723
Dibenz (a,h) anthracene	0.295		mg/kg dry	0.0412	0.0891	1	08/19/09 05:39	SW846 8270D	9082723
Fluoranthene	11.3		mg/kg dry	0.0452	0.0891	1	08/19/09 05:39	SW846 8270D	9082723
Fluorene	2.98		mg/kg dry	0.0479	0.0891	1	08/19/09 05:39	SW846 8270D	9082723
Indeno (1,2,3-cd) pyrene	0.464		mg/kg dry	0.0412	0.0891	1	08/19/09 05:39	SW846 8270D	9082723
Naphthalene	2.24		mg/kg dry	0.0545	0.0891	1	08/19/09 05:39	SW846 8270D	9082723
Phenanthrene	21.7		mg/kg dry	0.226	0.445	5	08/19/09 16:13	SW846 8270D	9082723
Pyrene	18.8		mg/kg dry	0.273	0.445	5	08/19/09 16:13	SW846 8270D	9082723
1-Methylnaphthalene	4.06		mg/kg dry	0.0425	0.0891	1	08/19/09 05:39	SW846 8270D	9082723
2-Methylnaphthalene	7.91		mg/kg dry	0.219	0.445	5	08/19/09 16:13	SW846 8270D	9082723
Surr: Terphenyl-d14 (18-120%)	74 %					1	08/19/09 05:39	SW846 8270D	9082723
Surr: 2-Fluorobiphenyl (14-120%)	72 %					1	08/19/09 05:39	SW846 8270D	9082723
Surr: Nitrobenzene-d5 (17-120%)	115 %					1	08/19/09 05:39	SW846 8270D	9082723

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSH0586-02 (1442 Dove-2 - Soil) Sampled: 08/05/09 11:15								
General Chemistry Parameters								
% Dry Solids	80.9		%	0.500	1	08/19/09 10:43	SW-846	9082732
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00286	1	08/18/09 18:42	SW846 8260B	9082980
Ethylbenzene	ND		mg/kg dry	0.00286	1	08/18/09 18:42	SW846 8260B	9082980
Naphthalene	0.0119		mg/kg dry	0.00715	1	08/18/09 18:42	SW846 8260B	9082980
Toluene	ND		mg/kg dry	0.00286	1	08/18/09 18:42	SW846 8260B	9082980
Xylenes, total	ND		mg/kg dry	0.00715	1	08/18/09 18:42	SW846 8260B	9082980
Surr: 1,2-Dichloroethane-d4 (67-138%)	116 %					08/18/09 18:42	SW846 8260B	9082980
Surr: Dibromofluoromethane (75-125%)	102 %					08/18/09 18:42	SW846 8260B	9082980
Surr: Toluene-d8 (76-129%)	100 %					08/18/09 18:42	SW846 8260B	9082980
Surr: 4-Bromofluorobenzene (67-147%)	98 %					08/18/09 18:42	SW846 8260B	9082980

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSH0586-02 (1442 Dove-2 - Soil) - cont. Sampled: 08/05/09 11:15									
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	ND		mg/kg dry	0.0395	0.0827	1	08/14/09 22:37	SW846 8270D	9081773
Acenaphthylene	ND		mg/kg dry	0.0383	0.0827	1	08/14/09 22:37	SW846 8270D	9081773
Anthracene	ND	L	mg/kg dry	0.0407	0.0827	1	08/14/09 22:37	SW846 8270D	9081773
Benzo (a) anthracene	ND		mg/kg dry	0.0469	0.0827	1	08/14/09 22:37	SW846 8270D	9081773
Benzo (a) pyrene	ND	L	mg/kg dry	0.0370	0.0827	1	08/14/09 22:37	SW846 8270D	9081773
Benzo (b) fluoranthene	ND		mg/kg dry	0.0370	0.0827	1	08/14/09 22:37	SW846 8270D	9081773
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0370	0.0827	1	08/14/09 22:37	SW846 8270D	9081773
Benzo (k) fluoranthene	ND		mg/kg dry	0.0370	0.0827	1	08/14/09 22:37	SW846 8270D	9081773
Chrysene	ND		mg/kg dry	0.0494	0.0827	1	08/14/09 22:37	SW846 8270D	9081773
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0383	0.0827	1	08/14/09 22:37	SW846 8270D	9081773
Fluoranthene	ND		mg/kg dry	0.0420	0.0827	1	08/14/09 22:37	SW846 8270D	9081773
Fluorene	ND		mg/kg dry	0.0444	0.0827	1	08/14/09 22:37	SW846 8270D	9081773
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0383	0.0827	1	08/14/09 22:37	SW846 8270D	9081773
Naphthalene	ND		mg/kg dry	0.0506	0.0827	1	08/14/09 22:37	SW846 8270D	9081773
Phenanthrene	ND		mg/kg dry	0.0420	0.0827	1	08/14/09 22:37	SW846 8270D	9081773
Pyrene	ND	L	mg/kg dry	0.0506	0.0827	1	08/14/09 22:37	SW846 8270D	9081773
1-Methylnaphthalene	ND		mg/kg dry	0.0395	0.0827	1	08/14/09 22:37	SW846 8270D	9081773
2-Methylnaphthalene	ND		mg/kg dry	0.0407	0.0827	1	08/14/09 22:37	SW846 8270D	9081773
Surr: Terphenyl-d14 (18-120%)	93 %					1	08/14/09 22:37	SW846 8270D	9081773
Surr: 2-Fluorobiphenyl (14-120%)	68 %					1	08/14/09 22:37	SW846 8270D	9081773
Surr: Nitrobenzene-d5 (17-120%)	81 %					1	08/14/09 22:37	SW846 8270D	9081773

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSH0586-03 (1449 Dove - Soil) Sampled: 08/05/09 10:10								
General Chemistry Parameters								
% Dry Solids	80.8		%	0.500	1	08/19/09 10:43	SW-846	9082732
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00226	1	08/18/09 19:12	SW846 8260B	9082980
Ethylbenzene	0.0325		mg/kg dry	0.00226	1	08/18/09 19:12	SW846 8260B	9082980
Naphthalene	0.330	E	mg/kg dry	0.00565	1	08/18/09 19:12	SW846 8260B	9082980
Toluene	0.00716		mg/kg dry	0.00226	1	08/18/09 19:12	SW846 8260B	9082980
Xylenes, total	0.141		mg/kg dry	0.00565	1	08/18/09 19:12	SW846 8260B	9082980
Surr: 1,2-Dichloroethane-d4 (67-138%)	113 %					08/18/09 19:12	SW846 8260B	9082980
Surr: Dibromofluoromethane (75-125%)	105 %					08/18/09 19:12	SW846 8260B	9082980
Surr: Toluene-d8 (76-129%)	132 %	ZX				08/18/09 19:12	SW846 8260B	9082980
Surr: 4-Bromofluorobenzene (67-147%)	95 %					08/18/09 19:12	SW846 8260B	9082980

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSH0586-03 (1449 Dove - Soil) - cont. Sampled: 08/05/09 10:10									
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	ND		mg/kg dry	0.0385	0.0805	1	08/19/09 06:04	SW846 8270D	9082723
Acenaphthylene	ND		mg/kg dry	0.0372	0.0805	1	08/19/09 06:04	SW846 8270D	9082723
Anthracene	ND		mg/kg dry	0.0397	0.0805	1	08/19/09 06:04	SW846 8270D	9082723
Benzo (a) anthracene	0.145		mg/kg dry	0.0457	0.0805	1	08/19/09 06:04	SW846 8270D	9082723
Benzo (a) pyrene	0.0529	J	mg/kg dry	0.0360	0.0805	1	08/19/09 06:04	SW846 8270D	9082723
Benzo (b) fluoranthene	0.0717	J	mg/kg dry	0.0360	0.0805	1	08/19/09 06:04	SW846 8270D	9082723
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0360	0.0805	1	08/19/09 06:04	SW846 8270D	9082723
Benzo (k) fluoranthene	ND		mg/kg dry	0.0360	0.0805	1	08/19/09 06:04	SW846 8270D	9082723
Chrysene	0.124		mg/kg dry	0.0481	0.0805	1	08/19/09 06:04	SW846 8270D	9082723
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0372	0.0805	1	08/19/09 06:04	SW846 8270D	9082723
Fluoranthene	0.283		mg/kg dry	0.0409	0.0805	1	08/19/09 06:04	SW846 8270D	9082723
Fluorene	ND		mg/kg dry	0.0433	0.0805	1	08/19/09 06:04	SW846 8270D	9082723
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0372	0.0805	1	08/19/09 06:04	SW846 8270D	9082723
Naphthalene	ND		mg/kg dry	0.0493	0.0805	1	08/19/09 06:04	SW846 8270D	9082723
Phenanthrene	0.0497	J	mg/kg dry	0.0409	0.0805	1	08/19/09 06:04	SW846 8270D	9082723
Pyrene	0.636		mg/kg dry	0.0493	0.0805	1	08/19/09 06:04	SW846 8270D	9082723
1-Methylnaphthalene	ND		mg/kg dry	0.0385	0.0805	1	08/19/09 06:04	SW846 8270D	9082723
2-Methylnaphthalene	ND		mg/kg dry	0.0397	0.0805	1	08/19/09 06:04	SW846 8270D	9082723
Surr: Terphenyl-d14 (18-120%)	80 %					1	08/19/09 06:04	SW846 8270D	9082723
Surr: 2-Fluorobiphenyl (14-120%)	65 %					1	08/19/09 06:04	SW846 8270D	9082723
Surr: Nitrobenzene-d5 (17-120%)	75 %					1	08/19/09 06:04	SW846 8270D	9082723

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSH0586-04 (1434 Dove - Soil) Sampled: 08/05/09 14:30								
General Chemistry Parameters								
% Dry Solids	81.4		%	0.500	1	08/19/09 10:43	SW-846	9082732
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	0.0107		mg/kg dry	0.00202	1	08/18/09 16:43	SW846 8260B	9082986
Ethylbenzene	0.990		mg/kg dry	0.110	50	08/18/09 22:08	SW846 8260B	9082980
Naphthalene	10.8		mg/kg dry	0.276	50	08/18/09 22:08	SW846 8260B	9082980
Toluene	0.0887		mg/kg dry	0.00202	1	08/18/09 16:43	SW846 8260B	9082986
Xylenes, total	7.70		mg/kg dry	0.276	50	08/18/09 22:08	SW846 8260B	9082980
Surr: 1,2-Dichloroethane-d4 (67-138%)	109 %					08/18/09 16:43	SW846 8260B	9082986
Surr: 1,2-Dichloroethane-d4 (67-138%)	104 %					08/18/09 22:08	SW846 8260B	9082980
Surr: Dibromofluoromethane (75-125%)	100 %					08/18/09 16:43	SW846 8260B	9082986
Surr: Dibromofluoromethane (75-125%)	96 %					08/18/09 22:08	SW846 8260B	9082980
Surr: Toluene-d8 (76-129%)	192 %	ZX				08/18/09 16:43	SW846 8260B	9082986
Surr: Toluene-d8 (76-129%)	105 %					08/18/09 22:08	SW846 8260B	9082980
Surr: 4-Bromofluorobenzene (67-147%)	503 %	ZX				08/18/09 16:43	SW846 8260B	9082986
Surr: 4-Bromofluorobenzene (67-147%)	126 %					08/18/09 22:08	SW846 8260B	9082980

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSH0586-04 (1434 Dove - Soil) - cont. Sampled: 08/05/09 14:30									
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	3.61		mg/kg dry	0.392	0.820	5	08/19/09 16:37	SW846 8270D	9082723
Acenaphthylene	ND		mg/kg dry	0.380	0.820	5	08/19/09 16:37	SW846 8270D	9082723
Anthracene	4.18		mg/kg dry	0.404	0.820	5	08/19/09 16:37	SW846 8270D	9082723
Benzo (a) anthracene	6.71		mg/kg dry	0.465	0.820	5	08/19/09 16:37	SW846 8270D	9082723
Benzo (a) pyrene	2.60		mg/kg dry	0.367	0.820	5	08/19/09 16:37	SW846 8270D	9082723
Benzo (b) fluoranthene	4.05		mg/kg dry	0.367	0.820	5	08/19/09 16:37	SW846 8270D	9082723
Benzo (g,h,i) perylene	0.682	J	mg/kg dry	0.367	0.820	5	08/19/09 16:37	SW846 8270D	9082723
Benzo (k) fluoranthene	1.76		mg/kg dry	0.367	0.820	5	08/19/09 16:37	SW846 8270D	9082723
Chrysene	6.64		mg/kg dry	0.490	0.820	5	08/19/09 16:37	SW846 8270D	9082723
Dibenz (a,h) anthracene	0.531	J	mg/kg dry	0.380	0.820	5	08/19/09 16:37	SW846 8270D	9082723
Fluoranthene	19.7		mg/kg dry	0.416	0.820	5	08/19/09 16:37	SW846 8270D	9082723
Fluorene	11.1		mg/kg dry	0.441	0.820	5	08/19/09 16:37	SW846 8270D	9082723
Indeno (1,2,3-cd) pyrene	0.796	J	mg/kg dry	0.380	0.820	5	08/19/09 16:37	SW846 8270D	9082723
Naphthalene	11.7		mg/kg dry	0.502	0.820	5	08/19/09 16:37	SW846 8270D	9082723
Phenanthrene	24.5		mg/kg dry	0.416	0.820	5	08/19/09 16:37	SW846 8270D	9082723
Pyrene	15.6		mg/kg dry	0.502	0.820	5	08/19/09 16:37	SW846 8270D	9082723
1-Methylnaphthalene	45.0		mg/kg dry	0.784	1.64	10	08/19/09 19:23	SW846 8270D	9082723
2-Methylnaphthalene	57.3		mg/kg dry	0.808	1.64	10	08/19/09 19:23	SW846 8270D	9082723
Surr: Terphenyl-d14 (18-120%)	84 %					5	08/19/09 16:37	SW846 8270D	9082723
Surr: 2-Fluorobiphenyl (14-120%)	97 %					5	08/19/09 16:37	SW846 8270D	9082723
Surr: Nitrobenzene-d5 (17-120%)	208 %	ZX				5	08/19/09 16:37	SW846 8270D	9082723

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSH0586-05 (1437 Dove - Soil) Sampled: 08/05/09 15:45								
General Chemistry Parameters								
% Dry Solids	79.7		%	0.500	1	08/19/09 10:43	SW-846	9082732
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	0.00602		mg/kg dry	0.00206	1	08/18/09 17:13	SW846 8260B	9082986
Ethylbenzene	ND		mg/kg dry	0.106	50	08/18/09 20:40	SW846 8260B	9082980
Naphthalene	1.01		mg/kg dry	0.266	50	08/18/09 20:40	SW846 8260B	9082980
Toluene	0.0540		mg/kg dry	0.00206	1	08/18/09 17:13	SW846 8260B	9082986
Xylenes, total	4.26		mg/kg dry	0.266	50	08/18/09 20:40	SW846 8260B	9082980
Surr: 1,2-Dichloroethane-d4 (67-138%)	87 %					08/18/09 17:13	SW846 8260B	9082986
Surr: 1,2-Dichloroethane-d4 (67-138%)	107 %					08/18/09 20:40	SW846 8260B	9082980
Surr: Dibromofluoromethane (75-125%)	82 %					08/18/09 17:13	SW846 8260B	9082986
Surr: Dibromofluoromethane (75-125%)	100 %					08/18/09 20:40	SW846 8260B	9082980
Surr: Toluene-d8 (76-129%)	110 %					08/18/09 17:13	SW846 8260B	9082986
Surr: Toluene-d8 (76-129%)	104 %					08/18/09 20:40	SW846 8260B	9082980
Surr: 4-Bromofluorobenzene (67-147%)	97 %					08/18/09 17:13	SW846 8260B	9082986
Surr: 4-Bromofluorobenzene (67-147%)	96 %					08/18/09 20:40	SW846 8260B	9082980

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSH0586-05 (1437 Dove - Soil) - cont. Sampled: 08/05/09 15:45									
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	0.260		mg/kg dry	0.0400	0.0838	1	08/19/09 06:52	SW846 8270D	9082723
Acenaphthylene	ND		mg/kg dry	0.0388	0.0838	1	08/19/09 06:52	SW846 8270D	9082723
Anthracene	0.0955		mg/kg dry	0.0413	0.0838	1	08/19/09 06:52	SW846 8270D	9082723
Benzo (a) anthracene	ND		mg/kg dry	0.0476	0.0838	1	08/19/09 06:52	SW846 8270D	9082723
Benzo (a) pyrene	ND		mg/kg dry	0.0375	0.0838	1	08/19/09 06:52	SW846 8270D	9082723
Benzo (b) fluoranthene	ND		mg/kg dry	0.0375	0.0838	1	08/19/09 06:52	SW846 8270D	9082723
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0375	0.0838	1	08/19/09 06:52	SW846 8270D	9082723
Benzo (k) fluoranthene	ND		mg/kg dry	0.0375	0.0838	1	08/19/09 06:52	SW846 8270D	9082723
Chrysene	ND		mg/kg dry	0.0501	0.0838	1	08/19/09 06:52	SW846 8270D	9082723
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0388	0.0838	1	08/19/09 06:52	SW846 8270D	9082723
Fluoranthene	0.114		mg/kg dry	0.0425	0.0838	1	08/19/09 06:52	SW846 8270D	9082723
Fluorene	0.617		mg/kg dry	0.0450	0.0838	1	08/19/09 06:52	SW846 8270D	9082723
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0388	0.0838	1	08/19/09 06:52	SW846 8270D	9082723
Naphthalene	0.292		mg/kg dry	0.0513	0.0838	1	08/19/09 06:52	SW846 8270D	9082723
Phenanthrene	0.469		mg/kg dry	0.0425	0.0838	1	08/19/09 06:52	SW846 8270D	9082723
Pyrene	0.192		mg/kg dry	0.0513	0.0838	1	08/19/09 06:52	SW846 8270D	9082723
1-Methylnaphthalene	2.53		mg/kg dry	0.0400	0.0838	1	08/19/09 06:52	SW846 8270D	9082723
2-Methylnaphthalene	2.98		mg/kg dry	0.0413	0.0838	1	08/19/09 06:52	SW846 8270D	9082723
Surr: Terphenyl-d14 (18-120%)	70 %					1	08/19/09 06:52	SW846 8270D	9082723
Surr: 2-Fluorobiphenyl (14-120%)	66 %					1	08/19/09 06:52	SW846 8270D	9082723
Surr: Nitrobenzene-d5 (17-120%)	89 %					1	08/19/09 06:52	SW846 8270D	9082723

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSH0586-06 (1453 Cardinal - Soil) Sampled: 08/06/09 09:55								
General Chemistry Parameters								
% Dry Solids	82.6		%	0.500	1	08/19/09 10:43	SW-846	9082732
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00189	1	08/18/09 19:41	SW846 8260B	9082980
Ethylbenzene	0.0207		mg/kg dry	0.00189	1	08/18/09 19:41	SW846 8260B	9082980
Naphthalene	0.0569		mg/kg dry	0.00474	1	08/18/09 19:41	SW846 8260B	9082980
Toluene	0.00254		mg/kg dry	0.00189	1	08/18/09 19:41	SW846 8260B	9082980
Xylenes, total	0.146		mg/kg dry	0.00474	1	08/18/09 19:41	SW846 8260B	9082980
Surr: 1,2-Dichloroethane-d4 (67-138%)	104 %					08/18/09 19:41	SW846 8260B	9082980
Surr: Dibromofluoromethane (75-125%)	100 %					08/18/09 19:41	SW846 8260B	9082980
Surr: Toluene-d8 (76-129%)	126 %					08/18/09 19:41	SW846 8260B	9082980
Surr: 4-Bromofluorobenzene (67-147%)	324 %	ZX				08/18/09 19:41	SW846 8260B	9082980

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSH0586-06 (1453 Cardinal - Soil) - cont. Sampled: 08/06/09 09:55									
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	ND		mg/kg dry	0.0382	0.0799	1	08/19/09 07:17	SW846 8270D	9082723
Acenaphthylene	ND		mg/kg dry	0.0370	0.0799	1	08/19/09 07:17	SW846 8270D	9082723
Anthracene	0.376		mg/kg dry	0.0393	0.0799	1	08/19/09 07:17	SW846 8270D	9082723
Benzo (a) anthracene	0.275		mg/kg dry	0.0453	0.0799	1	08/19/09 07:17	SW846 8270D	9082723
Benzo (a) pyrene	0.145		mg/kg dry	0.0358	0.0799	1	08/19/09 07:17	SW846 8270D	9082723
Benzo (b) fluoranthene	0.165		mg/kg dry	0.0358	0.0799	1	08/19/09 07:17	SW846 8270D	9082723
Benzo (g,h,i) perylene	0.0807		mg/kg dry	0.0358	0.0799	1	08/19/09 07:17	SW846 8270D	9082723
Benzo (k) fluoranthene	0.160		mg/kg dry	0.0358	0.0799	1	08/19/09 07:17	SW846 8270D	9082723
Chrysene	0.370		mg/kg dry	0.0477	0.0799	1	08/19/09 07:17	SW846 8270D	9082723
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0370	0.0799	1	08/19/09 07:17	SW846 8270D	9082723
Fluoranthene	0.528		mg/kg dry	0.0405	0.0799	1	08/19/09 07:17	SW846 8270D	9082723
Fluorene	0.798		mg/kg dry	0.0429	0.0799	1	08/19/09 07:17	SW846 8270D	9082723
Indeno (1,2,3-cd) pyrene	0.0763	J	mg/kg dry	0.0370	0.0799	1	08/19/09 07:17	SW846 8270D	9082723
Naphthalene	0.618		mg/kg dry	0.0489	0.0799	1	08/19/09 07:17	SW846 8270D	9082723
Phenanthrene	1.85		mg/kg dry	0.0405	0.0799	1	08/19/09 07:17	SW846 8270D	9082723
Pyrene	0.504		mg/kg dry	0.0489	0.0799	1	08/19/09 07:17	SW846 8270D	9082723
1-Methylnaphthalene	3.62		mg/kg dry	0.0382	0.0799	1	08/19/09 07:17	SW846 8270D	9082723
2-Methylnaphthalene	3.85		mg/kg dry	0.0787	0.160	2	08/19/09 17:00	SW846 8270D	9082723
Surr: Terphenyl-d14 (18-120%)	64 %					1	08/19/09 07:17	SW846 8270D	9082723
Surr: 2-Fluorobiphenyl (14-120%)	66 %					1	08/19/09 07:17	SW846 8270D	9082723
Surr: Nitrobenzene-d5 (17-120%)	102 %					1	08/19/09 07:17	SW846 8270D	9082723

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSH0586
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	08/07/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSH0586-07 (1454 Cardinal - Soil) Sampled: 08/06/09 13:30								
General Chemistry Parameters								
% Dry Solids	81.5		%	0.500	1	08/19/09 10:43	SW-846	9082732
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00215	1	08/18/09 20:11	SW846 8260B	9082980
Ethylbenzene	ND		mg/kg dry	0.00215	1	08/18/09 20:11	SW846 8260B	9082980
Naphthalene	ND		mg/kg dry	0.00536	1	08/18/09 20:11	SW846 8260B	9082980
Toluene	ND		mg/kg dry	0.00215	1	08/18/09 20:11	SW846 8260B	9082980
Xylenes, total	ND		mg/kg dry	0.00536	1	08/18/09 20:11	SW846 8260B	9082980
Surr: 1,2-Dichloroethane-d4 (67-138%)	102 %					08/18/09 20:11	SW846 8260B	9082980
Surr: Dibromofluoromethane (75-125%)	100 %					08/18/09 20:11	SW846 8260B	9082980
Surr: Toluene-d8 (76-129%)	103 %					08/18/09 20:11	SW846 8260B	9082980
Surr: 4-Bromofluorobenzene (67-147%)	101 %					08/18/09 20:11	SW846 8260B	9082980

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSH0586-07 (1454 Cardinal - Soil) - cont. Sampled: 08/06/09 13:30									
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	ND		mg/kg dry	0.0766	0.160	2	08/16/09 00:13	SW846 8270D	9081503
Acenaphthylene	ND		mg/kg dry	0.0742	0.160	2	08/16/09 00:13	SW846 8270D	9081503
Anthracene	ND		mg/kg dry	0.0790	0.160	2	08/16/09 00:13	SW846 8270D	9081503
Benzo (a) anthracene	ND		mg/kg dry	0.0909	0.160	2	08/16/09 00:13	SW846 8270D	9081503
Benzo (a) pyrene	0.199		mg/kg dry	0.0718	0.160	2	08/16/09 00:13	SW846 8270D	9081503
Benzo (b) fluoranthene	0.247		mg/kg dry	0.0718	0.160	2	08/16/09 00:13	SW846 8270D	9081503
Benzo (g,h,i) perylene	0.643		mg/kg dry	0.0718	0.160	2	08/16/09 00:13	SW846 8270D	9081503
Benzo (k) fluoranthene	ND		mg/kg dry	0.0718	0.160	2	08/16/09 00:13	SW846 8270D	9081503
Chrysene	0.598		mg/kg dry	0.0957	0.160	2	08/16/09 00:13	SW846 8270D	9081503
Dibenz (a,h) anthracene	0.146	J	mg/kg dry	0.0742	0.160	2	08/16/09 00:13	SW846 8270D	9081503
Fluoranthene	ND		mg/kg dry	0.0814	0.160	2	08/16/09 00:13	SW846 8270D	9081503
Fluorene	ND		mg/kg dry	0.0862	0.160	2	08/16/09 00:13	SW846 8270D	9081503
Indeno (1,2,3-cd) pyrene	0.609		mg/kg dry	0.0742	0.160	2	08/16/09 00:13	SW846 8270D	9081503
Naphthalene	ND		mg/kg dry	0.0981	0.160	2	08/16/09 00:13	SW846 8270D	9081503
Phenanthrene	ND		mg/kg dry	0.0814	0.160	2	08/16/09 00:13	SW846 8270D	9081503
Pyrene	ND		mg/kg dry	0.0981	0.160	2	08/16/09 00:13	SW846 8270D	9081503
1-Methylnaphthalene	0.107	J	mg/kg dry	0.0766	0.160	2	08/16/09 00:13	SW846 8270D	9081503
2-Methylnaphthalene	0.116	J	mg/kg dry	0.0790	0.160	2	08/16/09 00:13	SW846 8270D	9081503
Surr: Terphenyl-d14 (18-120%)	83 %					2	08/16/09 00:13	SW846 8270D	9081503
Surr: 2-Fluorobiphenyl (14-120%)	60 %					2	08/16/09 00:13	SW846 8270D	9081503
Surr: Nitrobenzene-d5 (17-120%)	74 %					2	08/16/09 00:13	SW846 8270D	9081503

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSH0586-08 (1457 Cardinal - Soil) Sampled: 08/06/09 16:05								
General Chemistry Parameters								
% Dry Solids	78.8		%	0.500	1	08/19/09 10:43	SW-846	9082732
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	0.0101		mg/kg dry	0.00235	1	08/18/09 18:43	SW846 8260B	9082986
Ethylbenzene	0.152		mg/kg dry	0.00235	1	08/18/09 18:43	SW846 8260B	9082986
Naphthalene	0.475		mg/kg dry	0.393	50	08/18/09 19:13	SW846 8260B	9082986
Toluene	0.0384		mg/kg dry	0.00235	1	08/18/09 18:43	SW846 8260B	9082986
Xylenes, total	0.878	E	mg/kg dry	0.00588	1	08/18/09 18:43	SW846 8260B	9082986
Surr: 1,2-Dichloroethane-d4 (67-138%)	92 %					08/18/09 18:43	SW846 8260B	9082986
Surr: 1,2-Dichloroethane-d4 (67-138%)	92 %					08/18/09 19:13	SW846 8260B	9082986
Surr: Dibromofluoromethane (75-125%)	83 %					08/18/09 18:43	SW846 8260B	9082986
Surr: Dibromofluoromethane (75-125%)	101 %					08/18/09 19:13	SW846 8260B	9082986
Surr: Toluene-d8 (76-129%)	122 %					08/18/09 18:43	SW846 8260B	9082986
Surr: Toluene-d8 (76-129%)	88 %					08/18/09 19:13	SW846 8260B	9082986
Surr: 4-Bromofluorobenzene (67-147%)	136 %					08/18/09 18:43	SW846 8260B	9082986
Surr: 4-Bromofluorobenzene (67-147%)	95 %					08/18/09 19:13	SW846 8260B	9082986

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSH0586-08 (1457 Cardinal - Soil) - cont. Sampled: 08/06/09 16:05									
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	2.38		mg/kg dry	0.200	0.418	5	08/16/09 02:29	SW846 8270D	9081503
Acenaphthylene	ND		mg/kg dry	0.194	0.418	5	08/16/09 02:29	SW846 8270D	9081503
Anthracene	1.37		mg/kg dry	0.206	0.418	5	08/16/09 02:29	SW846 8270D	9081503
Benzo (a) anthracene	3.57		mg/kg dry	0.237	0.418	5	08/16/09 02:29	SW846 8270D	9081503
Benzo (a) pyrene	1.65		mg/kg dry	0.187	0.418	5	08/16/09 02:29	SW846 8270D	9081503
Benzo (b) fluoranthene	2.35		mg/kg dry	0.187	0.418	5	08/16/09 02:29	SW846 8270D	9081503
Benzo (g,h,i) perylene	0.558		mg/kg dry	0.187	0.418	5	08/16/09 02:29	SW846 8270D	9081503
Benzo (k) fluoranthene	1.54		mg/kg dry	0.187	0.418	5	08/16/09 02:29	SW846 8270D	9081503
Chrysene	3.27		mg/kg dry	0.250	0.418	5	08/16/09 02:29	SW846 8270D	9081503
Dibenz (a,h) anthracene	0.227	J	mg/kg dry	0.194	0.418	5	08/16/09 02:29	SW846 8270D	9081503
Fluoranthene	9.72		mg/kg dry	0.212	0.418	5	08/16/09 02:29	SW846 8270D	9081503
Fluorene	4.90		mg/kg dry	0.225	0.418	5	08/16/09 02:29	SW846 8270D	9081503
Indeno (1,2,3-cd) pyrene	0.604		mg/kg dry	0.194	0.418	5	08/16/09 02:29	SW846 8270D	9081503
Naphthalene	12.1		mg/kg dry	0.256	0.418	5	08/16/09 02:29	SW846 8270D	9081503
Phenanthrene	13.8		mg/kg dry	0.212	0.418	5	08/16/09 02:29	SW846 8270D	9081503
Pyrene	11.2		mg/kg dry	0.256	0.418	5	08/16/09 02:29	SW846 8270D	9081503
1-Methylnaphthalene	30.3		mg/kg dry	2.00	4.18	50	08/16/09 02:06	SW846 8270D	9081503
2-Methylnaphthalene	46.8		mg/kg dry	2.06	4.18	50	08/16/09 02:06	SW846 8270D	9081503
Surr: Terphenyl-d14 (18-120%)	62 %					5	08/16/09 02:29	SW846 8270D	9081503
Surr: 2-Fluorobiphenyl (14-120%)	113 %					5	08/16/09 02:29	SW846 8270D	9081503
Surr: Nitrobenzene-d5 (17-120%)	78 %					5	08/16/09 02:29	SW846 8270D	9081503

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Polyaromatic Hydrocarbons by EPA 8270D							
SW846 8270D	9081773	NSH0586-01	30.62	1.00	08/13/09 14:30	TEM	EPA 3550C
SW846 8270D	9081773	NSH0586-01RE1	30.62	1.00	08/13/09 14:30	TEM	EPA 3550C
SW846 8270D	9081773	NSH0586-01RE2	30.62	1.00	08/13/09 14:30	TEM	EPA 3550C
SW846 8270D	9082723	NSH0586-01RE3	30.58	1.00	08/18/09 11:30	AJF	EPA 3550C
SW846 8270D	9082723	NSH0586-01RE4	30.58	1.00	08/18/09 11:30	AJF	EPA 3550C
SW846 8270D	9081773	NSH0586-02	30.04	1.00	08/13/09 14:30	TEM	EPA 3550C
SW846 8270D	9081773	NSH0586-03	30.33	1.00	08/13/09 14:30	TEM	EPA 3550C
SW846 8270D	9082723	NSH0586-03RE1	30.90	1.00	08/18/09 11:30	AJF	EPA 3550C
SW846 8270D	9081773	NSH0586-04	30.70	1.00	08/13/09 14:30	TEM	EPA 3550C
SW846 8270D	9081773	NSH0586-04RE1	30.70	1.00	08/13/09 14:30	TEM	EPA 3550C
SW846 8270D	9081773	NSH0586-04RE2	30.70	1.00	08/13/09 14:30	TEM	EPA 3550C
SW846 8270D	9082723	NSH0586-04RE3	30.10	2.00	08/18/09 11:30	AJF	EPA 3550C
SW846 8270D	9082723	NSH0586-04RE4	30.10	2.00	08/18/09 11:30	AJF	EPA 3550C
SW846 8270D	9082723	NSH0586-04RE5	30.10	2.00	08/18/09 11:30	AJF	EPA 3550C
SW846 8270D	9081773	NSH0586-05	30.75	1.00	08/13/09 14:30	TEM	EPA 3550C
SW846 8270D	9082723	NSH0586-05RE1	30.08	1.00	08/18/09 11:30	AJF	EPA 3550C
SW846 8270D	9081773	NSH0586-06	30.30	1.00	08/13/09 14:30	TEM	EPA 3550C
SW846 8270D	9081773	NSH0586-06RE1	30.30	1.00	08/13/09 14:30	TEM	EPA 3550C
SW846 8270D	9082723	NSH0586-06RE2	30.46	1.00	08/18/09 11:30	AJF	EPA 3550C
SW846 8270D	9082723	NSH0586-06RE3	30.46	1.00	08/18/09 11:30	AJF	EPA 3550C
SW846 8270D	9081503	NSH0586-07	30.76	1.00	08/12/09 08:30	MAH	EPA 3550C
SW846 8270D	9081503	NSH0586-08	30.48	1.00	08/12/09 08:30	MAH	EPA 3550C
SW846 8270D	9081503	NSH0586-08RE1	30.48	1.00	08/12/09 08:30	MAH	EPA 3550C
SW846 8270D	9081503	NSH0586-08RE2	30.48	1.00	08/12/09 08:30	MAH	EPA 3550C
Selected Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	9082986	NSH0586-01	5.87	5.00	08/05/09 09:55	CHH	EPA 5035
SW846 8260B	9082980	NSH0586-01RE1	6.00	5.00	08/05/09 09:55	CHH	EPA 5035
SW846 8260B	9082980	NSH0586-01RE2	6.00	5.00	08/05/09 09:55	CHH	EPA 5035
SW846 8260B	9082986	NSH0586-02	5.54	5.00	08/05/09 11:15	CHH	EPA 5035
SW846 8260B	9082980	NSH0586-02RE1	4.32	5.00	08/05/09 11:15	CHH	EPA 5035
SW846 8260B	9082986	NSH0586-03	5.90	5.00	08/05/09 10:10	CHH	EPA 5035
SW846 8260B	9082980	NSH0586-03RE1	5.48	5.00	08/05/09 10:10	CHH	EPA 5035
SW846 8260B	9082982	NSH0586-03RE2	5.53	5.00	08/05/09 10:10	JRL	EPA 5035
SW846 8260B	9082986	NSH0586-04	6.07	5.00	08/05/09 14:30	CHH	EPA 5035
SW846 8260B	9082980	NSH0586-04RE1	5.56	5.00	08/05/09 14:30	CHH	EPA 5035
SW846 8260B	9082980	NSH0586-04RE2	5.56	5.00	08/05/09 14:30	CHH	EPA 5035
SW846 8260B	9082986	NSH0586-05	6.09	5.00	08/05/09 15:45	CHH	EPA 5035
SW846 8260B	9082980	NSH0586-05RE1	5.90	5.00	08/05/09 15:45	CHH	EPA 5035
SW846 8260B	9082986	NSH0586-06	5.82	5.00	08/06/09 09:55	CHH	EPA 5035
SW846 8260B	9082980	NSH0586-06RE1	6.39	5.00	08/06/09 09:55	CHH	EPA 5035
SW846 8260B	9082986	NSH0586-07	5.81	5.00	08/06/09 13:30	CHH	EPA 5035
SW846 8260B	9082980	NSH0586-07RE1	5.72	5.00	08/06/09 13:30	CHH	EPA 5035
SW846 8260B	9082986	NSH0586-08	5.40	5.00	08/06/09 16:05	CHH	EPA 5035
SW846 8260B	9082986	NSH0586-08RE1	4.04	5.00	08/06/09 16:05	CHH	EPA 5035

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

PROJECT QUALITY CONTROL DATA

Blank

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

9082980-BLK1

Benzene	<0.000670		mg/kg wet	9082980	9082980-BLK1	08/18/09 18:13
Ethylbenzene	<0.000670		mg/kg wet	9082980	9082980-BLK1	08/18/09 18:13
Naphthalene	<0.00170		mg/kg wet	9082980	9082980-BLK1	08/18/09 18:13
Toluene	<0.000400		mg/kg wet	9082980	9082980-BLK1	08/18/09 18:13
Xylenes, total	<0.00130		mg/kg wet	9082980	9082980-BLK1	08/18/09 18:13
Surrogate: 1,2-Dichloroethane-d4	118%			9082980	9082980-BLK1	08/18/09 18:13
Surrogate: Dibromofluoromethane	108%			9082980	9082980-BLK1	08/18/09 18:13
Surrogate: Toluene-d8	101%			9082980	9082980-BLK1	08/18/09 18:13
Surrogate: 4-Bromofluorobenzene	104%			9082980	9082980-BLK1	08/18/09 18:13

9082986-BLK1

Benzene	<0.000670		mg/kg wet	9082986	9082986-BLK1	08/18/09 14:12
Ethylbenzene	<0.000670		mg/kg wet	9082986	9082986-BLK1	08/18/09 14:12
Naphthalene	<0.00170		mg/kg wet	9082986	9082986-BLK1	08/18/09 14:12
Toluene	<0.000400		mg/kg wet	9082986	9082986-BLK1	08/18/09 14:12
Xylenes, total	<0.00130		mg/kg wet	9082986	9082986-BLK1	08/18/09 14:12
Surrogate: 1,2-Dichloroethane-d4	103%			9082986	9082986-BLK1	08/18/09 14:12
Surrogate: Dibromofluoromethane	96%			9082986	9082986-BLK1	08/18/09 14:12
Surrogate: Toluene-d8	93%			9082986	9082986-BLK1	08/18/09 14:12
Surrogate: 4-Bromofluorobenzene	92%			9082986	9082986-BLK1	08/18/09 14:12

Polyaromatic Hydrocarbons by EPA 8270D

9081503-BLK1

Acenaphthene	<0.0320		mg/kg wet	9081503	9081503-BLK1	08/14/09 13:56
Acenaphthylene	<0.0310		mg/kg wet	9081503	9081503-BLK1	08/14/09 13:56
Anthracene	<0.0330		mg/kg wet	9081503	9081503-BLK1	08/14/09 13:56
Benzo (a) anthracene	<0.0380		mg/kg wet	9081503	9081503-BLK1	08/14/09 13:56
Benzo (a) pyrene	<0.0300		mg/kg wet	9081503	9081503-BLK1	08/14/09 13:56
Benzo (b) fluoranthene	<0.0300		mg/kg wet	9081503	9081503-BLK1	08/14/09 13:56
Benzo (g,h,i) perylene	<0.0300		mg/kg wet	9081503	9081503-BLK1	08/14/09 13:56
Benzo (k) fluoranthene	<0.0300		mg/kg wet	9081503	9081503-BLK1	08/14/09 13:56
Chrysene	<0.0400		mg/kg wet	9081503	9081503-BLK1	08/14/09 13:56
Dibenz (a,h) anthracene	<0.0310		mg/kg wet	9081503	9081503-BLK1	08/14/09 13:56
Fluoranthene	<0.0340		mg/kg wet	9081503	9081503-BLK1	08/14/09 13:56
Fluorene	<0.0360		mg/kg wet	9081503	9081503-BLK1	08/14/09 13:56
Indeno (1,2,3-cd) pyrene	<0.0310		mg/kg wet	9081503	9081503-BLK1	08/14/09 13:56
Naphthalene	<0.0410		mg/kg wet	9081503	9081503-BLK1	08/14/09 13:56
Phenanthrene	<0.0340		mg/kg wet	9081503	9081503-BLK1	08/14/09 13:56
Pyrene	<0.0410		mg/kg wet	9081503	9081503-BLK1	08/14/09 13:56
1-Methylnaphthalene	<0.0320		mg/kg wet	9081503	9081503-BLK1	08/14/09 13:56
2-Methylnaphthalene	<0.0330		mg/kg wet	9081503	9081503-BLK1	08/14/09 13:56

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

PROJECT QUALITY CONTROL DATA Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
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Polyaromatic Hydrocarbons by EPA 8270D

9081503-BLK1

Surrogate: Terphenyl-d14	78%			9081503	9081503-BLK1	08/14/09 13:56
Surrogate: 2-Fluorobiphenyl	62%			9081503	9081503-BLK1	08/14/09 13:56
Surrogate: Nitrobenzene-d5	59%			9081503	9081503-BLK1	08/14/09 13:56

9081773-BLK1

Acenaphthene	<0.0320		mg/kg wet	9081773	9081773-BLK1	08/14/09 15:30
Acenaphthylene	<0.0310		mg/kg wet	9081773	9081773-BLK1	08/14/09 15:30
Anthracene	<0.0330		mg/kg wet	9081773	9081773-BLK1	08/14/09 15:30
Benzo (a) anthracene	<0.0380		mg/kg wet	9081773	9081773-BLK1	08/14/09 15:30
Benzo (a) pyrene	<0.0300		mg/kg wet	9081773	9081773-BLK1	08/14/09 15:30
Benzo (b) fluoranthene	<0.0300		mg/kg wet	9081773	9081773-BLK1	08/14/09 15:30
Benzo (g,h,i) perylene	<0.0300		mg/kg wet	9081773	9081773-BLK1	08/14/09 15:30
Benzo (k) fluoranthene	<0.0300		mg/kg wet	9081773	9081773-BLK1	08/14/09 15:30
Chrysene	<0.0400		mg/kg wet	9081773	9081773-BLK1	08/14/09 15:30
Dibenz (a,h) anthracene	<0.0310		mg/kg wet	9081773	9081773-BLK1	08/14/09 15:30
Fluoranthene	<0.0340		mg/kg wet	9081773	9081773-BLK1	08/14/09 15:30
Fluorene	<0.0360		mg/kg wet	9081773	9081773-BLK1	08/14/09 15:30
Indeno (1,2,3-cd) pyrene	<0.0310		mg/kg wet	9081773	9081773-BLK1	08/14/09 15:30
Naphthalene	<0.0410		mg/kg wet	9081773	9081773-BLK1	08/14/09 15:30
Phenanthrene	<0.0340		mg/kg wet	9081773	9081773-BLK1	08/14/09 15:30
Pyrene	<0.0410		mg/kg wet	9081773	9081773-BLK1	08/14/09 15:30
1-Methylnaphthalene	<0.0320		mg/kg wet	9081773	9081773-BLK1	08/14/09 15:30
2-Methylnaphthalene	<0.0330		mg/kg wet	9081773	9081773-BLK1	08/14/09 15:30
Surrogate: Terphenyl-d14	96%			9081773	9081773-BLK1	08/14/09 15:30
Surrogate: 2-Fluorobiphenyl	81%			9081773	9081773-BLK1	08/14/09 15:30
Surrogate: Nitrobenzene-d5	86%			9081773	9081773-BLK1	08/14/09 15:30

9082723-BLK1

Acenaphthene	<0.0320		mg/kg wet	9082723	9082723-BLK1	08/19/09 02:02
Acenaphthylene	<0.0310		mg/kg wet	9082723	9082723-BLK1	08/19/09 02:02
Anthracene	<0.0330		mg/kg wet	9082723	9082723-BLK1	08/19/09 02:02
Benzo (a) anthracene	<0.0380		mg/kg wet	9082723	9082723-BLK1	08/19/09 02:02
Benzo (a) pyrene	<0.0300		mg/kg wet	9082723	9082723-BLK1	08/19/09 02:02
Benzo (b) fluoranthene	<0.0300		mg/kg wet	9082723	9082723-BLK1	08/19/09 02:02
Benzo (g,h,i) perylene	<0.0300		mg/kg wet	9082723	9082723-BLK1	08/19/09 02:02
Benzo (k) fluoranthene	<0.0300		mg/kg wet	9082723	9082723-BLK1	08/19/09 02:02
Chrysene	<0.0400		mg/kg wet	9082723	9082723-BLK1	08/19/09 02:02
Dibenz (a,h) anthracene	<0.0310		mg/kg wet	9082723	9082723-BLK1	08/19/09 02:02
Fluoranthene	<0.0340		mg/kg wet	9082723	9082723-BLK1	08/19/09 02:02
Fluorene	<0.0360		mg/kg wet	9082723	9082723-BLK1	08/19/09 02:02
Indeno (1,2,3-cd) pyrene	<0.0310		mg/kg wet	9082723	9082723-BLK1	08/19/09 02:02
Naphthalene	<0.0410		mg/kg wet	9082723	9082723-BLK1	08/19/09 02:02

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D						
9082723-BLK1						
Phenanthrene	<0.0340		mg/kg wet	9082723	9082723-BLK1	08/19/09 02:02
Pyrene	<0.0410		mg/kg wet	9082723	9082723-BLK1	08/19/09 02:02
1-Methylnaphthalene	<0.0320		mg/kg wet	9082723	9082723-BLK1	08/19/09 02:02
2-Methylnaphthalene	<0.0330		mg/kg wet	9082723	9082723-BLK1	08/19/09 02:02
Surrogate: Terphenyl-d14	78%			9082723	9082723-BLK1	08/19/09 02:02
Surrogate: 2-Fluorobiphenyl	70%			9082723	9082723-BLK1	08/19/09 02:02
Surrogate: Nitrobenzene-d5	81%			9082723	9082723-BLK1	08/19/09 02:02

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

PROJECT QUALITY CONTROL DATA

Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
General Chemistry Parameters										
9082732-DUP1										
% Dry Solids	81.6	82.7		%	1	20	9082732	NSH0575-08		08/19/09 10:43

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
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Selected Volatile Organic Compounds by EPA Method 8260B

9082980-BS1

Benzene	50.0	47.8		ug/kg	96%	78 - 126	9082980	08/18/09 16:15
Ethylbenzene	50.0	49.8		ug/kg	100%	79 - 130	9082980	08/18/09 16:15
Naphthalene	50.0	50.6		ug/kg	101%	72 - 150	9082980	08/18/09 16:15
Toluene	50.0	49.7		ug/kg	99%	76 - 126	9082980	08/18/09 16:15
Xylenes, total	150	152		ug/kg	101%	80 - 130	9082980	08/18/09 16:15
Surrogate: 1,2-Dichloroethane-d4	50.0	55.1			110%	67 - 138	9082980	08/18/09 16:15
Surrogate: Dibromofluoromethane	50.0	51.6			103%	75 - 125	9082980	08/18/09 16:15
Surrogate: Toluene-d8	50.0	50.2			100%	76 - 129	9082980	08/18/09 16:15
Surrogate: 4-Bromofluorobenzene	50.0	48.2			96%	67 - 147	9082980	08/18/09 16:15

9082986-BS1

Benzene	50.0	46.6		ug/kg	93%	78 - 126	9082986	08/18/09 12:42
Ethylbenzene	50.0	50.0		ug/kg	100%	79 - 130	9082986	08/18/09 12:42
Naphthalene	50.0	56.2		ug/kg	112%	72 - 150	9082986	08/18/09 12:42
Toluene	50.0	48.0		ug/kg	96%	76 - 126	9082986	08/18/09 12:42
Xylenes, total	150	152		ug/kg	101%	80 - 130	9082986	08/18/09 12:42
Surrogate: 1,2-Dichloroethane-d4	50.0	50.9			102%	67 - 138	9082986	08/18/09 12:42
Surrogate: Dibromofluoromethane	50.0	50.8			102%	75 - 125	9082986	08/18/09 12:42
Surrogate: Toluene-d8	50.0	49.1			98%	76 - 129	9082986	08/18/09 12:42
Surrogate: 4-Bromofluorobenzene	50.0	47.8			96%	67 - 147	9082986	08/18/09 12:42

Polyaromatic Hydrocarbons by EPA 8270D

9081503-BS1

Acenaphthene	1.67	1.08		mg/kg wet	65%	49 - 120	9081503	08/14/09 13:26
Acenaphthylene	1.67	1.10		mg/kg wet	66%	52 - 120	9081503	08/14/09 13:26
Anthracene	1.67	1.24		mg/kg wet	74%	58 - 120	9081503	08/14/09 13:26
Benzo (a) anthracene	1.67	1.14		mg/kg wet	68%	57 - 120	9081503	08/14/09 13:26
Benzo (a) pyrene	1.67	1.23		mg/kg wet	74%	55 - 120	9081503	08/14/09 13:26
Benzo (b) fluoranthene	1.67	1.16		mg/kg wet	70%	51 - 123	9081503	08/14/09 13:26
Benzo (g,h,i) perylene	1.67	1.17		mg/kg wet	70%	49 - 121	9081503	08/14/09 13:26
Benzo (k) fluoranthene	1.67	1.15		mg/kg wet	69%	42 - 129	9081503	08/14/09 13:26
Chrysene	1.67	1.10		mg/kg wet	66%	55 - 120	9081503	08/14/09 13:26
Dibenz (a,h) anthracene	1.67	1.21		mg/kg wet	72%	50 - 123	9081503	08/14/09 13:26
Fluoranthene	1.67	1.19		mg/kg wet	71%	58 - 120	9081503	08/14/09 13:26
Fluorene	1.67	1.25		mg/kg wet	75%	54 - 120	9081503	08/14/09 13:26
Indeno (1,2,3-cd) pyrene	1.67	1.21		mg/kg wet	72%	50 - 122	9081503	08/14/09 13:26
Naphthalene	1.67	0.984		mg/kg wet	59%	28 - 120	9081503	08/14/09 13:26
Phenanthrene	1.67	1.12		mg/kg wet	67%	56 - 120	9081503	08/14/09 13:26
Pyrene	1.67	1.14		mg/kg wet	68%	56 - 120	9081503	08/14/09 13:26
1-Methylnaphthalene	1.67	1.03		mg/kg wet	62%	36 - 120	9081503	08/14/09 13:26
2-Methylnaphthalene	1.67	1.08		mg/kg wet	65%	36 - 120	9081503	08/14/09 13:26

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

PROJECT QUALITY CONTROL DATA

LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D								
9081503-BS1								
<i>Surrogate: Terphenyl-d14</i>	1.67	1.17			70%	18 - 120	9081503	08/14/09 13:26
<i>Surrogate: 2-Fluorobiphenyl</i>	1.67	1.01			61%	14 - 120	9081503	08/14/09 13:26
<i>Surrogate: Nitrobenzene-d5</i>	1.67	0.953			57%	17 - 120	9081503	08/14/09 13:26
9081773-BS1								
Acenaphthene	1.67	1.43		mg/kg wet	86%	49 - 120	9081773	08/14/09 15:53
Acenaphthylene	1.67	1.49		mg/kg wet	90%	52 - 120	9081773	08/14/09 15:53
Anthracene	1.67	1.71		mg/kg wet	103%	58 - 120	9081773	08/14/09 15:53
Benzo (a) anthracene	1.67	1.62		mg/kg wet	97%	57 - 120	9081773	08/14/09 15:53
Benzo (a) pyrene	1.67	1.70		mg/kg wet	102%	55 - 120	9081773	08/14/09 15:53
Benzo (b) fluoranthene	1.67	1.82		mg/kg wet	109%	51 - 123	9081773	08/14/09 15:53
Benzo (g,h,i) perylene	1.67	1.53		mg/kg wet	92%	49 - 121	9081773	08/14/09 15:53
Benzo (k) fluoranthene	1.67	1.44		mg/kg wet	86%	42 - 129	9081773	08/14/09 15:53
Chrysene	1.67	1.56		mg/kg wet	94%	55 - 120	9081773	08/14/09 15:53
Dibenz (a,h) anthracene	1.67	1.60		mg/kg wet	96%	50 - 123	9081773	08/14/09 15:53
Fluoranthene	1.67	1.54		mg/kg wet	93%	58 - 120	9081773	08/14/09 15:53
Fluorene	1.67	1.44		mg/kg wet	86%	54 - 120	9081773	08/14/09 15:53
Indeno (1,2,3-cd) pyrene	1.67	1.59		mg/kg wet	95%	50 - 122	9081773	08/14/09 15:53
Naphthalene	1.67	1.22		mg/kg wet	73%	28 - 120	9081773	08/14/09 15:53
Phenanthrene	1.67	1.52		mg/kg wet	91%	56 - 120	9081773	08/14/09 15:53
Pyrene	1.67	1.70		mg/kg wet	102%	56 - 120	9081773	08/14/09 15:53
1-Methylnaphthalene	1.67	1.21		mg/kg wet	73%	36 - 120	9081773	08/14/09 15:53
2-Methylnaphthalene	1.67	1.23		mg/kg wet	74%	36 - 120	9081773	08/14/09 15:53
<i>Surrogate: Terphenyl-d14</i>	1.67	1.66			99%	18 - 120	9081773	08/14/09 15:53
<i>Surrogate: 2-Fluorobiphenyl</i>	1.67	1.38			83%	14 - 120	9081773	08/14/09 15:53
<i>Surrogate: Nitrobenzene-d5</i>	1.67	1.37			82%	17 - 120	9081773	08/14/09 15:53
9082723-BS1								
Acenaphthene	1.67	1.16		mg/kg wet	70%	49 - 120	9082723	08/19/09 02:26
Acenaphthylene	1.67	1.18		mg/kg wet	71%	52 - 120	9082723	08/19/09 02:26
Anthracene	1.67	1.43		mg/kg wet	86%	58 - 120	9082723	08/19/09 02:26
Benzo (a) anthracene	1.67	1.36		mg/kg wet	82%	57 - 120	9082723	08/19/09 02:26
Benzo (a) pyrene	1.67	1.39		mg/kg wet	83%	55 - 120	9082723	08/19/09 02:26
Benzo (b) fluoranthene	1.67	1.47		mg/kg wet	88%	51 - 123	9082723	08/19/09 02:26
Benzo (g,h,i) perylene	1.67	1.29		mg/kg wet	77%	49 - 121	9082723	08/19/09 02:26
Benzo (k) fluoranthene	1.67	1.17		mg/kg wet	70%	42 - 129	9082723	08/19/09 02:26
Chrysene	1.67	1.30		mg/kg wet	78%	55 - 120	9082723	08/19/09 02:26
Dibenz (a,h) anthracene	1.67	1.35		mg/kg wet	81%	50 - 123	9082723	08/19/09 02:26
Fluoranthene	1.67	1.35		mg/kg wet	81%	58 - 120	9082723	08/19/09 02:26
Fluorene	1.67	1.23		mg/kg wet	74%	54 - 120	9082723	08/19/09 02:26
Indeno (1,2,3-cd) pyrene	1.67	1.34		mg/kg wet	81%	50 - 122	9082723	08/19/09 02:26
Naphthalene	1.67	0.977		mg/kg wet	59%	28 - 120	9082723	08/19/09 02:26

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

PROJECT QUALITY CONTROL DATA

LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D								
9082723-BS1								
Phenanthrene	1.67	1.28		mg/kg wet	77%	56 - 120	9082723	08/19/09 02:26
Pyrene	1.67	1.39		mg/kg wet	84%	56 - 120	9082723	08/19/09 02:26
1-Methylnaphthalene	1.67	0.964		mg/kg wet	58%	36 - 120	9082723	08/19/09 02:26
2-Methylnaphthalene	1.67	1.01		mg/kg wet	61%	36 - 120	9082723	08/19/09 02:26
Surrogate: Terphenyl-d14	1.67	1.27			76%	18 - 120	9082723	08/19/09 02:26
Surrogate: 2-Fluorobiphenyl	1.67	1.02			61%	14 - 120	9082723	08/19/09 02:26
Surrogate: Nitrobenzene-d5	1.67	1.11			67%	17 - 120	9082723	08/19/09 02:26

Client	EEG - Small Business Group, Inc. (2449) 10179 Highway 78 Ladson, SC 29456	Work Order:	NSH0586
		Project Name:	Laurel Bay Housing Project
		Project Number:	[none]
Attn	Tom McElwee	Received:	08/07/09 08:00

PROJECT QUALITY CONTROL DATA

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
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Selected Volatile Organic Compounds by EPA Method 8260B

9082980-BSD1

Benzene	44.4			ug/kg	50.0	89%	78 - 126	8	50	9082980		08/18/09 16:44
Ethylbenzene	46.5			ug/kg	50.0	93%	79 - 130	7	50	9082980		08/18/09 16:44
Naphthalene	48.1			ug/kg	50.0	96%	72 - 150	5	50	9082980		08/18/09 16:44
Toluene	45.6			ug/kg	50.0	91%	76 - 126	9	50	9082980		08/18/09 16:44
Xylenes, total	147			ug/kg	150	98%	80 - 130	3	50	9082980		08/18/09 16:44
Surrogate: 1,2-Dichloroethane-d4	55.4			ug/kg	50.0	111%	67 - 138			9082980		08/18/09 16:44
Surrogate: Dibromofluoromethane	51.5			ug/kg	50.0	103%	75 - 125			9082980		08/18/09 16:44
Surrogate: Toluene-d8	49.9			ug/kg	50.0	100%	76 - 129			9082980		08/18/09 16:44
Surrogate: 4-Bromofluorobenzene	48.0			ug/kg	50.0	96%	67 - 147			9082980		08/18/09 16:44

9082986-BSD1

Benzene	53.5			ug/kg	50.0	107%	78 - 126	14	50	9082986		08/18/09 13:12
Ethylbenzene	52.3			ug/kg	50.0	105%	79 - 130	5	50	9082986		08/18/09 13:12
Naphthalene	60.7			ug/kg	50.0	121%	72 - 150	8	50	9082986		08/18/09 13:12
Toluene	50.4			ug/kg	50.0	101%	76 - 126	5	50	9082986		08/18/09 13:12
Xylenes, total	158			ug/kg	150	105%	80 - 130	4	50	9082986		08/18/09 13:12
Surrogate: 1,2-Dichloroethane-d4	53.3			ug/kg	50.0	107%	67 - 138			9082986		08/18/09 13:12
Surrogate: Dibromofluoromethane	54.5			ug/kg	50.0	109%	75 - 125			9082986		08/18/09 13:12
Surrogate: Toluene-d8	48.8			ug/kg	50.0	98%	76 - 129			9082986		08/18/09 13:12
Surrogate: 4-Bromofluorobenzene	47.3			ug/kg	50.0	95%	67 - 147			9082986		08/18/09 13:12

Polyaromatic Hydrocarbons by EPA 8270D

9081773-BSD1

Acenaphthene	1.81			mg/kg wet	1.67	108%	49 - 120	23	40	9081773		08/14/09 16:16
Acenaphthylene	1.90			mg/kg wet	1.67	114%	52 - 120	24	30	9081773		08/14/09 16:16
Anthracene	2.08		L	mg/kg wet	1.67	125%	58 - 120	20	50	9081773		08/14/09 16:16
Benzo (a) anthracene	1.98			mg/kg wet	1.67	119%	57 - 120	20	30	9081773		08/14/09 16:16
Benzo (a) pyrene	2.09		L	mg/kg wet	1.67	125%	55 - 120	20	33	9081773		08/14/09 16:16
Benzo (b) fluoranthene	1.98			mg/kg wet	1.67	119%	51 - 123	9	42	9081773		08/14/09 16:16
Benzo (g,h,i) perylene	1.90			mg/kg wet	1.67	114%	49 - 121	22	32	9081773		08/14/09 16:16
Benzo (k) fluoranthene	1.97			mg/kg wet	1.67	118%	42 - 129	31	39	9081773		08/14/09 16:16
Chrysene	1.93			mg/kg wet	1.67	116%	55 - 120	21	34	9081773		08/14/09 16:16
Dibenz (a,h) anthracene	1.94			mg/kg wet	1.67	117%	50 - 123	19	31	9081773		08/14/09 16:16
Fluoranthene	1.86			mg/kg wet	1.67	112%	58 - 120	19	35	9081773		08/14/09 16:16
Fluorene	1.85			mg/kg wet	1.67	111%	54 - 120	25	37	9081773		08/14/09 16:16
Indeno (1,2,3-cd) pyrene	1.91			mg/kg wet	1.67	115%	50 - 122	19	32	9081773		08/14/09 16:16
Naphthalene	1.47			mg/kg wet	1.67	88%	28 - 120	18	34	9081773		08/14/09 16:16
Phenanthrene	1.87			mg/kg wet	1.67	112%	56 - 120	21	32	9081773		08/14/09 16:16
Pyrene	2.08		L	mg/kg wet	1.67	124%	56 - 120	20	40	9081773		08/14/09 16:16
1-Methylnaphthalene	1.49			mg/kg wet	1.67	89%	36 - 120	21	45	9081773		08/14/09 16:16
2-Methylnaphthalene	1.52			mg/kg wet	1.67	91%	36 - 120	21	50	9081773		08/14/09 16:16

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D												
9081773-BSD1												
<i>Surrogate: Terphenyl-d14</i>		1.94		mg/kg wet	1.67	116%	18 - 120			9081773		08/14/09 16:16
<i>Surrogate: 2-Fluorobiphenyl</i>		1.67		mg/kg wet	1.67	100%	14 - 120			9081773		08/14/09 16:16
<i>Surrogate: Nitrobenzene-d5</i>		1.54		mg/kg wet	1.67	93%	17 - 120			9081773		08/14/09 16:16

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

PROJECT QUALITY CONTROL DATA

Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B										
9082986-MS1										
Benzene	ND	2.92		mg/kg dry	3.93	74%	42 - 141	9082986	NSH0586-08RE 1	08/18/09 22:14
Ethylbenzene	ND	2.81		mg/kg dry	3.93	72%	21 - 165	9082986	NSH0586-08RE 1	08/18/09 22:14
Naphthalene	0.475	2.77		mg/kg dry	3.93	59%	10 - 160	9082986	NSH0586-08RE 1	08/18/09 22:14
Toluene	0.237	3.01		mg/kg dry	3.93	71%	45 - 145	9082986	NSH0586-08RE 1	08/18/09 22:14
Xylenes, total	0.419	8.62		mg/kg dry	11.8	70%	31 - 159	9082986	NSH0586-08RE 1	08/18/09 22:14
Surrogate: 1,2-Dichloroethane-d4		44.0		ug/kg	50.0	88%	67 - 138	9082986	NSH0586-08RE 1	08/18/09 22:14
Surrogate: Dibromofluoromethane		45.2		ug/kg	50.0	90%	75 - 125	9082986	NSH0586-08RE 1	08/18/09 22:14
Surrogate: Toluene-d8		47.4		ug/kg	50.0	95%	76 - 129	9082986	NSH0586-08RE 1	08/18/09 22:14
Surrogate: 4-Bromofluorobenzene		48.1		ug/kg	50.0	96%	67 - 147	9082986	NSH0586-08RE 1	08/18/09 22:14
Polyaromatic Hydrocarbons by EPA 8270D										
9081503-MS1										
Acenaphthene	ND	1.12		mg/kg dry	1.72	65%	42 - 120	9081503	NSH0045-03	08/16/09 22:57
Acenaphthylene	ND	1.09		mg/kg dry	1.72	64%	32 - 120	9081503	NSH0045-03	08/16/09 22:57
Anthracene	ND	1.28		mg/kg dry	1.72	75%	10 - 200	9081503	NSH0045-03	08/16/09 22:57
Benzo (a) anthracene	ND	1.23		mg/kg dry	1.72	72%	41 - 120	9081503	NSH0045-03	08/16/09 22:57
Benzo (a) pyrene	ND	1.36		mg/kg dry	1.72	79%	33 - 121	9081503	NSH0045-03	08/16/09 22:57
Benzo (b) fluoranthene	0.0484	1.46		mg/kg dry	1.72	82%	26 - 137	9081503	NSH0045-03	08/16/09 22:57
Benzo (g,h,i) perylene	ND	0.798		mg/kg dry	1.72	46%	21 - 124	9081503	NSH0045-03	08/16/09 22:57
Benzo (k) fluoranthene	ND	1.34		mg/kg dry	1.72	78%	14 - 140	9081503	NSH0045-03	08/16/09 22:57
Chrysene	ND	1.18		mg/kg dry	1.72	69%	28 - 123	9081503	NSH0045-03	08/16/09 22:57
Dibenz (a,h) anthracene	ND	0.934		mg/kg dry	1.72	54%	25 - 127	9081503	NSH0045-03	08/16/09 22:57
Fluoranthene	0.0429	1.23		mg/kg dry	1.72	69%	38 - 120	9081503	NSH0045-03	08/16/09 22:57
Fluorene	ND	1.30		mg/kg dry	1.72	76%	41 - 120	9081503	NSH0045-03	08/16/09 22:57
Indeno (1,2,3-cd) pyrene	ND	0.915		mg/kg dry	1.72	53%	25 - 123	9081503	NSH0045-03	08/16/09 22:57
Naphthalene	ND	1.03		mg/kg dry	1.72	60%	25 - 120	9081503	NSH0045-03	08/16/09 22:57
Phenanthrene	ND	1.15		mg/kg dry	1.72	67%	37 - 120	9081503	NSH0045-03	08/16/09 22:57
Pyrene	ND	1.27		mg/kg dry	1.72	74%	29 - 125	9081503	NSH0045-03	08/16/09 22:57
1-Methylnaphthalene	ND	1.05		mg/kg dry	1.72	61%	19 - 120	9081503	NSH0045-03	08/16/09 22:57
2-Methylnaphthalene	ND	1.09		mg/kg dry	1.72	64%	11 - 120	9081503	NSH0045-03	08/16/09 22:57
Surrogate: Terphenyl-d14		1.22		mg/kg dry	1.72	71%	18 - 120	9081503	NSH0045-03	08/16/09 22:57
Surrogate: 2-Fluorobiphenyl		0.895		mg/kg dry	1.72	52%	14 - 120	9081503	NSH0045-03	08/16/09 22:57
Surrogate: Nitrobenzene-d5		0.868		mg/kg dry	1.72	51%	17 - 120	9081503	NSH0045-03	08/16/09 22:57

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D										
9081773-MS1										
Acenaphthene	ND	1.74		mg/kg dry	1.77	98%	42 - 120	9081773	NSG2706-01	08/14/09 16:40
Acenaphthylene	ND	1.75		mg/kg dry	1.77	99%	32 - 120	9081773	NSG2706-01	08/14/09 16:40
Anthracene	ND	1.92		mg/kg dry	1.77	108%	10 - 200	9081773	NSG2706-01	08/14/09 16:40
Benzo (a) anthracene	ND	1.78		mg/kg dry	1.77	100%	41 - 120	9081773	NSG2706-01	08/14/09 16:40
Benzo (a) pyrene	ND	1.90		mg/kg dry	1.77	107%	33 - 121	9081773	NSG2706-01	08/14/09 16:40
Benzo (b) fluoranthene	ND	1.89		mg/kg dry	1.77	107%	26 - 137	9081773	NSG2706-01	08/14/09 16:40
Benzo (g,h,i) perylene	ND	1.71		mg/kg dry	1.77	96%	21 - 124	9081773	NSG2706-01	08/14/09 16:40
Benzo (k) fluoranthene	ND	1.76		mg/kg dry	1.77	99%	14 - 140	9081773	NSG2706-01	08/14/09 16:40
Chrysene	ND	1.74		mg/kg dry	1.77	98%	28 - 123	9081773	NSG2706-01	08/14/09 16:40
Dibenz (a,h) anthracene	ND	1.81		mg/kg dry	1.77	102%	25 - 127	9081773	NSG2706-01	08/14/09 16:40
Fluoranthene	ND	1.72		mg/kg dry	1.77	97%	38 - 120	9081773	NSG2706-01	08/14/09 16:40
Fluorene	ND	1.71		mg/kg dry	1.77	96%	41 - 120	9081773	NSG2706-01	08/14/09 16:40
Indeno (1,2,3-cd) pyrene	ND	1.80		mg/kg dry	1.77	101%	25 - 123	9081773	NSG2706-01	08/14/09 16:40
Naphthalene	ND	1.40		mg/kg dry	1.77	79%	25 - 120	9081773	NSG2706-01	08/14/09 16:40
Phenanthrene	ND	1.74		mg/kg dry	1.77	98%	37 - 120	9081773	NSG2706-01	08/14/09 16:40
Pyrene	ND	1.91		mg/kg dry	1.77	108%	29 - 125	9081773	NSG2706-01	08/14/09 16:40
1-Methylnaphthalene	ND	1.41		mg/kg dry	1.77	80%	19 - 120	9081773	NSG2706-01	08/14/09 16:40
2-Methylnaphthalene	ND	1.45		mg/kg dry	1.77	82%	11 - 120	9081773	NSG2706-01	08/14/09 16:40
Surrogate: Terphenyl-d14		1.77		mg/kg dry	1.77	100%	18 - 120	9081773	NSG2706-01	08/14/09 16:40
Surrogate: 2-Fluorobiphenyl		1.44		mg/kg dry	1.77	81%	14 - 120	9081773	NSG2706-01	08/14/09 16:40
Surrogate: Nitrobenzene-d5		1.39		mg/kg dry	1.77	78%	17 - 120	9081773	NSG2706-01	08/14/09 16:40

9082723-MS1

Acenaphthene	ND	1.26		mg/kg wet	1.66	76%	42 - 120	9082723	NSH0575-02RE 1	08/19/09 02:50
Acenaphthylene	ND	1.25		mg/kg wet	1.66	75%	32 - 120	9082723	NSH0575-02RE 1	08/19/09 02:50
Anthracene	ND	1.48		mg/kg wet	1.66	89%	10 - 200	9082723	NSH0575-02RE 1	08/19/09 02:50
Benzo (a) anthracene	ND	1.46		mg/kg wet	1.66	88%	41 - 120	9082723	NSH0575-02RE 1	08/19/09 02:50
Benzo (a) pyrene	ND	1.41		mg/kg wet	1.66	85%	33 - 121	9082723	NSH0575-02RE 1	08/19/09 02:50
Benzo (b) fluoranthene	ND	1.44		mg/kg wet	1.66	87%	26 - 137	9082723	NSH0575-02RE 1	08/19/09 02:50
Benzo (g,h,i) perylene	ND	1.30		mg/kg wet	1.66	78%	21 - 124	9082723	NSH0575-02RE 1	08/19/09 02:50
Benzo (k) fluoranthene	ND	1.27		mg/kg wet	1.66	76%	14 - 140	9082723	NSH0575-02RE 1	08/19/09 02:50
Chrysene	ND	1.38		mg/kg wet	1.66	83%	28 - 123	9082723	NSH0575-02RE 1	08/19/09 02:50

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D										
9082723-MS1										
Dibenz (a,h) anthracene	ND	1.36		mg/kg wet	1.66	82%	25 - 127	9082723	NSH0575-02RE 1	08/19/09 02:50
Fluoranthene	0.111	1.52		mg/kg wet	1.66	84%	38 - 120	9082723	NSH0575-02RE 1	08/19/09 02:50
Fluorene	ND	1.34		mg/kg wet	1.66	81%	41 - 120	9082723	NSH0575-02RE 1	08/19/09 02:50
Indeno (1,2,3-cd) pyrene	ND	1.37		mg/kg wet	1.66	83%	25 - 123	9082723	NSH0575-02RE 1	08/19/09 02:50
Naphthalene	ND	1.06		mg/kg wet	1.66	64%	25 - 120	9082723	NSH0575-02RE 1	08/19/09 02:50
Phenanthrene	0.114	1.53		mg/kg wet	1.66	85%	37 - 120	9082723	NSH0575-02RE 1	08/19/09 02:50
Pyrene	0.128	1.55		mg/kg wet	1.66	85%	29 - 125	9082723	NSH0575-02RE 1	08/19/09 02:50
1-Methylnaphthalene	0.0826	1.21		mg/kg wet	1.66	67%	19 - 120	9082723	NSH0575-02RE 1	08/19/09 02:50
2-Methylnaphthalene	0.104	1.32		mg/kg wet	1.66	73%	11 - 120	9082723	NSH0575-02RE 1	08/19/09 02:50
Surrogate: Terphenyl-d14		1.26		mg/kg wet	1.66	76%	18 - 120	9082723	NSH0575-02RE 1	08/19/09 02:50
Surrogate: 2-Fluorobiphenyl		1.04		mg/kg wet	1.66	62%	14 - 120	9082723	NSH0575-02RE 1	08/19/09 02:50
Surrogate: Nitrobenzene-d5		1.08		mg/kg wet	1.66	65%	17 - 120	9082723	NSH0575-02RE 1	08/19/09 02:50

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B												
9082986-MSD1												
Benzene	ND	2.98		mg/kg dry	3.93	76%	42 - 141	2	50	9082986	NSH0586-08R E1	08/18/09 22:44
Ethylbenzene	ND	2.57		mg/kg dry	3.93	66%	21 - 165	9	50	9082986	NSH0586-08R E1	08/18/09 22:44
Naphthalene	0.475	2.53		mg/kg dry	3.93	52%	10 - 160	9	50	9082986	NSH0586-08R E1	08/18/09 22:44
Toluene	0.237	2.92		mg/kg dry	3.93	68%	45 - 145	3	50	9082986	NSH0586-08R E1	08/18/09 22:44
Xylenes, total	0.419	7.79		mg/kg dry	11.8	63%	31 - 159	10	50	9082986	NSH0586-08R E1	08/18/09 22:44
Surrogate: 1,2-Dichloroethane-d4		43.9		ug/kg	50.0	88%	67 - 138			9082986	NSH0586-08R E1	08/18/09 22:44
Surrogate: Dibromofluoromethane		45.0		ug/kg	50.0	90%	75 - 125			9082986	NSH0586-08R E1	08/18/09 22:44
Surrogate: Toluene-d8		47.1		ug/kg	50.0	94%	76 - 129			9082986	NSH0586-08R E1	08/18/09 22:44
Surrogate: 4-Bromofluorobenzene		47.7		ug/kg	50.0	95%	67 - 147			9082986	NSH0586-08R E1	08/18/09 22:44
Polyaromatic Hydrocarbons by EPA 8270D												
9081503-MSD1												
Acenaphthene	ND	0.964		mg/kg dry	1.71	56%	42 - 120	15	40	9081503	NSH0045-03	08/16/09 23:27
Acenaphthylene	ND	0.975		mg/kg dry	1.71	57%	32 - 120	12	30	9081503	NSH0045-03	08/16/09 23:27
Anthracene	ND	1.07		mg/kg dry	1.71	62%	10 - 200	18	50	9081503	NSH0045-03	08/16/09 23:27
Benzo (a) anthracene	ND	1.05		mg/kg dry	1.71	61%	41 - 120	16	30	9081503	NSH0045-03	08/16/09 23:27
Benzo (a) pyrene	ND	1.15		mg/kg dry	1.71	67%	33 - 121	17	33	9081503	NSH0045-03	08/16/09 23:27
Benzo (b) fluoranthene	0.0484	1.18		mg/kg dry	1.71	66%	26 - 137	21	42	9081503	NSH0045-03	08/16/09 23:27
Benzo (g,h,i) perylene	ND	0.766		mg/kg dry	1.71	45%	21 - 124	4	32	9081503	NSH0045-03	08/16/09 23:27
Benzo (k) fluoranthene	ND	1.15		mg/kg dry	1.71	67%	14 - 140	15	39	9081503	NSH0045-03	08/16/09 23:27
Chrysene	ND	1.01		mg/kg dry	1.71	59%	28 - 123	15	34	9081503	NSH0045-03	08/16/09 23:27
Dibenz (a,h) anthracene	ND	0.901		mg/kg dry	1.71	53%	25 - 127	4	31	9081503	NSH0045-03	08/16/09 23:27
Fluoranthene	0.0429	1.05		mg/kg dry	1.71	59%	38 - 120	16	35	9081503	NSH0045-03	08/16/09 23:27
Fluorene	ND	1.11		mg/kg dry	1.71	65%	41 - 120	16	37	9081503	NSH0045-03	08/16/09 23:27
Indeno (1,2,3-cd) pyrene	ND	0.876		mg/kg dry	1.71	51%	25 - 123	4	32	9081503	NSH0045-03	08/16/09 23:27
Naphthalene	ND	0.915		mg/kg dry	1.71	53%	25 - 120	12	42	9081503	NSH0045-03	08/16/09 23:27
Phenanthrene	ND	0.992		mg/kg dry	1.71	58%	37 - 120	15	32	9081503	NSH0045-03	08/16/09 23:27
Pyrene	ND	1.06		mg/kg dry	1.71	62%	29 - 125	18	40	9081503	NSH0045-03	08/16/09 23:27
1-Methylnaphthalene	ND	0.916		mg/kg dry	1.71	54%	19 - 120	14	45	9081503	NSH0045-03	08/16/09 23:27
2-Methylnaphthalene	ND	0.959		mg/kg dry	1.71	56%	11 - 120	13	50	9081503	NSH0045-03	08/16/09 23:27
Surrogate: Terphenyl-d14		1.06		mg/kg dry	1.71	62%	18 - 120			9081503	NSH0045-03	08/16/09 23:27
Surrogate: 2-Fluorobiphenyl		0.854		mg/kg dry	1.71	50%	14 - 120			9081503	NSH0045-03	08/16/09 23:27
Surrogate: Nitrobenzene-d5		0.790		mg/kg dry	1.71	46%	17 - 120			9081503	NSH0045-03	08/16/09 23:27
9081773-MSD1												
Acenaphthene	ND	1.71		mg/kg dry	1.82	94%	42 - 120	2	40	9081773	NSG2706-01	08/14/09 17:03

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D												
9081773-MSD1												
Acenaphthylene	ND	1.75		mg/kg dry	1.82	96%	32 - 120	0.1	30	9081773	NSG2706-01	08/14/09 17:03
Anthracene	ND	1.91		mg/kg dry	1.82	105%	10 - 200	0.4	50	9081773	NSG2706-01	08/14/09 17:03
Benzo (a) anthracene	ND	1.82		mg/kg dry	1.82	100%	41 - 120	2	30	9081773	NSG2706-01	08/14/09 17:03
Benzo (a) pyrene	ND	1.87		mg/kg dry	1.82	102%	33 - 121	2	33	9081773	NSG2706-01	08/14/09 17:03
Benzo (b) fluoranthene	ND	2.03		mg/kg dry	1.82	111%	26 - 137	7	42	9081773	NSG2706-01	08/14/09 17:03
Benzo (g,h,i) perylene	ND	1.74		mg/kg dry	1.82	95%	21 - 124	2	32	9081773	NSG2706-01	08/14/09 17:03
Benzo (k) fluoranthene	ND	1.59		mg/kg dry	1.82	87%	14 - 140	10	39	9081773	NSG2706-01	08/14/09 17:03
Chrysene	ND	1.73		mg/kg dry	1.82	95%	28 - 123	0.5	34	9081773	NSG2706-01	08/14/09 17:03
Dibenz (a,h) anthracene	ND	1.82		mg/kg dry	1.82	100%	25 - 127	0.6	31	9081773	NSG2706-01	08/14/09 17:03
Fluoranthene	ND	1.72		mg/kg dry	1.82	94%	38 - 120	0.06	35	9081773	NSG2706-01	08/14/09 17:03
Fluorene	ND	1.72		mg/kg dry	1.82	94%	41 - 120	0.8	37	9081773	NSG2706-01	08/14/09 17:03
Indeno (1,2,3-cd) pyrene	ND	1.78		mg/kg dry	1.82	98%	25 - 123	1	32	9081773	NSG2706-01	08/14/09 17:03
Naphthalene	ND	1.36		mg/kg dry	1.82	75%	25 - 120	3	42	9081773	NSG2706-01	08/14/09 17:03
Phenanthrene	ND	1.71		mg/kg dry	1.82	94%	37 - 120	2	32	9081773	NSG2706-01	08/14/09 17:03
Pyrene	ND	1.90		mg/kg dry	1.82	104%	29 - 125	0.6	40	9081773	NSG2706-01	08/14/09 17:03
1-Methylnaphthalene	ND	1.40		mg/kg dry	1.82	77%	19 - 120	0.9	45	9081773	NSG2706-01	08/14/09 17:03
2-Methylnaphthalene	ND	1.41		mg/kg dry	1.82	77%	11 - 120	3	50	9081773	NSG2706-01	08/14/09 17:03
Surrogate: Terphenyl-d14		1.78		mg/kg dry	1.82	98%	18 - 120			9081773	NSG2706-01	08/14/09 17:03
Surrogate: 2-Fluorobiphenyl		1.42		mg/kg dry	1.82	78%	14 - 120			9081773	NSG2706-01	08/14/09 17:03
Surrogate: Nitrobenzene-d5		1.39		mg/kg dry	1.82	76%	17 - 120			9081773	NSG2706-01	08/14/09 17:03
9082723-MSD1												
Acenaphthene	ND	1.20		mg/kg wet	1.65	73%	42 - 120	5	40	9082723	NSH0575-02R E1	08/19/09 03:14
Acenaphthylene	ND	1.22		mg/kg wet	1.65	74%	32 - 120	3	30	9082723	NSH0575-02R E1	08/19/09 03:14
Anthracene	ND	1.38		mg/kg wet	1.65	84%	10 - 200	7	50	9082723	NSH0575-02R E1	08/19/09 03:14
Benzo (a) anthracene	ND	1.31		mg/kg wet	1.65	79%	41 - 120	11	30	9082723	NSH0575-02R E1	08/19/09 03:14
Benzo (a) pyrene	ND	1.32		mg/kg wet	1.65	80%	33 - 121	7	33	9082723	NSH0575-02R E1	08/19/09 03:14
Benzo (b) fluoranthene	ND	1.36		mg/kg wet	1.65	82%	26 - 137	6	42	9082723	NSH0575-02R E1	08/19/09 03:14
Benzo (g,h,i) perylene	ND	1.24		mg/kg wet	1.65	75%	21 - 124	4	32	9082723	NSH0575-02R E1	08/19/09 03:14
Benzo (k) fluoranthene	ND	1.18		mg/kg wet	1.65	71%	14 - 140	7	39	9082723	NSH0575-02R E1	08/19/09 03:14
Chrysene	ND	1.25		mg/kg wet	1.65	75%	28 - 123	10	34	9082723	NSH0575-02R E1	08/19/09 03:14
Dibenz (a,h) anthracene	ND	1.29		mg/kg wet	1.65	78%	25 - 127	5	31	9082723	NSH0575-02R E1	08/19/09 03:14
Fluoranthene	0.111	1.39		mg/kg wet	1.65	77%	38 - 120	9	35	9082723	NSH0575-02R E1	08/19/09 03:14
Fluorene	ND	1.27		mg/kg wet	1.65	77%	41 - 120	6	37	9082723	NSH0575-02R E1	08/19/09 03:14

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D												
9082723-MSD1												
Indeno (1,2,3-cd) pyrene	ND	1.27		mg/kg wet	1.65	77%	25 - 123	8	32	9082723	NSH0575-02R E1	08/19/09 03:14
Naphthalene	ND	0.938		mg/kg wet	1.65	57%	25 - 120	13	42	9082723	NSH0575-02R E1	08/19/09 03:14
Phenanthrene	0.114	1.38		mg/kg wet	1.65	77%	37 - 120	11	32	9082723	NSH0575-02R E1	08/19/09 03:14
Pyrene	0.128	1.47		mg/kg wet	1.65	81%	29 - 125	5	40	9082723	NSH0575-02R E1	08/19/09 03:14
1-Methylnaphthalene	0.0826	1.04		mg/kg wet	1.65	58%	19 - 120	15	45	9082723	NSH0575-02R E1	08/19/09 03:14
2-Methylnaphthalene	0.104	1.10		mg/kg wet	1.65	60%	11 - 120	19	50	9082723	NSH0575-02R E1	08/19/09 03:14
<i>Surrogate: Terphenyl-d14</i>		1.25		mg/kg wet	1.65	76%	18 - 120			9082723	NSH0575-02R E1	08/19/09 03:14
<i>Surrogate: 2-Fluorobiphenyl</i>		1.01		mg/kg wet	1.65	61%	14 - 120			9082723	NSH0575-02R E1	08/19/09 03:14
<i>Surrogate: Nitrobenzene-d5</i>		1.04		mg/kg wet	1.65	63%	17 - 120			9082723	NSH0575-02R E1	08/19/09 03:14

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

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

CERTIFICATION SUMMARY

TestAmerica Nashville

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

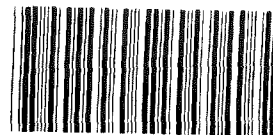
Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwee

Work Order: NSH0586
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/07/09 08:00

DATA QUALIFIERS AND DEFINITIONS

E Concentration exceeds the calibration range and therefore result is semi-quantitative.
J Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).
Concentrations within this range are estimated.
L Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
ZX Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
ND Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES



NSH0586

Cooler Received/Opened On 08/7/09 @ 08:00

1. Tracking # 5325 (last 4 digits, FedEx)

Courier: Fed Ex IR Gun ID 96210146

2. Temperature of rep. sample or temp blank when opened: 2.2 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 from

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) [Signature]

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 #

I certify that I unloaded the cooler and answered questions 7-14 (initial) [Signature]

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) [Signature]

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) [Signature]

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

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

TestAmerica

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

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

NSH0586

08/21/09 23 59

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

Compliance Monitoring? Yes ☐ No ☐
Enforcement Action? Yes ☐ No ☐

Client Name/Account #: EEG # 2449

Address: 10179 Highway 78

City/State/Zip: Ladson, SC 29456

Project Manager: Tom McElwee email: mcelwee@eeginc.net

Telephone Number: 843.412.2097

Fax No.: 843-879-0401

Sampler Name: (Print) PRATHAPAN

Sampler Signature: *[Signature]*

Site State: SC

PO#: 0829

TA Quote #:

Project ID: Laurel Bay Housing Project

Project #:

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Ice	Preservative						Matrix						Analyze For:										RUSH TAT (Pre-Schedule)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
								HNO ₃ (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO ₄ Glass (Yellow Label)	None (Black Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	BTEX + Naphth - 8260B	PAH - 8270D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

Special Instructions:

Method of Shipment: FEDEX					
Relinquished by: <i>[Signature]</i>	Date: 8/6/09	Time: 1900	Received by: <i>[Signature]</i>	Date: 8/7	Time: 8:00
Relinquished by:	Date:	Time:	Received by TestAmerica:	Date:	Time:

Laboratory Comments:

Temperature Upon Receipt:
VOCs Free of Headspace?

Y

ATTACHMENT A



NON-HAZARDOUS MANIFEST

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

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of 1					
3. Generator's Name and Mailing Address MCAS, Beaufort Laurel Bay Housing Beaufort SC 29906				A. Manifest Number WMNA 10835468							
4. Generator's Phone 843 228-6400				B. State Generator's ID							
5. Transporter 1 Company Name EEG, Inc.		6. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone 843 879-0411					
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone					
9. Designated Facility Name and Site Address HICKORY HILL LANDFILL ROUTE 1, BOX 121 RIDGELAND SC 29936		10. US EPA ID Number		G. State Facility's ID		H. Facility's Phone 843 987-4643					
11. Description of Waste Materials				12. Containers		13. Total Quantity		14. Unit Wt./Vol.		1. Misc. Comments	
a. Heating Oil Tank filled with Sand				No. Type		1028		TV			
WM Profile # 102055SC				0 0 1							
b.											
WM Profile #											
c.											
WM Profile #											
d.											
WM Profile #											
J. Additional Descriptions for Materials Listed Above				K. Disposal Location							
Landfill _____ Solidification _____				Cell _____ Level _____							
Bio Remediation _____				Grid _____							
15. Special Handling Instructions and Additional Information GCH UST's from 3) 1437 Dove ✓ 1449 Dove ✓ 4) 1453 Cardinal ✓ Purchase Order # 3) 1434 Dove ✓ EMERGENCY CONTACT: 5) 1454 Cardinal ✓ 6) 1457 Cardinal ✓											
16. GENERATOR'S CERTIFICATION: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.											
Printed/Typed Name D.E. Dubord				Signature "On behalf of" [Signature]				Month Day Year 08/26/09			
17. Transporter 1 Acknowledgement of Receipt of Materials											
Printed/Typed Name				Signature				Month Day Year			
18. Transporter 2 Acknowledgement of Receipt of Materials											
Printed/Typed Name James Baldwin				Signature James Baldwin				Month Day Year 09/01/09			
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.											
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest											
Printed/Typed Name Jan Collins				Signature [Signature]				Month Day Year 09/01/09			

Appendix C
Laboratory Analytical Report - Groundwater

Volatile Organic Compounds by GC/MS

Client: AECOM - Resolution Consultants				Laboratory ID: QF24009-015			
Description: BEALB1453TW01WG20150623				Matrix: Aqueous			
Date Sampled: 06/23/2015 1355							
Date Received: 06/24/2015							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/06/2015 1446	EH1		78858

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzene	71-43-2	8260B	0.45	U	5.0	0.45	0.21	ug/L	1
Ethylbenzene	100-41-4	8260B	0.51	U	5.0	0.51	0.21	ug/L	1
Naphthalene	91-20-3	8260B	0.96	U	5.0	0.96	0.14	ug/L	1
Toluene	108-88-3	8260B	0.48	U	5.0	0.48	0.24	ug/L	1
Xylenes (total)	1330-20-7	8260B	0.57	U	5.0	0.57	0.19	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		103	75-120
1,2-Dichloroethane-d4		98	70-120
Toluene-d8		107	85-120
Dibromofluoromethane		98	85-115

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

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

Semivolatile Organic Compounds by GC/MS (SIM)

Client: AECOM - Resolution Consultants	Laboratory ID: QF24009-015
Description: BEALB1453TW01WG20150623	Matrix: Aqueous
Date Sampled: 06/23/2015 1355	
Date Received: 06/24/2015	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D (SIM)	1	07/08/2015 1833	DRB1	06/25/2015 1604	78141

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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Methylnaphthalene-d10		87	15-139
Fluoranthene-d10		63	23-154

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

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

Appendix D
Laboratory Analytical Report - Vapor

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: AECOM

Client Sample ID: BEALB1453SG01GS20160510

Client Project ID: WE56 LBMH Soil Vapor Assesments / 60342031.FI.WI

ALS Project ID: P1602451

ALS Sample ID: P1602451-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: SC02062

Date Collected: 5/10/16

Date Received: 5/11/16

Date Analyzed: 5/17/16

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.13 Final Pressure (psig): 3.63

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m ³	LOQ µg/m ³	LOD µg/m ³	MDL µg/m ³	Data Qualifier
71-43-2	Benzene	0.64	0.73	0.64	0.23	U
108-88-3	Toluene	0.48	0.73	0.61	0.25	J
100-41-4	Ethylbenzene	0.61	0.73	0.61	0.23	U
179601-23-1	m,p-Xylenes	0.49	1.5	1.2	0.44	J
95-47-6	o-Xylene	0.22	0.73	0.60	0.22	J
91-20-3	Naphthalene	1.1	0.73	0.58	0.26	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

Appendix E

Regulatory Correspondence



W. Marshall Taylor Jr., Acting Director

Promoting and protecting the health of the public and the environment

April 7, 2015

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

RE: IGWA
Laurel Bay Underground Storage Tank Assessment Reports for:
See attached sheet

Dear Mr. Drawdy,

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

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

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

If you have any questions, please contact me at kriegkm@dhec.sc.gov 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)



Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

Attachment to: Krieg to Drawdy
Subject: IGWA
Dated 4/7/2015

Laurel Bay Underground Storage Tank Assessment Reports for: (18 addresses/19 tanks)

1186 Bobwhite	1417 Albatross
1194 Cardinal	1420 Dove
1354 Cardinal	1421 Albatross Tank 1
1362 Cardinal	1421 Albatross Tank 2
1364 Cardinal Tank 1	1427 Albatross
1403 Eagle	1429 Albatross
1404 Eagle	1444 Dove Tank 1
1405 Eagle	1453 Cardinal
1408 Eagle	1455 Cardinal
1410 Eagle	



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

Division of Waste Management
Bureau of Land and Waste Management

February 22, 2016

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

RE: Approval and Concurrence with Draft Final Initial Groundwater Investigation Report-May and June 2015
Laurel Bay Military Housing Area Multiple Properties
Dated October 2015

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received groundwater data in the above referenced Groundwater Investigation Report for the addresses attached. The regulatory authority for the investigation and cleanup of releases from these tank systems is the South Carolina Pollution Control Act (S.C. Code Ann. §48-1-10 et seq., as amended).

Per the Department's request, groundwater samples were collected from the attached referenced addresses. The Department reviewed the groundwater data and previous investigations and it agrees with the conclusions and recommendations included in the document. To further assess the impact to groundwater, permanent wells should be installed at the 52 stated addresses. For the remaining 91 addresses, there is no indication of contamination on the property and therefore no further investigation is required at this time.

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

If you have any questions, please contact me at petruslb@dhec.sc.gov or 803-898-0294.

Sincerely,

Laurel Petrus
RCRA Federal Facilities Section

Attachment: Specific Property Recommendations

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

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

Draft Final Initial Groundwater Investigation Report for (143 addresses)

Permanent Monitoring Well Investigation recommendation (52 addresses)

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

No Further Action recommendation (91 addresses):

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

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



June 20, 2017

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

RE: Approval Response to Comments and Draft Final Revision 1 Vapor Intrusion Report July 2015, January 2016 and May 2016, Laurel Bay Military Housing Area, Multiple Properties

RE: Approval Response to Comments and Draft Final Revision 1 Letter Report - Petroleum Vapor Intrusion Investigations - June 2016 and January 2017, Multiple Properties, Laurel Bay Military Housing Area

Dear Mr. Drawdy:

The South Carolina Department of Health and Environmental Control (DHEC) received the above referenced response to comments and errata pages on May 24 and June 7, 2017. 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).

DHEC has reviewed the response to comments and errata pages. Based on this review, DHEC did not generate any additional comments. Please note that the Department's decision is based on information provided by the Marine Corps Air Station (MCAS) to date. Any information found to be contradictory to this decision may require additional action. Furthermore, the Department retains the right to request further investigation if deemed necessary. If you have any questions, please contact me at petruslb@dhec.sc.gov or 803-898-0294.

Sincerely,

Laurel Petrus
Department of Defense Corrective Action Section

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