SUMMARY REPORT
459 WEST CARDINAL LANE (FORMERLY 1364 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 202**1**

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Prepared by:

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

Contract Number: N62470-14-D-9016
CTO WE52
JUNE 202**1**

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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
RSL	regional 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 459 West Cardinal Lane (Formerly 1364 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 459 West Cardinal Lane (Formerly 1364 West Cardinal Lane). The sampling activities at 459 West Cardinal Lane (Formerly 1364 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 – 1364 West Cardinal Lane* (MCAS Beaufort, 2011). The UST Assessment Report is provided in Appendix B. Details regarding the IGWA sampling activities at this site are provided in the *Initial Groundwater Investigation Report – 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

In April 2011, two 280 gallon heating oil USTs were removed from the landscaped area adjacent to the driveway at 459 West Cardinal Lane (Formerly 1364 West Cardinal Lane). Tank 1 was removed on April 7, 2011. Tank 2 was removed on April 11, 2011. The former UST locations are indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The USTs were 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 USTs removal. According to the UST Assessment Report (Appendix B), the depths to the bases of the USTs were 5'8" bgs (Tank 1) and 4'6" bgs (Tank 2) and a single soil sample was collected for each at that depth. The samples were collected from the fill port side of the former USTs to represent a worst case scenario.

Following UST removals, a soil sample was collected from the bases of the excavations 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 locations (Tanks 1 and 2) 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 the former UST location (Tank 1) at 459 West Cardinal Lane (Formerly 1364 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 459 West Cardinal Lane (Formerly 1364 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 459 West Cardinal Lane (Formerly 1364 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 (Tank 1). 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 459 West Cardinal Lane (Formerly 1364 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 July 27, 2015, a temporary subsurface soil gas well was installed at 459 West Cardinal Lane (Formerly 1364 West Cardinal Lane) in accordance with the SCDHEC approved *Uniform Federal Policy Sampling and Analysis Plan (UFP SAP) for Vapor Media, Revision 1* (Resolution Consultants, 2015). 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 the former UST locations. The soil gas well was placed in the same general location as the former heating oil UST (Tank 1) 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 459 West Cardinal Lane (Formerly 1364 West Cardinal Lane) was sampled on July 30, 2015. 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 1* (Resolution Consultants, 2015). 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, USEPA (United States Environmental Protection Agency) VISLs, calculated building concentrations, and USEPA regional screening levels (RSLs) for residential air are presented in Table 3. The screening levels used for evaluation were those levels that were in effect at the time of reporting and review by SCDHEC. A copy of the laboratory analytical data report is included in Appendix D.

The soil gas results collected from 459 West Cardinal Lane (Formerly 1364 West Cardinal Lane) were above the USEPA VISLs. However, the building concentrations calculated for each COPC

with an exceedance of its respective USEPA VISL from 459 West Cardinal Lane (Formerly 1364 West Cardinal Lane) were below the USEPA RSLs, 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 459 West Cardinal Lane (Formerly 1364 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 459 West Cardinal Lane (Formerly 1364 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 459 West Cardinal Lane (Formerly 1364 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, 2011. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 1364 West Cardinal Lane, Laurel Bay Military Housing Area*, June 2011.

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, 2015. *Uniform Federal Policy Sampling and Analysis Plan for Vapor Media, Revision 1, for Laurel Bay Military Housing Area Marine Corps Air Station Beaufort, Beaufort, South Carolina*, April 2015.

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. *Regional Screening Levels Summary Table – Resident Air,* June 2015.

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
459 West Cardinal Lane (Formerly 1364 West Cardinal Lane)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs [1]	Results Samples Collected 04/07/11 and 04/11/11	
		1364 Cardinal-1 04/07/11	1364 Cardinal-2 04/11/11
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)			
Benzene	0.007	**0.0965**	ND
Ethylbenzene	1.15	**1.65**	ND
Naphthalene	0.036	**13.4**	**0.0153**
Toluene	1.45	**0.515**	ND
Xylenes, Total	14.5	**10.6**	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)			
Benzo(a)anthracene	0.066	**2.86**	ND
Benzo(b)fluoranthene	0.066	**1.62**	ND
Benzo(k)fluoranthene	0.066	**1.95**	ND
Chrysene	0.066	**3.64**	ND
Dibenz(a,h)anthracene	0.066	ND	ND

Notes:
[1] South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 1.1 (SCDHEC, February 2011).
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
459 West Cardinal Lane (Formerly 1364 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 06/24/15
Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)			
Benzene	5	16.24	ND
Ethylbenzene	700	45.95	ND
Naphthalene	25	29.33	**1.5**
Toluene	1000	105,445	ND
Xylenes, Total	10,000	2,133	**0.83**
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 $1x10^{-6}$, 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
459 West Cardinal Lane (Formerly 1364 West Cardinal Lane)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	USEPA VISL [1]	Soil Gas Results Sample Collected 07/30/15	USEPA RSL [2]	Calculated Building Concentrations [3]
Volatile Organic Compounds Analyzed by USEPA Method TO-15 (µg/m^3)				
Benzene	12	**2.9**	NA	NA
Toluene	17000	**7.1**	NA	NA
Ethylbenzene	37	**45**	1.1	**0.0034**
m,p-Xylenes	350	**110**	NA	NA
o-Xylene	350	**110**	NA	NA
Naphthalene	2.8	**27**	0.083	**0.002**

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 or a residual exposure scenario and a target risk level of 1x10-6 and a hazard quotient of 0.1.

[2] United States Environmental Protection Agency Regional Screening Levels for Residential Air from the USEPA RSL Table (June 2015), based on a target risk level of 1x10-6 for carcinogens, a target hazard quotient of 0.1 for noncarcinogens, and exposure duration of 26 years.

[3] Building concentrations are calculated using Johnson and Ettinger Soil Gas-Advanced Model for vapor intrusion into buildings (USEPA 2004).

Bold font indicates the analyte was detected.

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

NA - not applicable

RSL - Regional Screening Level

The vapor laboratory report is provided in Appendix D.

µg/m^3 - micrograms per cubic meter

USEPA - United States Environmental Protection Agency

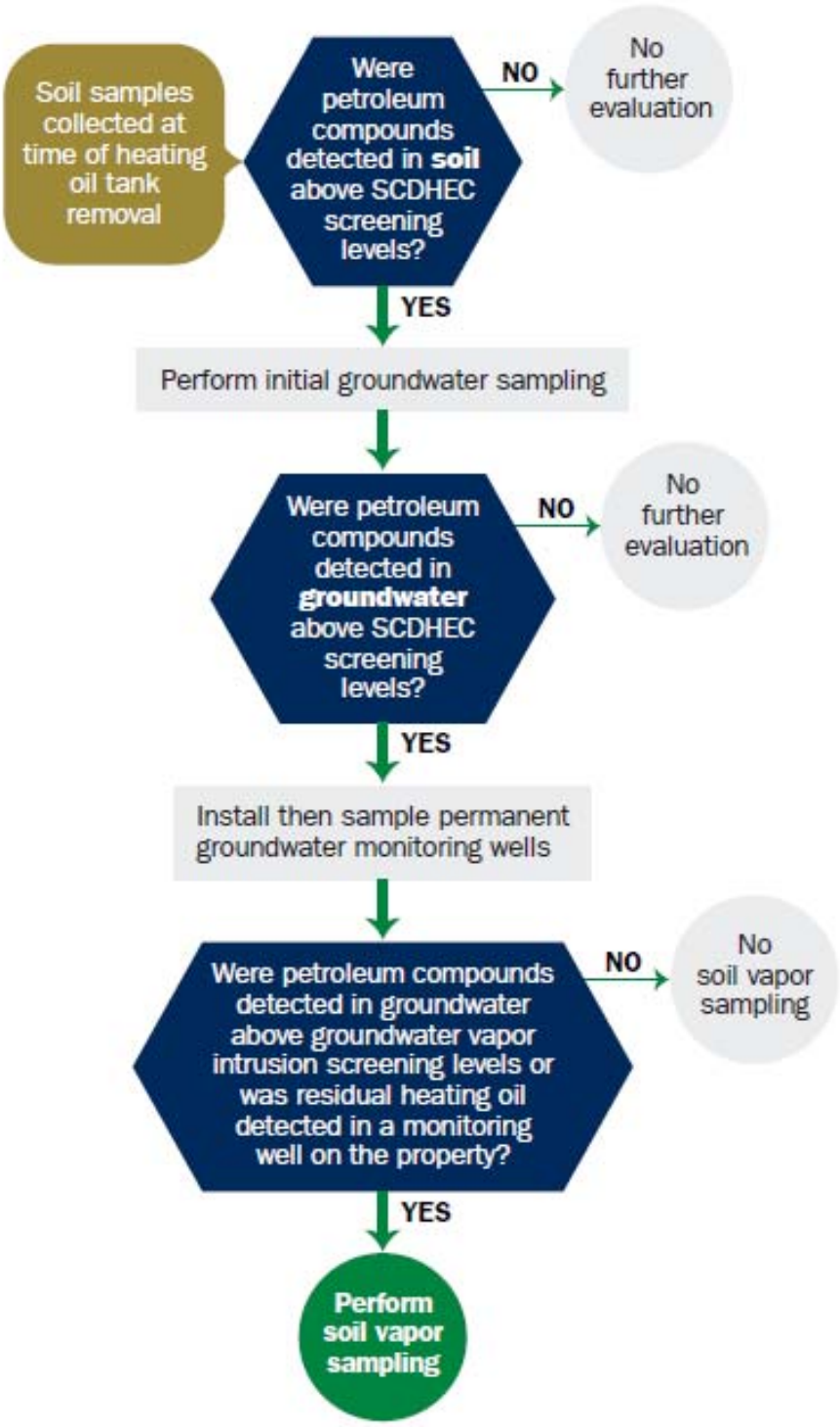
VISL - Vapor Intrusion Screening Level

Appendix A

Multi-Media Selection Process for LBMH

CDM - AECOM

Multimedia Joint Venture



Appendix A - Multi-Media Selection Process for LBMH

Appendix B
UST Assessment Report

CDM - AECOM
Multimedia Joint Venture

rec'd 6-23-11

Attachment 1

South Carolina Department of Health and Environmental Control (SCDHEC)

Underground Storage Tank (UST) Assessment Report

Date Received

State Use Only

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

I. OWNERSHIP OF UST (S)

MCAS Beaufort, Commanding Officer Attn: NREAO (Craig Ehde)
Owner Name (Corporation, Individual, Public Agency, Other)

P.O. Box 55001
Mailing Address

Beaufort,	South Carolina	29904-5001
City	State	Zip Code

843	228-7317	Craig Ehde
Area Code	Telephone Number	Contact Person

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. #

Laurel Bay Military Housing Area, Marine Corps Air Station, Beaufort, SC
Facility Name or Company Site Identifier

1364 Cardinal Lane, Laurel Bay Military Housing Area
Street Address or State Road (as applicable)

Beaufort,	Beaufort
City	County

Attachment 2

III. INSURANCE INFORMATION

Insurance Statement

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

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

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

My policy provider is:_____
The policy deductible is: _____
The policy limit is: _____

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

IV. REQUEST FOR SUPERB FUNDING

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

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

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

_____
Name (Type or print.)

_____
Signature

To be completed by Notary Public:

Sworn before me this _____ day of_____, 20____

_____
(Name)

Notary Public for the state of_____.
Please affix State seal if you are commissioned outside South Carolina

VI. UST INFORMATION

1364 Cardinal-1	1364 Cardinal-2	
Heating oil	Heating oil	
280 gal	280 gal	
Late 1950s	Late 1950s	
Steel	Steel	
Mid 80s	Mid 80s	
5'8"	4'6"	
No	No	
No	No	
Removed	Removed	
4/7/11	4/11/11	
Yes	Yes	
Yes	Yes	

A. Product...(ex. Gas, Kerosene).....

B. Capacity..(ex. 1k, 2k).....

C. Age.....

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

E. Month/Year of Last Use.....

F. Depth (ft.) To Base of Tank.....

G. Spill Prevention Equipment Y/N.....

H. Overfill Prevention Equipment Y/N.....

I. Method of Closure Removed/Filled.....

J. Date Tanks Removed/Filled.....

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

L. Visible Holes Y/N.....

M. Method of disposal for any USTs removed from the ground (attach disposal manifests)

UST 1364Cardinal-1 was removed from the ground, cleaned and recycled.

UST 1364Cardinal-2 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)

Contaminated water was pumped from UST 1364Cardinal-1 and disposed of by MCAS.

UST 1364Cardinal-2 was previously filled with sand by others.

O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST

Corrosion, pitting and holes were found in both tanks.

VII. PIPING INFORMATION

1364 Cardinal-1	1364 Cardinal-2	
Steel & Copper	Steel & Copper	
N/A	N/A	
N/A	N/A	
Suction	Suction	
Yes	Yes	
Yes	Yes	
No	No	
Late 1950s	Late 1950s	

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.

Steel vent piping for both tanks were corroded and pitted. All copper supply and return piping were sound.

VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

IX. SITE CONDITIONS

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

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
1364 Card'-1	Excav at fill end	Soil	Sandy	5'8"	4/7/11 1515 hrs	P. Shaw	
1364 Card'-2	Excav at fill end	Soil	Sandy	4'6"	4/11/11 1030 hrs	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

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

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

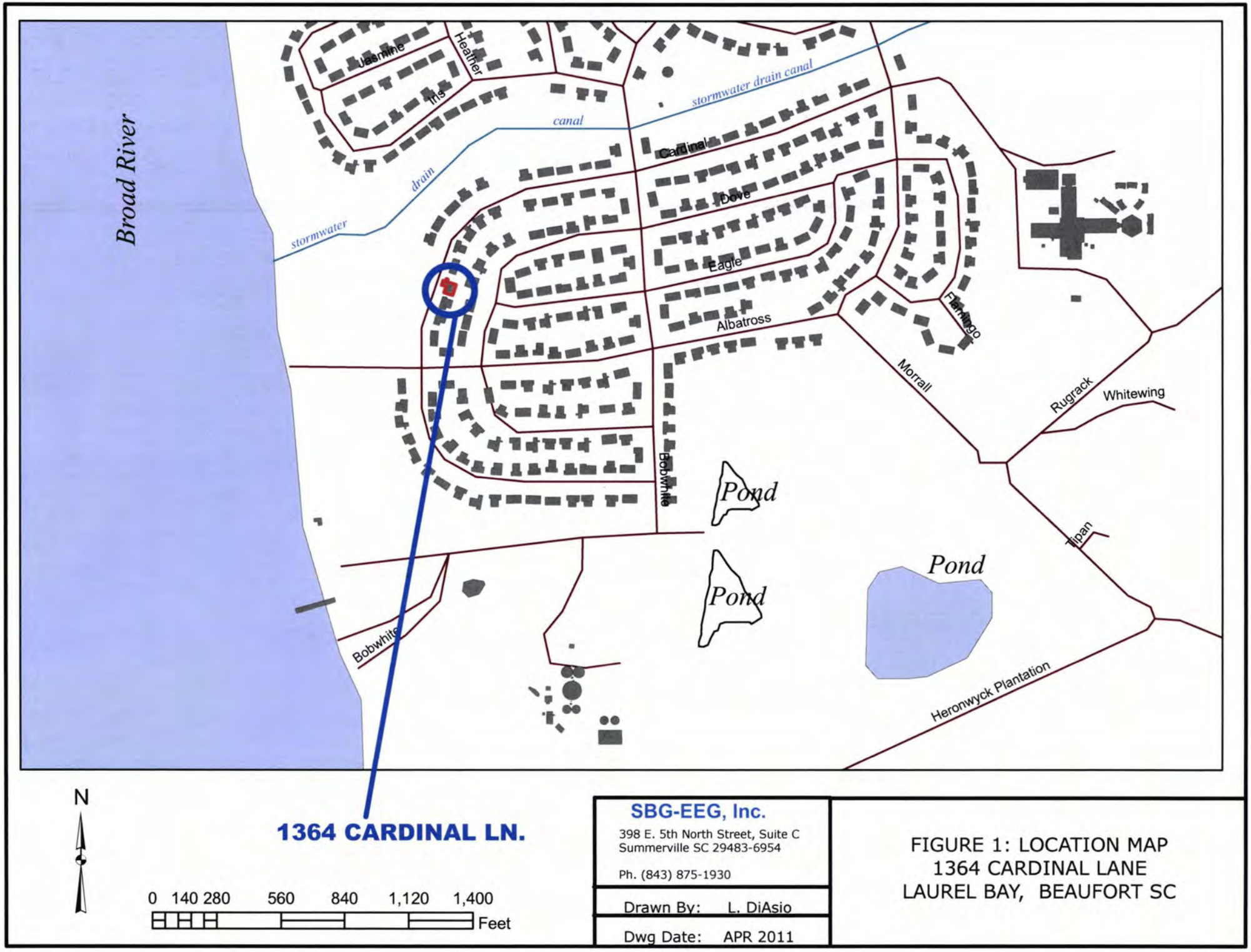
XII. RECEPTORS

		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? *~400' stormwater drainage canal and ~800' Broad R. 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 and 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 <u>scaled</u> site map. It should include all buildings, road names, utilities, tank and dispenser island locations, labeled sample locations, extent of excavation, and any other pertinent information.

(Attach Site Map Here)

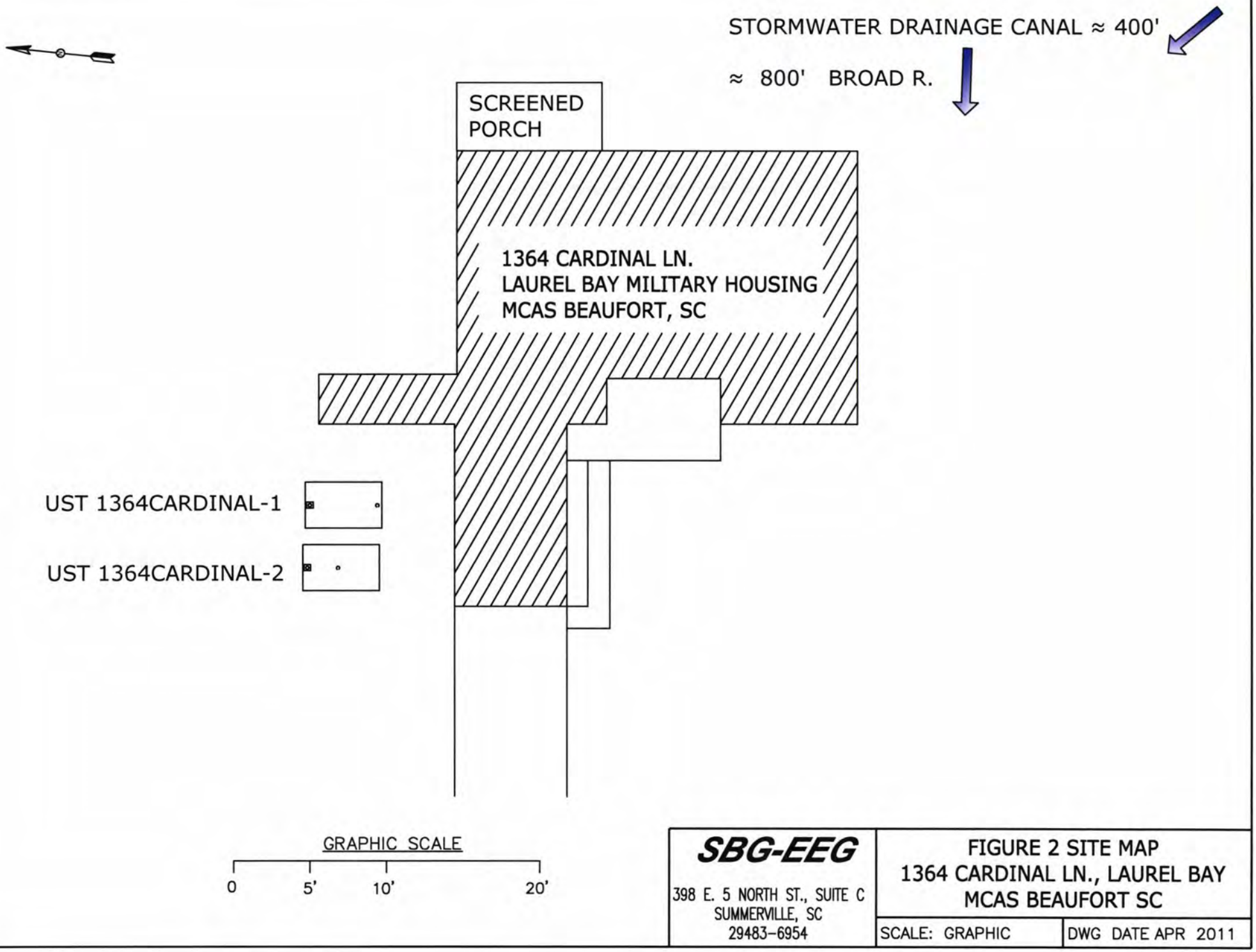


SBG-EEG, Inc.
398 E. 5th North Street, Suite C
Summerville SC 29483-6954
Ph. (843) 875-1930

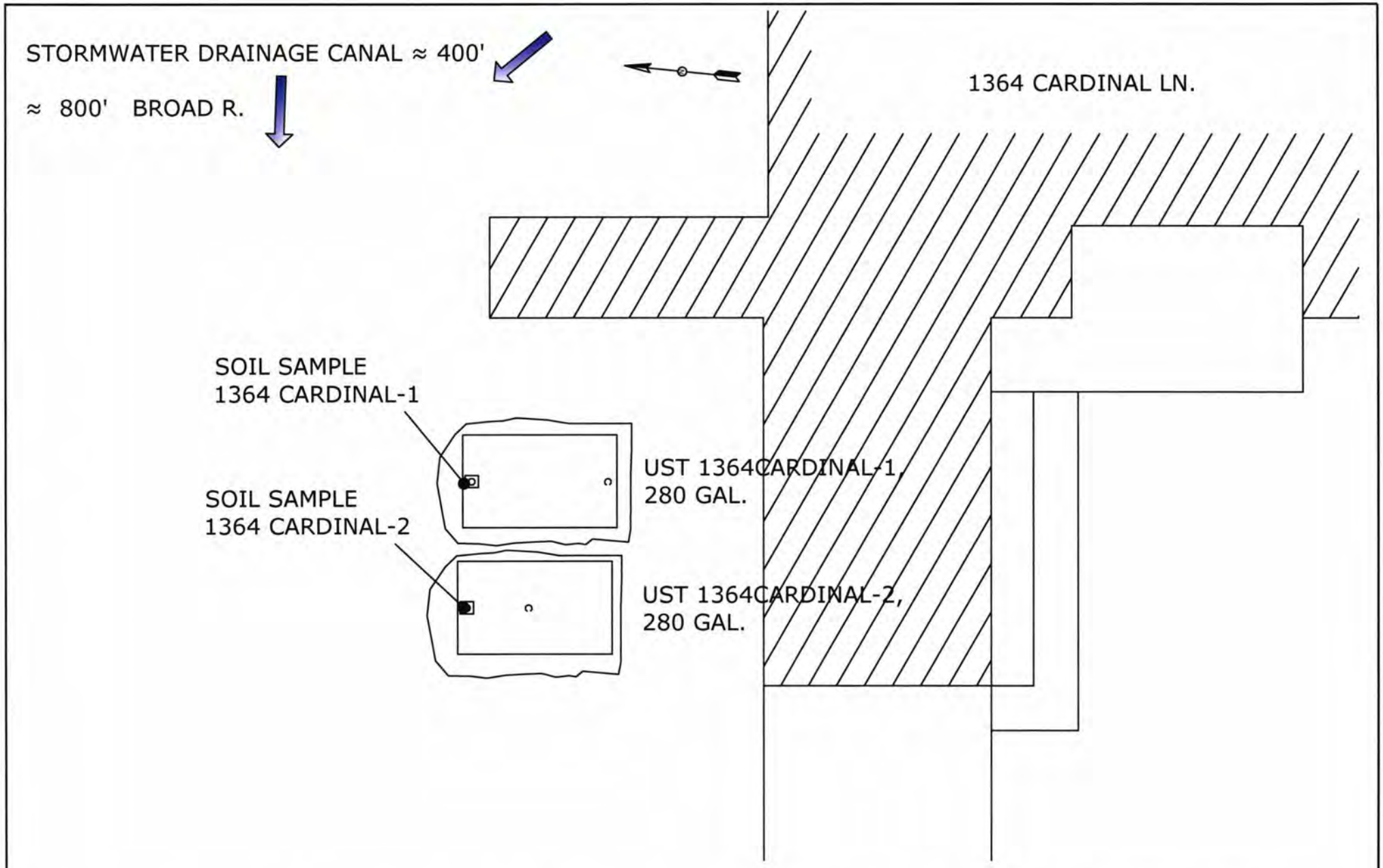
Drawn By: L. DiAsio

Dwg Date: APR 2011

FIGURE 1: LOCATION MAP
1364 CARDINAL LANE
LAUREL BAY, BEAUFORT SC



SBG-EEG 398 E. 5 NORTH ST., SUITE C SUMMERVILLE, SC 29483-6954	FIGURE 2 SITE MAP 1364 CARDINAL LN., LAUREL BAY MCAS BEAUFORT SC
	SCALE: GRAPHIC | DWG DATE APR 2011



GRAPHIC SCALE
0 5'

TANK DEPTH BELOW GRADE
1364CARDINAL-1 = 32"
1364CARDINAL-2 = 18"

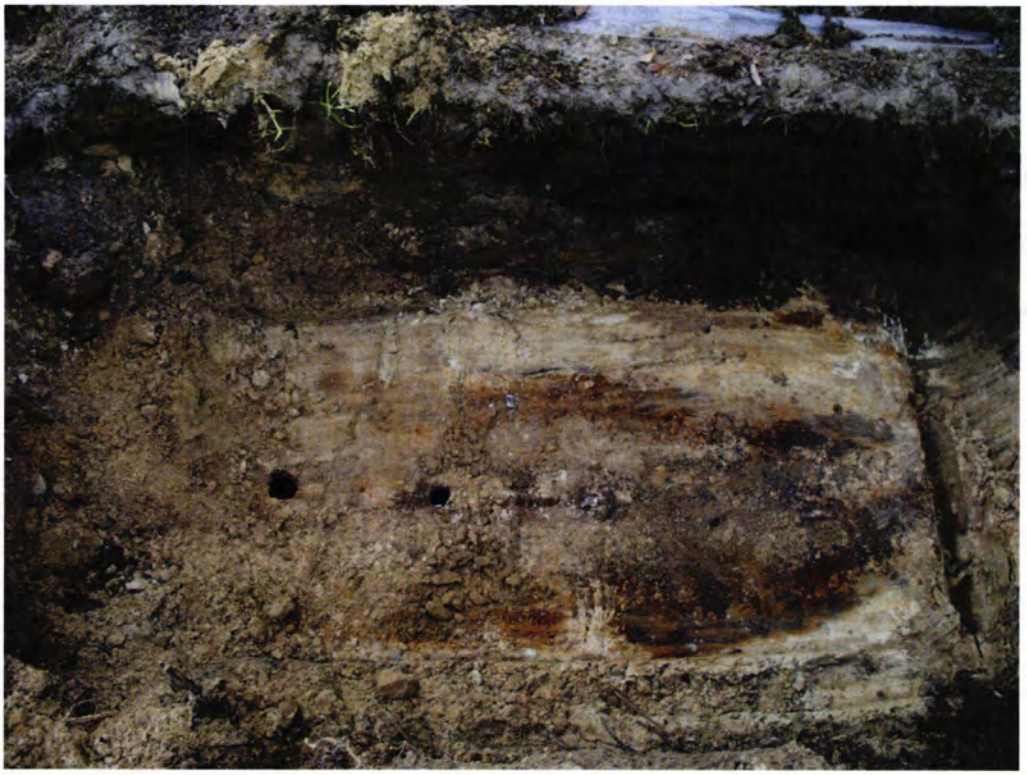
SBG-EEG
398 E. 5 NORTH ST., SUITE C
SUMMERVILLE, SC
29483-6954

FIGURE 3 UST SAMPLE LOCATIONS
1364 CARDINAL LN., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE APR 2011

Picture 1: Location of tanks at 1364 Cardinal.

Picture 2: UST 1364Cardinal-1 excavation in progress.



Picture 3: UST 1364Cardinal-2 during excavation.

Picture 4: UST 1364Cardinal-2.

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	1364Cardinal-1		1364Cardinal-2		
Benzene	0.0965 mg/kg		ND		
Toluene	0.515 mg/kg		ND		
Ethylbenzene	1.65 mg/kg		ND		
Xylenes	10.6 mg/kg		ND		
Naphthalene	13.4 mg/kg		0.0153 mg/kg		
Benzo (a) anthracene	2.86 mg/kg		ND		
Benzo (b) fluoranthene	1.62 mg/kg		ND		
Benzo (k) fluoranthene	1.95 mg/kg		ND		
Chrysene	3.64 mg/kg		ND		
Dibenz (a, h) anthracene	ND				
TPH (EPA 3550)					

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

SUMMARY OF ANALYSIS RESULTS (cont'd)

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

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

XV. ANALYTICAL RESULTS

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

April 21, 2011 3:43:07PM

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

Work Order: NUD1597
Project Name: Laurel Bay Housing Project
Project Nbr: [none]
P/O Nbr: 1035
Date Received: 04/09/11

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
1372 Dove	NUD1597-01	04/06/11 12:00
1364 Cardinal-1	NUD1597-02	04/07/11 15:15

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.

South Carolina Certification Number: 84009

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

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

All solids results are reported in wet weight unless specifically stated.
Estimated uncertainty is available upon request.
This report has been electronically signed.
Report Approved By:

Roxanne L. Connor

Roxanne Connor

Program Manager - Conventional Accounts

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

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD1597
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/09/11 08:20

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUD1597-01 (1372 Dove - Soil) Sampled: 04/06/11 12:00										
General Chemistry Parameters										
% Dry Solids	**91.8**		%	0.500	0.500	1	04/19/11 10:55	SW-846	AMS	11D4379
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00115	0.00209	1	04/14/11 13:02	SW846 8260B	MJH/H	11D3778
Ethylbenzene	ND		mg/kg dry	0.00103	0.00209	1	04/14/11 13:02	SW846 8260B	MJH/H	11D3778
Naphthalene	ND		mg/kg dry	0.00178	0.00524	1	04/14/11 13:02	SW846 8260B	MJH/H	11D3778
Toluene	ND		mg/kg dry	0.000932	0.00209	1	04/14/11 13:02	SW846 8260B	MJH/H	11D3778
Xylenes, total	ND		mg/kg dry	0.00199	0.00524	1	04/14/11 13:02	SW846 8260B	MJH/H	11D3778
Surr: 1,2-Dichloroethane-d4 (67-138%)	*126 %*					*1*	*04/14/11 13:02*	*SW846 8260B*	*MJH/H*	*11D3778*
Surr: Dibromofluoromethane (75-125%)	*112 %*					*1*	*04/14/11 13:02*	*SW846 8260B*	*MJH/H*	*11D3778*
Surr: Toluene-d8 (76-129%)	*101 %*					*1*	*04/14/11 13:02*	*SW846 8260B*	*MJH/H*	*11D3778*
Surr: 4-Bromofluorobenzene (67-147%)	*106 %*					*1*	*04/14/11 13:02*	*SW846 8260B*	*MJH/H*	*11D3778*
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0150	0.0719	1	04/15/11 17:57	SW846 8270D	JLS	11D2753
Acenaphthylene	ND		mg/kg dry	0.0215	0.0719	1	04/15/11 17:57	SW846 8270D	JLS	11D2753
Anthracene	ND		mg/kg dry	0.00965	0.0719	1	04/15/11 17:57	SW846 8270D	JLS	11D2753
Benzo (a) anthracene	ND		mg/kg dry	0.0118	0.0719	1	04/15/11 17:57	SW846 8270D	JLS	11D2753
Benzo (a) pyrene	ND		mg/kg dry	0.00858	0.0719	1	04/15/11 17:57	SW846 8270D	JLS	11D2753
Benzo (b) fluoranthene	ND		mg/kg dry	0.0408	0.0719	1	04/15/11 17:57	SW846 8270D	JLS	11D2753
Benzo (g,h,i) perylene	ND		mg/kg dry	0.00965	0.0719	1	04/15/11 17:57	SW846 8270D	JLS	11D2753
Benzo (k) fluoranthene	ND		mg/kg dry	0.0397	0.0719	1	04/15/11 17:57	SW846 8270D	JLS	11D2753
Chrysene	ND		mg/kg dry	0.0333	0.0719	1	04/15/11 17:57	SW846 8270D	JLS	11D2753
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0161	0.0719	1	04/15/11 17:57	SW846 8270D	JLS	11D2753
Fluoranthene	ND		mg/kg dry	0.0118	0.0719	1	04/15/11 17:57	SW846 8270D	JLS	11D2753
Fluorene	ND		mg/kg dry	0.0215	0.0719	1	04/15/11 17:57	SW846 8270D	JLS	11D2753
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0333	0.0719	1	04/15/11 17:57	SW846 8270D	JLS	11D2753
Naphthalene	ND		mg/kg dry	0.0150	0.0719	1	04/15/11 17:57	SW846 8270D	JLS	11D2753
Phenanthrene	ND		mg/kg dry	0.0107	0.0719	1	04/15/11 17:57	SW846 8270D	JLS	11D2753
Pyrene	ND		mg/kg dry	0.0247	0.0719	1	04/15/11 17:57	SW846 8270D	JLS	11D2753
1-Methylnaphthalene	**0.0433**	J	mg/kg dry	0.0129	0.0719	1	04/15/11 17:57	SW846 8270D	JLS	11D2753
2-Methylnaphthalene	**0.0672**	J	mg/kg dry	0.0225	0.0719	1	04/15/11 17:57	SW846 8270D	JLS	11D2753
Surr: Terphenyl-d14 (18-120%)	*73 %*					*1*	*04/15/11 17:57*	*SW846 8270D*	*JLS*	*11D2753*
Surr: 2-Fluorobiphenyl (14-120%)	*66 %*					*1*	*04/15/11 17:57*	*SW846 8270D*	*JLS*	*11D2753*
Surr: Nitrobenzene-d5 (17-120%)	*62 %*					*1*	*04/15/11 17:57*	*SW846 8270D*	*JLS*	*11D2753*

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

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD1597
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/09/11 08:20

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUD1597-02 (1364 Cardinal-1 - Soil) Sampled: 04/07/11 15:15										
General Chemistry Parameters										
% Dry Solids	**76.5**		%	0.500	0.500	1	04/19/11 10:55	SW-846	AMS	11D4379
Volatile Organic Compounds by EPA Method 8260B										
Benzene	**0.0965**		mg/kg dry	0.0515	0.0937	50	04/14/11 15:08	SW846 8260B	MJH/H	11D3778
Ethylbenzene	**1.65**		mg/kg dry	0.0459	0.0937	50	04/14/11 15:08	SW846 8260B	MJH/H	11D3778
Naphthalene	**13.4**		mg/kg dry	0.159	0.468	100	04/15/11 16:00	SW846 8260B	MJH/H	11D4457
Toluene	**0.515**		mg/kg dry	0.0417	0.0937	50	04/14/11 15:08	SW846 8260B	MJH/H	11D3778
Xylenes, total	**10.6**		mg/kg dry	0.0890	0.234	50	04/14/11 15:08	SW846 8260B	MJH/H	11D3778
Surr: 1,2-Dichloroethane-d4 (67-138%)	*114 %*					*50*	*04/14/11 15:08*	*SW846 8260B*	*MJH/H*	*11D3778*
Surr: 1,2-Dichloroethane-d4 (67-138%)	*112 %*					*100*	*04/15/11 16:00*	*SW846 8260B*	*MJH/H*	*11D4457*
Surr: Dibromofluoromethane (75-125%)	*102 %*					*50*	*04/14/11 15:08*	*SW846 8260B*	*MJH/H*	*11D3778*
Surr: Dibromofluoromethane (75-125%)	*102 %*					*100*	*04/15/11 16:00*	*SW846 8260B*	*MJH/H*	*11D4457*
Surr: Toluene-d8 (76-129%)	*106 %*					*50*	*04/14/11 15:08*	*SW846 8260B*	*MJH/H*	*11D3778*
Surr: Toluene-d8 (76-129%)	*102 %*					*100*	*04/15/11 16:00*	*SW846 8260B*	*MJH/H*	*11D4457*
Surr: 4-Bromofluorobenzene (67-147%)	*103 %*					*50*	*04/14/11 15:08*	*SW846 8260B*	*MJH/H*	*11D3778*
Surr: 4-Bromofluorobenzene (67-147%)	*104 %*					*100*	*04/15/11 16:00*	*SW846 8260B*	*MJH/H*	*11D4457*
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	**4.59**		mg/kg dry	0.365	1.75	10	04/16/11 22:04	SW846 8270D	JLS	11D2753
Acenaphthylene	ND		mg/kg dry	0.522	1.75	10	04/16/11 22:04	SW846 8270D	JLS	11D2753
Anthracene	**3.05**		mg/kg dry	0.235	1.75	10	04/16/11 22:04	SW846 8270D	JLS	11D2753
Benzo (a) anthracene	**2.86**		mg/kg dry	0.287	1.75	10	04/16/11 22:04	SW846 8270D	JLS	11D2753
Benzo (a) pyrene	**1.36**	J	mg/kg dry	0.209	1.75	10	04/16/11 22:04	SW846 8270D	JLS	11D2753
Benzo (b) fluoranthene	**1.62**	J	mg/kg dry	0.991	1.75	10	04/16/11 22:04	SW846 8270D	JLS	11D2753
Benzo (g,h,i) perylene	ND		mg/kg dry	0.235	1.75	10	04/16/11 22:04	SW846 8270D	JLS	11D2753
Benzo (k) fluoranthene	**1.95**		mg/kg dry	0.965	1.75	10	04/16/11 22:04	SW846 8270D	JLS	11D2753
Chrysene	**3.64**		mg/kg dry	0.809	1.75	10	04/16/11 22:04	SW846 8270D	JLS	11D2753
Dibenz (a,h) anthracene	ND		mg/kg dry	0.391	1.75	10	04/16/11 22:04	SW846 8270D	JLS	11D2753
Fluoranthene	**5.21**		mg/kg dry	0.287	1.75	10	04/16/11 22:04	SW846 8270D	JLS	11D2753
Fluorene	**10.3**		mg/kg dry	0.522	1.75	10	04/16/11 22:04	SW846 8270D	JLS	11D2753
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.809	1.75	10	04/16/11 22:04	SW846 8270D	JLS	11D2753
Naphthalene	**42.6**		mg/kg dry	0.365	1.75	10	04/16/11 22:04	SW846 8270D	JLS	11D2753
Phenanthrene	**25.3**		mg/kg dry	0.261	1.75	10	04/16/11 22:04	SW846 8270D	JLS	11D2753
Pyrene	**5.11**		mg/kg dry	0.600	1.75	10	04/16/11 22:04	SW846 8270D	JLS	11D2753
1-Methylnaphthalene	**70.1**		mg/kg dry	0.313	1.75	10	04/16/11 22:04	SW846 8270D	JLS	11D2753
2-Methylnaphthalene	**67.3**		mg/kg dry	1.10	3.50	20	04/17/11 08:35	SW846 8270D	JLS	11D2753
Surr: Terphenyl-d14 (18-120%)	*187 %*	*ZX*				*10*	*04/16/11 22:04*	*SW846 8270D*	*JLS*	*11D2753*
Surr: 2-Fluorobiphenyl (14-120%)	*235 %*	*ZX*				*10*	*04/16/11 22:04*	*SW846 8270D*	*JLS*	*11D2753*
Surr: Nitrobenzene-d5 (17-120%)	*234 %*	*ZX*				*10*	*04/16/11 22:04*	*SW846 8270D*	*JLS*	*11D2753*

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

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD1597
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/09/11 08:20

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extract Vol	Date	Analyst	Extraction Method
Polyaromatic Hydrocarbons by EPA 8270D							
SW846 8270D	11D2753	NUD1597-01	30.46	1.00	04/14/11 14:40	JJR	EPA 3550C
SW846 8270D	11D2753	NUD1597-02	30.07	2.00	04/14/11 14:40	JJR	EPA 3550C
SW846 8270D	11D2753	NUD1597-02RE1	30.07	2.00	04/14/11 14:40	JJR	EPA 3550C
SW846 8270D	11D2753	NUD1597-02RE2	30.07	2.00	04/14/11 14:40	JJR	EPA 3550C
Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	11D2977	NUD1597-01	5.07	5.00	04/06/11 12:00	TSP	EPA 5035
SW846 8260B	11D3778	NUD1597-01RE1	5.20	5.00	04/06/11 12:00	TSP	EPA 5035
SW846 8260B	11D2977	NUD1597-02	6.69	5.00	04/07/11 15:15	TSP	EPA 5035
SW846 8260B	11D3778	NUD1597-02RE1	6.98	5.00	04/07/11 15:15	TSP	EPA 5035
SW846 8260B	11D4457	NUD1597-02RE2	6.98	5.00	04/07/11 15:15	TSP	EPA 5035

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD1597
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/09/11 08:20

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
11D3778-BLK1						
Benzene	<0.00110		mg/kg wet	11D3778	11D3778-BLK1	04/14/11 11:59
Ethylbenzene	<0.000980		mg/kg wet	11D3778	11D3778-BLK1	04/14/11 11:59
Naphthalene	<0.00170		mg/kg wet	11D3778	11D3778-BLK1	04/14/11 11:59
Toluene	<0.000890		mg/kg wet	11D3778	11D3778-BLK1	04/14/11 11:59
Xylenes, total	<0.00190		mg/kg wet	11D3778	11D3778-BLK1	04/14/11 11:59
Surrogate: 1,2-Dichloroethane-d4	129%			11D3778	11D3778-BLK1	04/14/11 11:59
Surrogate: Dibromofluoromethane	111%			11D3778	11D3778-BLK1	04/14/11 11:59
Surrogate: Toluene-d8	98%			11D3778	11D3778-BLK1	04/14/11 11:59
Surrogate: 4-Bromofluorobenzene	97%			11D3778	11D3778-BLK1	04/14/11 11:59
11D3778-BLK2						
Benzene	<0.0550		mg/kg wet	11D3778	11D3778-BLK2	04/14/11 12:29
Ethylbenzene	<0.0490		mg/kg wet	11D3778	11D3778-BLK2	04/14/11 12:29
Naphthalene	<0.0850		mg/kg wet	11D3778	11D3778-BLK2	04/14/11 12:29
Toluene	<0.0445		mg/kg wet	11D3778	11D3778-BLK2	04/14/11 12:29
Xylenes, total	<0.0950		mg/kg wet	11D3778	11D3778-BLK2	04/14/11 12:29
Surrogate: 1,2-Dichloroethane-d4	132%			11D3778	11D3778-BLK2	04/14/11 12:29
Surrogate: Dibromofluoromethane	114%			11D3778	11D3778-BLK2	04/14/11 12:29
Surrogate: Toluene-d8	97%			11D3778	11D3778-BLK2	04/14/11 12:29
Surrogate: 4-Bromofluorobenzene	97%			11D3778	11D3778-BLK2	04/14/11 12:29
11D4457-BLK1						
Benzene	<0.00110		mg/kg wet	11D4457	11D4457-BLK1	04/15/11 13:45
Ethylbenzene	<0.000980		mg/kg wet	11D4457	11D4457-BLK1	04/15/11 13:45
Naphthalene	<0.00170		mg/kg wet	11D4457	11D4457-BLK1	04/15/11 13:45
Toluene	<0.000890		mg/kg wet	11D4457	11D4457-BLK1	04/15/11 13:45
Xylenes, total	<0.00190		mg/kg wet	11D4457	11D4457-BLK1	04/15/11 13:45
Surrogate: 1,2-Dichloroethane-d4	128%			11D4457	11D4457-BLK1	04/15/11 13:45
Surrogate: Dibromofluoromethane	111%			11D4457	11D4457-BLK1	04/15/11 13:45
Surrogate: Toluene-d8	98%			11D4457	11D4457-BLK1	04/15/11 13:45
Surrogate: 4-Bromofluorobenzene	97%			11D4457	11D4457-BLK1	04/15/11 13:45
11D4457-BLK2						
Benzene	<0.0550		mg/kg wet	11D4457	11D4457-BLK2	04/15/11 14:15
Ethylbenzene	<0.0490		mg/kg wet	11D4457	11D4457-BLK2	04/15/11 14:15
Naphthalene	<0.0850		mg/kg wet	11D4457	11D4457-BLK2	04/15/11 14:15
Toluene	<0.0445		mg/kg wet	11D4457	11D4457-BLK2	04/15/11 14:15
Xylenes, total	<0.0950		mg/kg wet	11D4457	11D4457-BLK2	04/15/11 14:15
Surrogate: 1,2-Dichloroethane-d4	128%			11D4457	11D4457-BLK2	04/15/11 14:15
Surrogate: Dibromofluoromethane	111%			11D4457	11D4457-BLK2	04/15/11 14:15
Surrogate: Toluene-d8	99%			11D4457	11D4457-BLK2	04/15/11 14:15
Surrogate: 4-Bromofluorobenzene	101%			11D4457	11D4457-BLK2	04/15/11 14:15

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD1597
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/09/11 08:20

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
Polyaromatic Hydrocarbons by EPA 8270D						
11D2753-BLK1						
Acenaphthene	<0.0140		mg/kg wet	11D2753	11D2753-BLK1	04/15/11 16:29
Acenaphthylene	<0.0200		mg/kg wet	11D2753	11D2753-BLK1	04/15/11 16:29
Anthracene	<0.00900		mg/kg wet	11D2753	11D2753-BLK1	04/15/11 16:29
Benzo (a) anthracene	<0.0110		mg/kg wet	11D2753	11D2753-BLK1	04/15/11 16:29
Benzo (a) pyrene	<0.00800		mg/kg wet	11D2753	11D2753-BLK1	04/15/11 16:29
Benzo (b) fluoranthene	<0.0380		mg/kg wet	11D2753	11D2753-BLK1	04/15/11 16:29
Benzo (g,h,i) perylene	<0.00900		mg/kg wet	11D2753	11D2753-BLK1	04/15/11 16:29
Benzo (k) fluoranthene	<0.0370		mg/kg wet	11D2753	11D2753-BLK1	04/15/11 16:29
Chrysene	<0.0310		mg/kg wet	11D2753	11D2753-BLK1	04/15/11 16:29
Dibenz (a,h) anthracene	<0.0150		mg/kg wet	11D2753	11D2753-BLK1	04/15/11 16:29
Fluoranthene	<0.0110		mg/kg wet	11D2753	11D2753-BLK1	04/15/11 16:29
Fluorene	<0.0200		mg/kg wet	11D2753	11D2753-BLK1	04/15/11 16:29
Indeno (1,2,3-cd) pyrene	<0.0310		mg/kg wet	11D2753	11D2753-BLK1	04/15/11 16:29
Naphthalene	<0.0140		mg/kg wet	11D2753	11D2753-BLK1	04/15/11 16:29
Phenanthrene	<0.0100		mg/kg wet	11D2753	11D2753-BLK1	04/15/11 16:29
Pyrene	<0.0230		mg/kg wet	11D2753	11D2753-BLK1	04/15/11 16:29
1-Methylnaphthalene	<0.0120		mg/kg wet	11D2753	11D2753-BLK1	04/15/11 16:29
2-Methylnaphthalene	<0.0210		mg/kg wet	11D2753	11D2753-BLK1	04/15/11 16:29
Surrogate: Terphenyl-d14	86%			11D2753	11D2753-BLK1	04/15/11 16:29
Surrogate: 2-Fluorobiphenyl	79%			11D2753	11D2753-BLK1	04/15/11 16:29
Surrogate: Nitrobenzene-d5	77%			11D2753	11D2753-BLK1	04/15/11 16:29

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD1597
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/09/11 08:20

PROJECT QUALITY CONTROL DATA

Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
General Chemistry Parameters										
11D4379-DUP1										
% Dry Solids	86.3	87.3		%	1	20	11D4379	NUD1303-17		04/19/11 10:55

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD1597
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/09/11 08:20

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
11D3778-BS1								
Benzene	50.0	47.0		ug/kg	94%	78 - 126	11D3778	04/14/11 10:30
Ethylbenzene	50.0	49.8		ug/kg	100%	79 - 130	11D3778	04/14/11 10:30
Naphthalene	50.0	47.8		ug/kg	96%	72 - 150	11D3778	04/14/11 10:30
Toluene	50.0	47.8		ug/kg	96%	76 - 126	11D3778	04/14/11 10:30
Xylenes, total	150	149		ug/kg	99%	80 - 130	11D3778	04/14/11 10:30
Surrogate: 1,2-Dichloroethane-d4	50.0	62.5			125%	67 - 138	11D3778	04/14/11 10:30
Surrogate: Dibromofluoromethane	50.0	56.9			114%	75 - 125	11D3778	04/14/11 10:30
Surrogate: Toluene-d8	50.0	49.1			98%	76 - 129	11D3778	04/14/11 10:30
Surrogate: 4-Bromofluorobenzene	50.0	50.1			100%	67 - 147	11D3778	04/14/11 10:30
11D4457-BS1								
Benzene	50.0	40.2		ug/kg	80%	78 - 126	11D4457	04/15/11 12:16
Ethylbenzene	50.0	42.5		ug/kg	85%	79 - 130	11D4457	04/15/11 12:16
Naphthalene	50.0	43.0		ug/kg	86%	72 - 150	11D4457	04/15/11 12:16
Toluene	50.0	40.6		ug/kg	81%	76 - 126	11D4457	04/15/11 12:16
Xylenes, total	150	126		ug/kg	84%	80 - 130	11D4457	04/15/11 12:16
Surrogate: 1,2-Dichloroethane-d4	50.0	61.0			122%	67 - 138	11D4457	04/15/11 12:16
Surrogate: Dibromofluoromethane	50.0	55.0			110%	75 - 125	11D4457	04/15/11 12:16
Surrogate: Toluene-d8	50.0	48.3			97%	76 - 129	11D4457	04/15/11 12:16
Surrogate: 4-Bromofluorobenzene	50.0	49.2			98%	67 - 147	11D4457	04/15/11 12:16
Polyaromatic Hydrocarbons by EPA 8270D								
11D2753-BS1								
Acenaphthene	1.67	1.32		mg/kg wet	79%	49 - 120	11D2753	04/15/11 16:51
Acenaphthylene	1.67	1.25		mg/kg wet	75%	52 - 120	11D2753	04/15/11 16:51
Anthracene	1.67	1.43		mg/kg wet	86%	58 - 120	11D2753	04/15/11 16:51
Benzo (a) anthracene	1.67	1.38		mg/kg wet	83%	57 - 120	11D2753	04/15/11 16:51
Benzo (a) pyrene	1.67	1.39		mg/kg wet	84%	55 - 120	11D2753	04/15/11 16:51
Benzo (b) fluoranthene	1.67	1.29		mg/kg wet	77%	51 - 123	11D2753	04/15/11 16:51
Benzo (g,h,i) perylene	1.67	1.39		mg/kg wet	83%	49 - 121	11D2753	04/15/11 16:51
Benzo (k) fluoranthene	1.67	1.54		mg/kg wet	93%	42 - 129	11D2753	04/15/11 16:51
Chrysene	1.67	1.35		mg/kg wet	81%	55 - 120	11D2753	04/15/11 16:51
Dibenz (a,h) anthracene	1.67	1.42		mg/kg wet	85%	50 - 123	11D2753	04/15/11 16:51
Fluoranthene	1.67	1.45		mg/kg wet	87%	58 - 120	11D2753	04/15/11 16:51
Fluorene	1.67	1.39		mg/kg wet	84%	54 - 120	11D2753	04/15/11 16:51
Indeno (1,2,3-cd) pyrene	1.67	1.41		mg/kg wet	84%	50 - 122	11D2753	04/15/11 16:51
Naphthalene	1.67	1.16		mg/kg wet	70%	28 - 120	11D2753	04/15/11 16:51
Phenanthrene	1.67	1.43		mg/kg wet	86%	56 - 120	11D2753	04/15/11 16:51
Pyrene	1.67	1.42		mg/kg wet	85%	56 - 120	11D2753	04/15/11 16:51
1-Methylnaphthalene	1.67	1.07		mg/kg wet	64%	36 - 120	11D2753	04/15/11 16:51
2-Methylnaphthalene	1.67	1.20		mg/kg wet	72%	36 - 120	11D2753	04/15/11 16:51

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD1597
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/09/11 08:20

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								
11D2753-BS1								
Surrogate: Terphenyl-d14	1.67	1.25			75%	18 - 120	11D2753	04/15/11 16:51
Surrogate: 2-Fluorobiphenyl	1.67	1.12			67%	14 - 120	11D2753	04/15/11 16:51
Surrogate: Nitrobenzene-d5	1.67	0.986			59%	17 - 120	11D2753	04/15/11 16:51

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD1597
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/09/11 08:20

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
11D3778-MS1										
Benzene	ND	0.0386		mg/kg wet	0.0430	90%	42 - 141	11D3778	NUD2026-07	04/14/11 21:18
Ethylbenzene	0.00252	0.0616		mg/kg wet	0.0430	138%	21 - 165	11D3778	NUD2026-07	04/14/11 21:18
Naphthalene	0.00772	0.0784	M1	mg/kg wet	0.0430	165%	10 - 160	11D3778	NUD2026-07	04/14/11 21:18
Toluene	ND	0.0382		mg/kg wet	0.0430	89%	45 - 145	11D3778	NUD2026-07	04/14/11 21:18
Xylenes, total	0.00323	0.132		mg/kg wet	0.129	100%	31 - 159	11D3778	NUD2026-07	04/14/11 21:18
Surrogate: 1,2-Dichloroethane-d4		58.5		ug/kg	50.0	117%	67 - 138	11D3778	NUD2026-07	04/14/11 21:18
Surrogate: Dibromofluoromethane		52.9		ug/kg	50.0	106%	75 - 125	11D3778	NUD2026-07	04/14/11 21:18
Surrogate: Toluene-d8		187	ZX	ug/kg	50.0	375%	76 - 129	11D3778	NUD2026-07	04/14/11 21:18
Surrogate: 4-Bromofluorobenzene		104	ZX	ug/kg	50.0	208%	67 - 147	11D3778	NUD2026-07	04/14/11 21:18
Polyaromatic Hydrocarbons by EPA 8270D										
11D2753-MS1										
Acenaphthene	ND	1.38		mg/kg dry	1.81	76%	42 - 120	11D2753	NUD1597-01	04/15/11 17:13
Acenaphthylene	ND	1.32		mg/kg dry	1.81	73%	32 - 120	11D2753	NUD1597-01	04/15/11 17:13
Anthracene	ND	1.50		mg/kg dry	1.81	83%	10 - 200	11D2753	NUD1597-01	04/15/11 17:13
Benzo (a) anthracene	ND	1.44		mg/kg dry	1.81	80%	41 - 120	11D2753	NUD1597-01	04/15/11 17:13
Benzo (a) pyrene	ND	1.47		mg/kg dry	1.81	81%	33 - 121	11D2753	NUD1597-01	04/15/11 17:13
Benzo (b) fluoranthene	ND	1.46		mg/kg dry	1.81	81%	26 - 137	11D2753	NUD1597-01	04/15/11 17:13
Benzo (g,h,i) perylene	ND	1.48		mg/kg dry	1.81	82%	21 - 124	11D2753	NUD1597-01	04/15/11 17:13
Benzo (k) fluoranthene	ND	1.49		mg/kg dry	1.81	83%	14 - 140	11D2753	NUD1597-01	04/15/11 17:13
Chrysene	ND	1.40		mg/kg dry	1.81	78%	28 - 123	11D2753	NUD1597-01	04/15/11 17:13
Dibenz (a,h) anthracene	ND	1.51		mg/kg dry	1.81	84%	25 - 127	11D2753	NUD1597-01	04/15/11 17:13
Fluoranthene	ND	1.52		mg/kg dry	1.81	84%	38 - 120	11D2753	NUD1597-01	04/15/11 17:13
Fluorene	ND	1.47		mg/kg dry	1.81	81%	41 - 120	11D2753	NUD1597-01	04/15/11 17:13
Indeno (1,2,3-cd) pyrene	ND	1.50		mg/kg dry	1.81	83%	25 - 123	11D2753	NUD1597-01	04/15/11 17:13
Naphthalene	ND	1.24		mg/kg dry	1.81	69%	25 - 120	11D2753	NUD1597-01	04/15/11 17:13
Phenanthrene	ND	1.52		mg/kg dry	1.81	84%	37 - 120	11D2753	NUD1597-01	04/15/11 17:13
Pyrene	ND	1.48		mg/kg dry	1.81	82%	29 - 125	11D2753	NUD1597-01	04/15/11 17:13
1-Methylnaphthalene	0.0433	1.13		mg/kg dry	1.81	60%	19 - 120	11D2753	NUD1597-01	04/15/11 17:13
2-Methylnaphthalene	0.0672	1.26		mg/kg dry	1.81	66%	11 - 120	11D2753	NUD1597-01	04/15/11 17:13
Surrogate: Terphenyl-d14		1.29		mg/kg dry	1.81	71%	18 - 120	11D2753	NUD1597-01	04/15/11 17:13
Surrogate: 2-Fluorobiphenyl		1.18		mg/kg dry	1.81	65%	14 - 120	11D2753	NUD1597-01	04/15/11 17:13
Surrogate: Nitrobenzene-d5		1.03		mg/kg dry	1.81	57%	17 - 120	11D2753	NUD1597-01	04/15/11 17:13

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD1597
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/09/11 08:20

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
Volatile Organic Compounds by EPA Method 8260B												
11D3778-MSD1												
Benzene	ND	0.0396		mg/kg wet	0.0446	89%	42 - 141	2	50	11D3778	NUD2026-07	04/14/11 21:48
Ethylbenzene	0.00252	0.0603		mg/kg wet	0.0446	130%	21 - 165	2	50	11D3778	NUD2026-07	04/14/11 21:48
Naphthalene	0.00772	0.0773		mg/kg wet	0.0446	156%	10 - 160	1	50	11D3778	NUD2026-07	04/14/11 21:48
Toluene	ND	0.0394		mg/kg wet	0.0446	88%	45 - 145	3	50	11D3778	NUD2026-07	04/14/11 21:48
Xylenes, total	0.00323	0.130		mg/kg wet	0.134	95%	31 - 159	2	50	11D3778	NUD2026-07	04/14/11 21:48
Surrogate: 1,2-Dichloroethane-d4		59.4		ug/kg	50.0	119%	67 - 138			11D3778	NUD2026-07	04/14/11 21:48
Surrogate: Dibromofluoromethane		54.0		ug/kg	50.0	108%	75 - 125			11D3778	NUD2026-07	04/14/11 21:48
Surrogate: Toluene-d8		60.5		ug/kg	50.0	121%	76 - 129			11D3778	NUD2026-07	04/14/11 21:48
Surrogate: 4-Bromofluorobenzene		160	ZX	ug/kg	50.0	319%	67 - 147			11D3778	NUD2026-07	04/14/11 21:48
Polyaromatic Hydrocarbons by EPA 8270D												
11D2753-MSD1												
Acenaphthene	ND	1.31		mg/kg dry	1.80	72%	42 - 120	5	40	11D2753	NUD1597-01	04/15/11 17:35
Acenaphthylene	ND	1.26		mg/kg dry	1.80	70%	32 - 120	5	30	11D2753	NUD1597-01	04/15/11 17:35
Anthracene	ND	1.41		mg/kg dry	1.80	78%	10 - 200	6	50	11D2753	NUD1597-01	04/15/11 17:35
Benzo (a) anthracene	ND	1.38		mg/kg dry	1.80	76%	41 - 120	4	30	11D2753	NUD1597-01	04/15/11 17:35
Benzo (a) pyrene	ND	1.40		mg/kg dry	1.80	78%	33 - 121	5	33	11D2753	NUD1597-01	04/15/11 17:35
Benzo (b) fluoranthene	ND	1.38		mg/kg dry	1.80	77%	26 - 137	5	42	11D2753	NUD1597-01	04/15/11 17:35
Benzo (g,h,i) perylene	ND	1.38		mg/kg dry	1.80	76%	21 - 124	7	32	11D2753	NUD1597-01	04/15/11 17:35
Benzo (k) fluoranthene	ND	1.42		mg/kg dry	1.80	79%	14 - 140	5	39	11D2753	NUD1597-01	04/15/11 17:35
Chrysene	ND	1.34		mg/kg dry	1.80	74%	28 - 123	5	34	11D2753	NUD1597-01	04/15/11 17:35
Dibenz (a,h) anthracene	ND	1.40		mg/kg dry	1.80	78%	25 - 127	7	31	11D2753	NUD1597-01	04/15/11 17:35
Fluoranthene	ND	1.45		mg/kg dry	1.80	81%	38 - 120	4	35	11D2753	NUD1597-01	04/15/11 17:35
Fluorene	ND	1.40		mg/kg dry	1.80	78%	41 - 120	4	37	11D2753	NUD1597-01	04/15/11 17:35
Indeno (1,2,3-cd) pyrene	ND	1.39		mg/kg dry	1.80	77%	25 - 123	7	32	11D2753	NUD1597-01	04/15/11 17:35
Naphthalene	ND	1.20		mg/kg dry	1.80	66%	25 - 120	4	42	11D2753	NUD1597-01	04/15/11 17:35
Phenanthrene	ND	1.44		mg/kg dry	1.80	80%	37 - 120	6	32	11D2753	NUD1597-01	04/15/11 17:35
Pyrene	ND	1.40		mg/kg dry	1.80	78%	29 - 125	6	40	11D2753	NUD1597-01	04/15/11 17:35
1-Methylnaphthalene	0.0433	1.09		mg/kg dry	1.80	58%	19 - 120	3	45	11D2753	NUD1597-01	04/15/11 17:35
2-Methylnaphthalene	0.0672	1.21		mg/kg dry	1.80	63%	11 - 120	4	50	11D2753	NUD1597-01	04/15/11 17:35
Surrogate: Terphenyl-d14		1.24		mg/kg dry	1.80	69%	18 - 120			11D2753	NUD1597-01	04/15/11 17:35
Surrogate: 2-Fluorobiphenyl		1.15		mg/kg dry	1.80	64%	14 - 120			11D2753	NUD1597-01	04/15/11 17:35
Surrogate: Nitrobenzene-d5		1.01		mg/kg dry	1.80	56%	17 - 120			11D2753	NUD1597-01	04/15/11 17:35

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THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD1597
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/09/11 08:20

CERTIFICATION SUMMARY

TestAmerica Nashville

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

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD1597
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/09/11 08:20

DATA QUALIFIERS AND DEFINITIONS

J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
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

NUD1597
04/25/11 23:59

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Nashville Division
2960 Foster Creighton
Nashville, TN 37204

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

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

Compliance Monitoring? Yes ____ No ____

Enforcement Action? Yes ____ No ____

Client Name/Account #: EEG - SBG # 2449

Address: 10179 Highway 78

City/State/Zip: Ladson, SC 29456

Site State: SC

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

PO#: 1035

Telephone Number: 843.412.2097 Fax No.: (843) 879-0401

TA Quote #:

Sampler Name: (Print) Brad Shaw

Project ID: Laurel Bay Housing Project

Sampler Signature:

Project #:

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red Label)	HCl (Green Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	None (Black Label)	Other (Specify) MeOH	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: BTEX + Napth - 8260B	PAH - 8270D									RUSH TAT (Pre-Schedule)
1372 Dour	4/6/11	1200	3	X					2				2	1					X		X	X		1							
1364 Cardinal-1	4/5/11	1515	5	X					2				2	1					X		Y	Y		2							

Special Instructions:

Method of Shipment: FEDEX

Relinquished by:	Date	Time	Received by:	Date	Time
	4/8/11	0900	Fedex		
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
				4/9/11	820

Laboratory Comments:
Temperature Upon Receipt: 1.1
VOCs Free of Headspace? Y

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May 02, 2011 12:22:56PM

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

Work Order: NUD2768
Project Name: Laurel Bay Housing Project
Project Nbr: [none]
P/O Nbr: 1027
Date Received: 04/16/11

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
1364 Cardinal-2	NUD2768-01	04/11/11 10:30
1430 Dove	NUD2768-02	04/12/11 11:30
1358 Cardinal	NUD2768-03	04/13/11 12:15
1444-Dove-1	NUD2768-04	04/14/11 12:00
1444-Dove-2	NUD2768-05	04/14/11 14:45

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.

South Carolina Certification Number: 84009

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

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

All solids results are reported in wet weight unless specifically stated.
Estimated uncertainty is available upon request.
This report has been electronically signed.
Report Approved By:

Roxanne L. Connor

Roxanne Connor

Program Manager - Conventional Accounts

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUD2768-01 (1364 Cardinal-2 - Soil) Sampled: 04/11/11 10:30										
General Chemistry Parameters										
% Dry Solids	**90.3**		%	0.500	0.500	1	04/25/11 15:07	SW-846	JJR	11D5574
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00129	0.00235	1	04/22/11 17:42	SW846 8260B	MJH	11D4866
Ethylbenzene	ND	RL1	mg/kg dry	0.0601	0.123	50	04/22/11 18:13	SW846 8260B	MJH	11D4866
Naphthalene	**0.0153**		mg/kg dry	0.00200	0.00588	1	04/22/11 17:42	SW846 8260B	MJH	11D4866
Toluene	ND	RL1	mg/kg dry	0.0546	0.123	50	04/22/11 18:13	SW846 8260B	MJH	11D4866
Xylenes, total	ND	RL1	mg/kg dry	0.117	0.307	50	04/22/11 18:13	SW846 8260B	MJH	11D4866
Surr: 1,2-Dichloroethane-d4 (67-138%)	*96 %*					*1*	*04/22/11 17:42*	*SW846 8260B*	*MJH*	*11D4866*
Surr: 1,2-Dichloroethane-d4 (67-138%)	*77 %*					*50*	*04/22/11 18:13*	*SW846 8260B*	*MJH*	*11D4866*
Surr: Dibromofluoromethane (75-125%)	*91 %*					*1*	*04/22/11 17:42*	*SW846 8260B*	*MJH*	*11D4866*
Surr: Dibromofluoromethane (75-125%)	*69 %*	*ZX*				*50*	*04/22/11 18:13*	*SW846 8260B*	*MJH*	*11D4866*
Surr: Toluene-d8 (76-129%)	*132 %*	*ZX*				*1*	*04/22/11 17:42*	*SW846 8260B*	*MJH*	*11D4866*
Surr: Toluene-d8 (76-129%)	*106 %*					*50*	*04/22/11 18:13*	*SW846 8260B*	*MJH*	*11D4866*
Surr: 4-Bromofluorobenzene (67-147%)	*62 %*	*ZX*				*1*	*04/22/11 17:42*	*SW846 8260B*	*MJH*	*11D4866*
Surr: 4-Bromofluorobenzene (67-147%)	*125 %*					*50*	*04/22/11 18:13*	*SW846 8260B*	*MJH*	*11D4866*
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.151	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Acenaphthylene	ND		mg/kg dry	0.215	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Anthracene	ND		mg/kg dry	0.0968	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Benzo (a) anthracene	ND		mg/kg dry	0.118	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Benzo (a) pyrene	ND		mg/kg dry	0.0860	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Benzo (b) fluoranthene	ND		mg/kg dry	0.409	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0968	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Benzo (k) fluoranthene	ND		mg/kg dry	0.398	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Chrysene	ND		mg/kg dry	0.333	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Dibenz (a,h) anthracene	ND		mg/kg dry	0.161	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Fluoranthene	ND		mg/kg dry	0.118	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Fluorene	ND		mg/kg dry	0.215	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.333	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Naphthalene	ND		mg/kg dry	0.151	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Phenanthrene	ND		mg/kg dry	0.108	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Pyrene	**1.57**		mg/kg dry	0.247	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
1-Methylnaphthalene	ND		mg/kg dry	0.129	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
2-Methylnaphthalene	ND		mg/kg dry	0.226	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Surr: Terphenyl-d14 (18-120%)	*61 %*					*5*	*04/19/11 22:29*	*SW846 8270D*	*BES*	*11D4497*
Surr: 2-Fluorobiphenyl (14-120%)	*88 %*					*5*	*04/19/11 22:29*	*SW846 8270D*	*BES*	*11D4497*
Surr: Nitrobenzene-d5 (17-120%)	*82 %*					*5*	*04/19/11 22:29*	*SW846 8270D*	*BES*	*11D4497*

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUD2768-02 (1430 Dove - Soil) Sampled: 04/12/11 11:30										
General Chemistry Parameters										
% Dry Solids	**85.6**		%	0.500	0.500	1	04/25/11 15:07	SW-846	JJR	11D5574
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00119	0.00216	1	04/21/11 18:26	SW846 8260B	MJH	11D4465
Ethylbenzene	**0.655**		mg/kg dry	0.0514	0.105	50	04/22/11 18:43	SW846 8260B	MJH	11D4866
Naphthalene	**5.01**		mg/kg dry	0.0891	0.262	50	04/22/11 18:43	SW846 8260B	MJH	11D4866
Toluene	**0.00104**	J	mg/kg dry	0.000961	0.00216	1	04/21/11 18:26	SW846 8260B	MJH	11D4465
Xylenes, total	**1.39**		mg/kg dry	0.0996	0.262	50	04/22/11 18:43	SW846 8260B	MJH	11D4866
Surr: 1,2-Dichloroethane-d4 (67-138%)	*78 %*					*1*	*04/21/11 18:26*	*SW846 8260B*	*MJH*	*11D4465*
Surr: 1,2-Dichloroethane-d4 (67-138%)	*77 %*					*50*	*04/22/11 18:43*	*SW846 8260B*	*MJH*	*11D4866*
Surr: Dibromofluoromethane (75-125%)	*77 %*					*1*	*04/21/11 18:26*	*SW846 8260B*	*MJH*	*11D4465*
Surr: Dibromofluoromethane (75-125%)	*74 %*	*ZX*				*50*	*04/22/11 18:43*	*SW846 8260B*	*MJH*	*11D4866*
Surr: Toluene-d8 (76-129%)	*155 %*	*ZX*				*1*	*04/21/11 18:26*	*SW846 8260B*	*MJH*	*11D4465*
Surr: Toluene-d8 (76-129%)	*108 %*					*50*	*04/22/11 18:43*	*SW846 8260B*	*MJH*	*11D4866*
Surr: 4-Bromofluorobenzene (67-147%)	*312 %*	*ZX*				*1*	*04/21/11 18:26*	*SW846 8260B*	*MJH*	*11D4465*
Surr: 4-Bromofluorobenzene (67-147%)	*128 %*					*50*	*04/22/11 18:43*	*SW846 8260B*	*MJH*	*11D4866*
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	**0.586**		mg/kg dry	0.0158	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Acenaphthylene	**0.235**		mg/kg dry	0.0226	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Anthracene	**0.443**		mg/kg dry	0.0102	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Benzo (a) anthracene	**0.692**		mg/kg dry	0.0125	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Benzo (a) pyrene	**0.242**		mg/kg dry	0.00906	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Benzo (b) fluoranthene	**0.354**		mg/kg dry	0.0430	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0102	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Benzo (k) fluoranthene	**0.274**		mg/kg dry	0.0419	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Chrysene	**0.583**		mg/kg dry	0.0351	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0170	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Fluoranthene	**1.92**		mg/kg dry	0.0125	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Fluorene	**1.31**		mg/kg dry	0.0226	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Indeno (1,2,3-cd) pyrene	**0.0653**	J	mg/kg dry	0.0351	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Naphthalene	**1.85**		mg/kg dry	0.0158	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Phenanthrene	**2.79**		mg/kg dry	0.0113	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Pyrene	**1.32**		mg/kg dry	0.0260	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
1-Methylnaphthalene	**7.79**		mg/kg dry	0.0679	0.379	5	04/20/11 19:18	SW846 8270D	BES	11D4497
2-Methylnaphthalene	**12.6**		mg/kg dry	0.119	0.379	5	04/20/11 19:18	SW846 8270D	BES	11D4497
Surr: Terphenyl-d14 (18-120%)	*69 %*					*1*	*04/19/11 22:50*	*SW846 8270D*	*BES*	*11D4497*
Surr: 2-Fluorobiphenyl (14-120%)	*73 %*					*1*	*04/19/11 22:50*	*SW846 8270D*	*BES*	*11D4497*
Surr: Nitrobenzene-d5 (17-120%)	*74 %*					*1*	*04/19/11 22:50*	*SW846 8270D*	*BES*	*11D4497*

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUD2768-03 (1358 Cardinal - Soil) Sampled: 04/13/11 12:15										
General Chemistry Parameters										
% Dry Solids	**85.1**		%	0.500	0.500	1	04/25/11 15:07	SW-846	JJR	11D5574
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00115	0.00209	1	04/22/11 16:09	SW846 8260B	MJH	11D4866
Ethylbenzene	ND		mg/kg dry	0.00102	0.00209	1	04/22/11 16:09	SW846 8260B	MJH	11D4866
Naphthalene	**0.00951**	CF7	mg/kg dry	0.00195	0.00572	1	04/21/11 18:56	SW846 8260B	MJH	11D4465
Toluene	**0.000930**	J	mg/kg dry	0.000930	0.00209	1	04/22/11 16:09	SW846 8260B	MJH	11D4866
Xylenes, total	ND		mg/kg dry	0.00199	0.00522	1	04/22/11 16:09	SW846 8260B	MJH	11D4866
Surr: 1,2-Dichloroethane-d4 (67-138%)	*96 %*					*1*	*04/21/11 18:56*	*SW846 8260B*	*MJH*	*11D4465*
Surr: 1,2-Dichloroethane-d4 (67-138%)	*87 %*					*1*	*04/22/11 16:09*	*SW846 8260B*	*MJH*	*11D4866*
Surr: Dibromofluoromethane (75-125%)	*95 %*					*1*	*04/21/11 18:56*	*SW846 8260B*	*MJH*	*11D4465*
Surr: Dibromofluoromethane (75-125%)	*87 %*					*1*	*04/22/11 16:09*	*SW846 8260B*	*MJH*	*11D4866*
Surr: Toluene-d8 (76-129%)	*105 %*					*1*	*04/21/11 18:56*	*SW846 8260B*	*MJH*	*11D4465*
Surr: Toluene-d8 (76-129%)	*108 %*					*1*	*04/22/11 16:09*	*SW846 8260B*	*MJH*	*11D4866*
Surr: 4-Bromofluorobenzene (67-147%)	*127 %*					*1*	*04/21/11 18:56*	*SW846 8260B*	*MJH*	*11D4465*
Surr: 4-Bromofluorobenzene (67-147%)	*158 %*	*ZX*				*1*	*04/22/11 16:09*	*SW846 8260B*	*MJH*	*11D4866*
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0162	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Acenaphthylene	ND		mg/kg dry	0.0232	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Anthracene	ND		mg/kg dry	0.0104	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Benzo (a) anthracene	ND		mg/kg dry	0.0127	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Benzo (a) pyrene	**0.106**		mg/kg dry	0.00926	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Benzo (b) fluoranthene	ND		mg/kg dry	0.0440	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Benzo (g,h,i) perylene	**0.127**		mg/kg dry	0.0104	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Benzo (k) fluoranthene	ND		mg/kg dry	0.0428	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Chrysene	ND		mg/kg dry	0.0359	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0174	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Fluoranthene	ND		mg/kg dry	0.0127	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Fluorene	ND		mg/kg dry	0.0232	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Indeno (1,2,3-cd) pyrene	**0.0930**		mg/kg dry	0.0359	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Naphthalene	ND		mg/kg dry	0.0162	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Phenanthrene	ND		mg/kg dry	0.0116	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Pyrene	ND		mg/kg dry	0.0266	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
1-Methylnaphthalene	ND		mg/kg dry	0.0139	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
2-Methylnaphthalene	ND		mg/kg dry	0.0243	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Surr: Terphenyl-d14 (18-120%)	*69 %*					*1*	*04/19/11 23:11*	*SW846 8270D*	*BES*	*11D4497*
Surr: 2-Fluorobiphenyl (14-120%)	*68 %*					*1*	*04/19/11 23:11*	*SW846 8270D*	*BES*	*11D4497*
Surr: Nitrobenzene-d5 (17-120%)	*82 %*					*1*	*04/19/11 23:11*	*SW846 8270D*	*BES*	*11D4497*

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUD2768-04 (1444-Dove-1 - Soil) Sampled: 04/14/11 12:00										
General Chemistry Parameters										
% Dry Solids	**79.8**		%	0.500	0.500	1	04/25/11 15:07	SW-846	JJR	11D5574
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00125	0.00227	1	04/21/11 19:27	SW846 8260B	MJH	11D4465
Ethylbenzene	ND		mg/kg dry	0.00111	0.00227	1	04/21/11 19:27	SW846 8260B	MJH	11D4465
Naphthalene	**0.00918**		mg/kg dry	0.00193	0.00568	1	04/21/11 19:27	SW846 8260B	MJH	11D4465
Toluene	ND		mg/kg dry	0.00101	0.00227	1	04/21/11 19:27	SW846 8260B	MJH	11D4465
Xylenes, total	ND		mg/kg dry	0.00216	0.00568	1	04/21/11 19:27	SW846 8260B	MJH	11D4465
Surr: 1,2-Dichloroethane-d4 (67-138%)	*84 %*					*1*	*04/21/11 19:27*	*SW846 8260B*	*MJH*	*11D4465*
Surr: Dibromofluoromethane (75-125%)	*84 %*					*1*	*04/21/11 19:27*	*SW846 8260B*	*MJH*	*11D4465*
Surr: Toluene-d8 (76-129%)	*109 %*					*1*	*04/21/11 19:27*	*SW846 8260B*	*MJH*	*11D4465*
Surr: 4-Bromofluorobenzene (67-147%)	*130 %*					*1*	*04/21/11 19:27*	*SW846 8260B*	*MJH*	*11D4465*
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	**0.0832**		mg/kg dry	0.0173	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Acenaphthylene	ND		mg/kg dry	0.0247	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Anthracene	ND		mg/kg dry	0.0111	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Benzo (a) anthracene	**0.336**		mg/kg dry	0.0136	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Benzo (a) pyrene	**0.309**		mg/kg dry	0.00989	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Benzo (b) fluoranthene	**0.660**		mg/kg dry	0.0470	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Benzo (g,h,i) perylene	**0.119**		mg/kg dry	0.0111	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Benzo (k) fluoranthene	**0.440**		mg/kg dry	0.0457	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Chrysene	**0.456**		mg/kg dry	0.0383	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Dibenz (a,h) anthracene	**0.0840**		mg/kg dry	0.0185	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Fluoranthene	**0.451**		mg/kg dry	0.0136	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Fluorene	**0.0783**	J	mg/kg dry	0.0247	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Indeno (1,2,3-cd) pyrene	**0.145**		mg/kg dry	0.0383	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Naphthalene	ND		mg/kg dry	0.0173	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Phenanthrene	**0.131**		mg/kg dry	0.0124	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Pyrene	**1.21**		mg/kg dry	0.0284	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
1-Methylnaphthalene	**0.117**		mg/kg dry	0.0148	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
2-Methylnaphthalene	**0.132**		mg/kg dry	0.0259	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Surr: Terphenyl-d14 (18-120%)	*65 %*					*1*	*04/19/11 23:33*	*SW846 8270D*	*BES*	*11D4497*
Surr: 2-Fluorobiphenyl (14-120%)	*60 %*					*1*	*04/19/11 23:33*	*SW846 8270D*	*BES*	*11D4497*
Surr: Nitrobenzene-d5 (17-120%)	*70 %*					*1*	*04/19/11 23:33*	*SW846 8270D*	*BES*	*11D4497*

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

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUD2768-05 (1444-Dove-2 - Soil) Sampled: 04/14/11 14:45										
General Chemistry Parameters										
% Dry Solids	**82.3**		%	0.500	0.500	1	04/25/11 15:07	SW-846	JJR	11D5574
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00130	0.00236	1	04/21/11 19:58	SW846 8260B	MJH	11D4465
Ethylbenzene	ND		mg/kg dry	0.00116	0.00236	1	04/21/11 19:58	SW846 8260B	MJH	11D4465
Naphthalene	**0.00566**	J	mg/kg dry	0.00201	0.00591	1	04/21/11 19:58	SW846 8260B	MJH	11D4465
Toluene	ND		mg/kg dry	0.00105	0.00236	1	04/21/11 19:58	SW846 8260B	MJH	11D4465
Xylenes, total	ND		mg/kg dry	0.00225	0.00591	1	04/21/11 19:58	SW846 8260B	MJH	11D4465
Surr: 1,2-Dichloroethane-d4 (67-138%)	*78 %*					*1*	*04/21/11 19:58*	*SW846 8260B*	*MJH*	*11D4465*
Surr: Dibromofluoromethane (75-125%)	*78 %*					*1*	*04/21/11 19:58*	*SW846 8260B*	*MJH*	*11D4465*
Surr: Toluene-d8 (76-129%)	*105 %*					*1*	*04/21/11 19:58*	*SW846 8260B*	*MJH*	*11D4465*
Surr: 4-Bromofluorobenzene (67-147%)	*124 %*					*1*	*04/21/11 19:58*	*SW846 8260B*	*MJH*	*11D4465*
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0165	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Acenaphthylene	ND		mg/kg dry	0.0235	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Anthracene	ND		mg/kg dry	0.0106	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Benzo (a) anthracene	ND		mg/kg dry	0.0129	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Benzo (a) pyrene	ND		mg/kg dry	0.00941	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Benzo (b) fluoranthene	ND		mg/kg dry	0.0447	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0106	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Benzo (k) fluoranthene	ND		mg/kg dry	0.0435	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Chrysene	ND		mg/kg dry	0.0365	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0177	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Fluoranthene	ND		mg/kg dry	0.0129	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Fluorene	ND		mg/kg dry	0.0235	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0365	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Naphthalene	ND		mg/kg dry	0.0165	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Phenanthrene	ND		mg/kg dry	0.0118	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Pyrene	ND		mg/kg dry	0.0271	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
1-Methylnaphthalene	ND		mg/kg dry	0.0141	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
2-Methylnaphthalene	ND		mg/kg dry	0.0247	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Surr: Terphenyl-d14 (18-120%)	*66 %*					*1*	*04/20/11 19:40*	*SW846 8270D*	*BES*	*11D4497*
Surr: 2-Fluorobiphenyl (14-120%)	*52 %*					*1*	*04/20/11 19:40*	*SW846 8270D*	*BES*	*11D4497*
Surr: Nitrobenzene-d5 (17-120%)	*58 %*					*1*	*04/20/11 19:40*	*SW846 8270D*	*BES*	*11D4497*

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extract Vol	Date	Analyst	Extraction Method
Polyaromatic Hydrocarbons by EPA 8270D							
SW846 8270D	11D4497	NUD2768-01	30.89	2.00	04/19/11 08:30	SAS	EPA 3550C
SW846 8270D	11D4497	NUD2768-02	30.96	1.00	04/19/11 08:30	SAS	EPA 3550C
SW846 8270D	11D4497	NUD2768-02RE1	30.96	1.00	04/19/11 08:30	SAS	EPA 3550C
SW846 8270D	11D4497	NUD2768-03	30.44	1.00	04/19/11 08:30	SAS	EPA 3550C
SW846 8270D	11D4497	NUD2768-04	30.44	1.00	04/19/11 08:30	SAS	EPA 3550C
SW846 8270D	11D4497	NUD2768-05	30.97	1.00	04/19/11 08:30	SAS	EPA 3550C
Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	11D4465	NUD2768-01	4.88	5.00	04/11/11 10:30	TSP	EPA 5035
SW846 8260B	11D4866	NUD2768-01RE1	4.71	5.00	04/11/11 10:30	TSP	EPA 5035
SW846 8260B	11D4866	NUD2768-01RE2	4.51	5.00	04/11/11 10:30	TSP	EPA 5035
SW846 8260B	11D4465	NUD2768-02	5.41	5.00	04/12/11 11:30	TSP	EPA 5035
SW846 8260B	11D4866	NUD2768-02RE1	5.57	5.00	04/12/11 11:30	TSP	EPA 5035
SW846 8260B	11D4465	NUD2768-03	5.13	5.00	04/13/11 12:15	TSP	EPA 5035
SW846 8260B	11D4866	NUD2768-03RE1	5.62	5.00	04/13/11 12:15	TSP	EPA 5035
SW846 8260B	11D4465	NUD2768-04	5.52	5.00	04/14/11 12:00	TSP	EPA 5035
SW846 8260B	11D4465	NUD2768-05	5.14	5.00	04/14/11 14:45	TSP	EPA 5035

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
11D4465-BLK1						
Benzene	<0.00110		mg/kg wet	11D4465	11D4465-BLK1	04/21/11 13:49
Ethylbenzene	<0.000980		mg/kg wet	11D4465	11D4465-BLK1	04/21/11 13:49
Naphthalene	<0.00170		mg/kg wet	11D4465	11D4465-BLK1	04/21/11 13:49
Toluene	<0.000890		mg/kg wet	11D4465	11D4465-BLK1	04/21/11 13:49
Xylenes, total	<0.00190		mg/kg wet	11D4465	11D4465-BLK1	04/21/11 13:49
Surrogate: 1,2-Dichloroethane-d4	94%			11D4465	11D4465-BLK1	04/21/11 13:49
Surrogate: Dibromofluoromethane	91%			11D4465	11D4465-BLK1	04/21/11 13:49
Surrogate: Toluene-d8	102%			11D4465	11D4465-BLK1	04/21/11 13:49
Surrogate: 4-Bromofluorobenzene	115%			11D4465	11D4465-BLK1	04/21/11 13:49
11D4465-BLK2						
Benzene	<0.0550		mg/kg wet	11D4465	11D4465-BLK2	04/21/11 14:20
Ethylbenzene	<0.0490		mg/kg wet	11D4465	11D4465-BLK2	04/21/11 14:20
Naphthalene	<0.0850		mg/kg wet	11D4465	11D4465-BLK2	04/21/11 14:20
Toluene	<0.0445		mg/kg wet	11D4465	11D4465-BLK2	04/21/11 14:20
Xylenes, total	<0.0950		mg/kg wet	11D4465	11D4465-BLK2	04/21/11 14:20
Surrogate: 1,2-Dichloroethane-d4	83%			11D4465	11D4465-BLK2	04/21/11 14:20
Surrogate: Dibromofluoromethane	78%			11D4465	11D4465-BLK2	04/21/11 14:20
Surrogate: Toluene-d8	103%			11D4465	11D4465-BLK2	04/21/11 14:20
Surrogate: 4-Bromofluorobenzene	109%			11D4465	11D4465-BLK2	04/21/11 14:20
11D4866-BLK1						
Benzene	<0.00110		mg/kg wet	11D4866	11D4866-BLK1	04/22/11 14:06
Ethylbenzene	<0.000980		mg/kg wet	11D4866	11D4866-BLK1	04/22/11 14:06
Naphthalene	<0.00170		mg/kg wet	11D4866	11D4866-BLK1	04/22/11 14:06
Toluene	<0.000890		mg/kg wet	11D4866	11D4866-BLK1	04/22/11 14:06
Xylenes, total	<0.00190		mg/kg wet	11D4866	11D4866-BLK1	04/22/11 14:06
Surrogate: 1,2-Dichloroethane-d4	102%			11D4866	11D4866-BLK1	04/22/11 14:06
Surrogate: Dibromofluoromethane	99%			11D4866	11D4866-BLK1	04/22/11 14:06
Surrogate: Toluene-d8	103%			11D4866	11D4866-BLK1	04/22/11 14:06
Surrogate: 4-Bromofluorobenzene	149%	Z2		11D4866	11D4866-BLK1	04/22/11 14:06
11D4866-BLK2						
Benzene	<0.0550		mg/kg wet	11D4866	11D4866-BLK2	04/22/11 14:36
Ethylbenzene	<0.0490		mg/kg wet	11D4866	11D4866-BLK2	04/22/11 14:36
Naphthalene	<0.0850		mg/kg wet	11D4866	11D4866-BLK2	04/22/11 14:36
Toluene	<0.0445		mg/kg wet	11D4866	11D4866-BLK2	04/22/11 14:36
Xylenes, total	<0.0950		mg/kg wet	11D4866	11D4866-BLK2	04/22/11 14:36
Surrogate: 1,2-Dichloroethane-d4	93%			11D4866	11D4866-BLK2	04/22/11 14:36
Surrogate: Dibromofluoromethane	86%			11D4866	11D4866-BLK2	04/22/11 14:36
Surrogate: Toluene-d8	104%			11D4866	11D4866-BLK2	04/22/11 14:36
Surrogate: 4-Bromofluorobenzene	150%	Z2		11D4866	11D4866-BLK2	04/22/11 14:36

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
Polyaromatic Hydrocarbons by EPA 8270D						
11D4497-BLK1						
Acenaphthene	<0.0140		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Acenaphthylene	<0.0200		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Anthracene	<0.00900		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Benzo (a) anthracene	<0.0110		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Benzo (a) pyrene	<0.00800		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Benzo (b) fluoranthene	<0.0380		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Benzo (g,h,i) perylene	<0.00900		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Benzo (k) fluoranthene	<0.0370		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Chrysene	<0.0310		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Dibenz (a,h) anthracene	<0.0150		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Fluoranthene	<0.0110		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Fluorene	<0.0200		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Indeno (1,2,3-cd) pyrene	<0.0310		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Naphthalene	<0.0140		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Phenanthrene	<0.0100		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Pyrene	<0.0230		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
1-Methylnaphthalene	<0.0120		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
2-Methylnaphthalene	<0.0210		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Surrogate: Terphenyl-d14	78%			11D4497	11D4497-BLK1	04/19/11 20:21
Surrogate: 2-Fluorobiphenyl	66%			11D4497	11D4497-BLK1	04/19/11 20:21
Surrogate: Nitrobenzene-d5	78%			11D4497	11D4497-BLK1	04/19/11 20:21

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

PROJECT QUALITY CONTROL DATA
Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
General Chemistry Parameters										
11D5574-DUP1										
% Dry Solids	90.3	91.2		%	1	20	11D5574	NUD2768-01		04/25/11 15:07

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
11D4465-BS1								
Benzene	50.0	55.7		ug/kg	111%	78 - 126	11D4465	04/21/11 12:17
Ethylbenzene	50.0	60.6		ug/kg	121%	79 - 130	11D4465	04/21/11 12:17
Naphthalene	50.0	58.0		ug/kg	116%	72 - 150	11D4465	04/21/11 12:17
Toluene	50.0	60.2		ug/kg	120%	76 - 126	11D4465	04/21/11 12:17
Xylenes, total	150	188		ug/kg	126%	80 - 130	11D4465	04/21/11 12:17
Surrogate: 1,2-Dichloroethane-d4	50.0	50.6			101%	67 - 138	11D4465	04/21/11 12:17
Surrogate: Dibromofluoromethane	50.0	48.9			98%	75 - 125	11D4465	04/21/11 12:17
Surrogate: Toluene-d8	50.0	51.0			102%	76 - 129	11D4465	04/21/11 12:17
Surrogate: 4-Bromofluorobenzene	50.0	51.1			102%	67 - 147	11D4465	04/21/11 12:17
11D4866-BS1								
Benzene	50.0	46.7		ug/kg	93%	78 - 126	11D4866	04/22/11 12:33
Ethylbenzene	50.0	60.2		ug/kg	120%	79 - 130	11D4866	04/22/11 12:33
Naphthalene	50.0	55.5		ug/kg	111%	72 - 150	11D4866	04/22/11 12:33
Toluene	50.0	58.8		ug/kg	118%	76 - 126	11D4866	04/22/11 12:33
Xylenes, total	150	186		ug/kg	124%	80 - 130	11D4866	04/22/11 12:33
Surrogate: 1,2-Dichloroethane-d4	50.0	42.0			84%	67 - 138	11D4866	04/22/11 12:33
Surrogate: Dibromofluoromethane	50.0	41.6			83%	75 - 125	11D4866	04/22/11 12:33
Surrogate: Toluene-d8	50.0	52.8			106%	76 - 129	11D4866	04/22/11 12:33
Surrogate: 4-Bromofluorobenzene	50.0	58.1			116%	67 - 147	11D4866	04/22/11 12:33
Polyaromatic Hydrocarbons by EPA 8270D								
11D4497-BS1								
Acenaphthene	1.67	1.30		mg/kg wet	78%	49 - 120	11D4497	04/19/11 20:42
Acenaphthylene	1.67	1.33		mg/kg wet	80%	52 - 120	11D4497	04/19/11 20:42
Anthracene	1.67	1.55		mg/kg wet	93%	58 - 120	11D4497	04/19/11 20:42
Benzo (a) anthracene	1.67	1.54		mg/kg wet	92%	57 - 120	11D4497	04/19/11 20:42
Benzo (a) pyrene	1.67	1.57		mg/kg wet	94%	55 - 120	11D4497	04/19/11 20:42
Benzo (b) fluoranthene	1.67	1.58		mg/kg wet	95%	51 - 123	11D4497	04/19/11 20:42
Benzo (g,h,i) perylene	1.67	1.30		mg/kg wet	78%	49 - 121	11D4497	04/19/11 20:42
Benzo (k) fluoranthene	1.67	1.58		mg/kg wet	95%	42 - 129	11D4497	04/19/11 20:42
Chrysene	1.67	1.46		mg/kg wet	88%	55 - 120	11D4497	04/19/11 20:42
Dibenz (a,h) anthracene	1.67	1.45		mg/kg wet	87%	50 - 123	11D4497	04/19/11 20:42
Fluoranthene	1.67	1.52		mg/kg wet	91%	58 - 120	11D4497	04/19/11 20:42
Fluorene	1.67	1.42		mg/kg wet	85%	54 - 120	11D4497	04/19/11 20:42
Indeno (1,2,3-cd) pyrene	1.67	1.40		mg/kg wet	84%	50 - 122	11D4497	04/19/11 20:42
Naphthalene	1.67	1.18		mg/kg wet	71%	28 - 120	11D4497	04/19/11 20:42
Phenanthrene	1.67	1.47		mg/kg wet	88%	56 - 120	11D4497	04/19/11 20:42
Pyrene	1.67	1.61		mg/kg wet	97%	56 - 120	11D4497	04/19/11 20:42
1-Methylnaphthalene	1.67	1.07		mg/kg wet	64%	36 - 120	11D4497	04/19/11 20:42
2-Methylnaphthalene	1.67	1.22		mg/kg wet	73%	36 - 120	11D4497	04/19/11 20:42

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

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								
11D4497-BS1								
Surrogate: Terphenyl-d14	1.67	1.42			85%	18 - 120	11D4497	04/19/11 20:42
Surrogate: 2-Fluorobiphenyl	1.67	1.22			73%	14 - 120	11D4497	04/19/11 20:42
Surrogate: Nitrobenzene-d5	1.67	1.30			78%	17 - 120	11D4497	04/19/11 20:42

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

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
Volatile Organic Compounds by EPA Method 8260B												
11D4465-BSD1												
Benzene		49.7		ug/kg	50.0	99%	78 - 126	11	50	11D4465		04/21/11 12:48
Ethylbenzene		59.4		ug/kg	50.0	119%	79 - 130	2	50	11D4465		04/21/11 12:48
Naphthalene		55.2		ug/kg	50.0	110%	72 - 150	5	50	11D4465		04/21/11 12:48
Toluene		59.6		ug/kg	50.0	119%	76 - 126	1	50	11D4465		04/21/11 12:48
Xylenes, total		187		ug/kg	150	125%	80 - 130	0.9	50	11D4465		04/21/11 12:48
Surrogate: 1,2-Dichloroethane-d4		45.7		ug/kg	50.0	91%	67 - 138			11D4465		04/21/11 12:48
Surrogate: Dibromofluoromethane		44.4		ug/kg	50.0	89%	75 - 125			11D4465		04/21/11 12:48
Surrogate: Toluene-d8		51.4		ug/kg	50.0	103%	76 - 129			11D4465		04/21/11 12:48
Surrogate: 4-Bromofluorobenzene		52.0		ug/kg	50.0	104%	67 - 147			11D4465		04/21/11 12:48

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
11D4465-MS1										
Benzene	ND	2.36		mg/kg wet	2.47	96%	42 - 141	11D4465	NUD2041-01R E2	04/21/11 23:33
Ethylbenzene	ND	2.90		mg/kg wet	2.47	117%	21 - 165	11D4465	NUD2041-01R E2	04/21/11 23:33
Naphthalene	0.235	2.44		mg/kg wet	2.47	89%	10 - 160	11D4465	NUD2041-01R E2	04/21/11 23:33
Toluene	ND	2.83		mg/kg wet	2.47	115%	45 - 145	11D4465	NUD2041-01R E2	04/21/11 23:33
Xylenes, total	ND	8.89		mg/kg wet	7.40	120%	31 - 159	11D4465	NUD2041-01R E2	04/21/11 23:33
Surrogate: 1,2-Dichloroethane-d4		43.6		ug/kg	50.0	87%	67 - 138	11D4465	NUD2041-01R E2	04/21/11 23:33
Surrogate: Dibromofluoromethane		43.9		ug/kg	50.0	88%	75 - 125	11D4465	NUD2041-01R E2	04/21/11 23:33
Surrogate: Toluene-d8		53.6		ug/kg	50.0	107%	76 - 129	11D4465	NUD2041-01R E2	04/21/11 23:33
Surrogate: 4-Bromofluorobenzene		57.6		ug/kg	50.0	115%	67 - 147	11D4465	NUD2041-01R E2	04/21/11 23:33
11D4866-MS1										
Benzene	ND	2.03		mg/kg dry	2.62	77%	42 - 141	11D4866	NUD2768-02R E1	04/22/11 22:50
Ethylbenzene	0.655	3.44		mg/kg dry	2.62	106%	21 - 165	11D4866	NUD2768-02R E1	04/22/11 22:50
Naphthalene	5.01	7.45		mg/kg dry	2.62	93%	10 - 160	11D4866	NUD2768-02R E1	04/22/11 22:50
Toluene	ND	2.63		mg/kg dry	2.62	100%	45 - 145	11D4866	NUD2768-02R E1	04/22/11 22:50
Xylenes, total	1.39	10.0		mg/kg dry	7.87	110%	31 - 159	11D4866	NUD2768-02R E1	04/22/11 22:50
Surrogate: 1,2-Dichloroethane-d4		39.6		ug/kg	50.0	79%	67 - 138	11D4866	NUD2768-02R E1	04/22/11 22:50
Surrogate: Dibromofluoromethane		39.3		ug/kg	50.0	79%	75 - 125	11D4866	NUD2768-02R E1	04/22/11 22:50
Surrogate: Toluene-d8		53.9		ug/kg	50.0	108%	76 - 129	11D4866	NUD2768-02R E1	04/22/11 22:50
Surrogate: 4-Bromofluorobenzene		59.9		ug/kg	50.0	120%	67 - 147	11D4866	NUD2768-02R E1	04/22/11 22:50
Polyaromatic Hydrocarbons by EPA 8270D										
11D4497-MS1										
Acenaphthene	ND	1.65		mg/kg dry	2.55	65%	42 - 120	11D4497	NUD1535-01	04/19/11 21:04
Acenaphthylene	ND	1.71		mg/kg dry	2.55	67%	32 - 120	11D4497	NUD1535-01	04/19/11 21:04
Anthracene	ND	1.99		mg/kg dry	2.55	78%	10 - 200	11D4497	NUD1535-01	04/19/11 21:04
Benzo (a) anthracene	ND	1.97		mg/kg dry	2.55	77%	41 - 120	11D4497	NUD1535-01	04/19/11 21:04
Benzo (a) pyrene	ND	1.97		mg/kg dry	2.55	77%	33 - 121	11D4497	NUD1535-01	04/19/11 21:04
Benzo (b) fluoranthene	ND	2.19		mg/kg dry	2.55	86%	26 - 137	11D4497	NUD1535-01	04/19/11 21:04

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

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										
11D4497-MS1										
Benzo (g,h,i) perylene	ND	1.61		mg/kg dry	2.55	63%	21 - 124	11D4497	NUD1535-01	04/19/11 21:04
Benzo (k) fluoranthene	ND	1.84		mg/kg dry	2.55	72%	14 - 140	11D4497	NUD1535-01	04/19/11 21:04
Chrysene	ND	1.85		mg/kg dry	2.55	73%	28 - 123	11D4497	NUD1535-01	04/19/11 21:04
Dibenz (a,h) anthracene	ND	1.83		mg/kg dry	2.55	72%	25 - 127	11D4497	NUD1535-01	04/19/11 21:04
Fluoranthene	ND	2.01		mg/kg dry	2.55	79%	38 - 120	11D4497	NUD1535-01	04/19/11 21:04
Fluorene	ND	1.84		mg/kg dry	2.55	72%	41 - 120	11D4497	NUD1535-01	04/19/11 21:04
Indeno (1,2,3-cd) pyrene	ND	1.78		mg/kg dry	2.55	70%	25 - 123	11D4497	NUD1535-01	04/19/11 21:04
Naphthalene	ND	1.54		mg/kg dry	2.55	60%	25 - 120	11D4497	NUD1535-01	04/19/11 21:04
Phenanthrene	ND	1.89		mg/kg dry	2.55	74%	37 - 120	11D4497	NUD1535-01	04/19/11 21:04
Pyrene	ND	2.05		mg/kg dry	2.55	81%	29 - 125	11D4497	NUD1535-01	04/19/11 21:04
1-Methylnaphthalene	ND	1.39		mg/kg dry	2.55	55%	19 - 120	11D4497	NUD1535-01	04/19/11 21:04
2-Methylnaphthalene	ND	1.60		mg/kg dry	2.55	63%	11 - 120	11D4497	NUD1535-01	04/19/11 21:04
Surrogate: Terphenyl-d14		1.67		mg/kg dry	2.55	66%	18 - 120	11D4497	NUD1535-01	04/19/11 21:04
Surrogate: 2-Fluorobiphenyl		1.50		mg/kg dry	2.55	59%	14 - 120	11D4497	NUD1535-01	04/19/11 21:04
Surrogate: Nitrobenzene-d5		1.62		mg/kg dry	2.55	63%	17 - 120	11D4497	NUD1535-01	04/19/11 21:04

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

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
Volatile Organic Compounds by EPA Method 8260B												
11D4465-MSD1												
Benzene	ND	2.13		mg/kg wet	2.47	86%	42 - 141	10	50	11D4465	NUD2041-01R E2	04/22/11 00:04
Ethylbenzene	ND	3.04		mg/kg wet	2.47	123%	21 - 165	5	50	11D4465	NUD2041-01R E2	04/22/11 00:04
Naphthalene	0.235	2.50		mg/kg wet	2.47	92%	10 - 160	2	50	11D4465	NUD2041-01R E2	04/22/11 00:04
Toluene	ND	2.93		mg/kg wet	2.47	119%	45 - 145	4	50	11D4465	NUD2041-01R E2	04/22/11 00:04
Xylenes, total	ND	9.37		mg/kg wet	7.40	127%	31 - 159	5	50	11D4465	NUD2041-01R E2	04/22/11 00:04
Surrogate: 1,2-Dichloroethane-d4		37.6		ug/kg	50.0	75%	67 - 138			11D4465	NUD2041-01R E2	04/22/11 00:04
Surrogate: Dibromofluoromethane		38.4		ug/kg	50.0	77%	75 - 125			11D4465	NUD2041-01R E2	04/22/11 00:04
Surrogate: Toluene-d8		53.6		ug/kg	50.0	107%	76 - 129			11D4465	NUD2041-01R E2	04/22/11 00:04
Surrogate: 4-Bromofluorobenzene		58.9		ug/kg	50.0	118%	67 - 147			11D4465	NUD2041-01R E2	04/22/11 00:04
11D4866-MSD1												
Benzene	ND	2.40		mg/kg dry	2.62	92%	42 - 141	17	50	11D4866	NUD2768-02R E1	04/22/11 23:21
Ethylbenzene	0.655	3.73		mg/kg dry	2.62	117%	21 - 165	8	50	11D4866	NUD2768-02R E1	04/22/11 23:21
Naphthalene	5.01	7.50		mg/kg dry	2.62	95%	10 - 160	0.7	50	11D4866	NUD2768-02R E1	04/22/11 23:21
Toluene	ND	3.05		mg/kg dry	2.62	116%	45 - 145	15	50	11D4866	NUD2768-02R E1	04/22/11 23:21
Xylenes, total	1.39	11.0		mg/kg dry	7.87	122%	31 - 159	9	50	11D4866	NUD2768-02R E1	04/22/11 23:21
Surrogate: 1,2-Dichloroethane-d4		40.6		ug/kg	50.0	81%	67 - 138			11D4866	NUD2768-02R E1	04/22/11 23:21
Surrogate: Dibromofluoromethane		40.4		ug/kg	50.0	81%	75 - 125			11D4866	NUD2768-02R E1	04/22/11 23:21
Surrogate: Toluene-d8		53.7		ug/kg	50.0	107%	76 - 129			11D4866	NUD2768-02R E1	04/22/11 23:21
Surrogate: 4-Bromofluorobenzene		57.7		ug/kg	50.0	115%	67 - 147			11D4866	NUD2768-02R E1	04/22/11 23:21
Polyaromatic Hydrocarbons by EPA 8270D												
11D4497-MSD1												
Acenaphthene	ND	1.80		mg/kg dry	2.56	70%	42 - 120	8	40	11D4497	NUD1535-01	04/19/11 21:25
Acenaphthylene	ND	1.87		mg/kg dry	2.56	73%	32 - 120	9	30	11D4497	NUD1535-01	04/19/11 21:25
Anthracene	ND	2.12		mg/kg dry	2.56	83%	10 - 200	6	50	11D4497	NUD1535-01	04/19/11 21:25
Benzo (a) anthracene	ND	2.16		mg/kg dry	2.56	84%	41 - 120	9	30	11D4497	NUD1535-01	04/19/11 21:25
Benzo (a) pyrene	ND	2.13		mg/kg dry	2.56	83%	33 - 121	8	33	11D4497	NUD1535-01	04/19/11 21:25
Benzo (b) fluoranthene	ND	2.09		mg/kg dry	2.56	82%	26 - 137	4	42	11D4497	NUD1535-01	04/19/11 21:25
Benzo (g,h,i) perylene	ND	1.69		mg/kg dry	2.56	66%	21 - 124	5	32	11D4497	NUD1535-01	04/19/11 21:25
Benzo (k) fluoranthene	ND	2.19		mg/kg dry	2.56	85%	14 - 140	17	39	11D4497	NUD1535-01	04/19/11 21:25

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

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												
11D4497-MSD1												
Chrysene	ND	1.95		mg/kg dry	2.56	76%	28 - 123	5	34	11D4497	NUD1535-01	04/19/11 21:25
Dibenz (a,h) anthracene	ND	1.93		mg/kg dry	2.56	75%	25 - 127	6	31	11D4497	NUD1535-01	04/19/11 21:25
Fluoranthene	ND	2.18		mg/kg dry	2.56	85%	38 - 120	8	35	11D4497	NUD1535-01	04/19/11 21:25
Fluorene	ND	2.00		mg/kg dry	2.56	78%	41 - 120	8	37	11D4497	NUD1535-01	04/19/11 21:25
Indeno (1,2,3-cd) pyrene	ND	1.83		mg/kg dry	2.56	71%	25 - 123	3	32	11D4497	NUD1535-01	04/19/11 21:25
Naphthalene	ND	1.70		mg/kg dry	2.56	66%	25 - 120	10	42	11D4497	NUD1535-01	04/19/11 21:25
Phenanthrene	ND	2.04		mg/kg dry	2.56	80%	37 - 120	8	32	11D4497	NUD1535-01	04/19/11 21:25
Pyrene	ND	2.13		mg/kg dry	2.56	83%	29 - 125	3	40	11D4497	NUD1535-01	04/19/11 21:25
1-Methylnaphthalene	ND	1.55		mg/kg dry	2.56	61%	19 - 120	11	45	11D4497	NUD1535-01	04/19/11 21:25
2-Methylnaphthalene	ND	1.78		mg/kg dry	2.56	70%	11 - 120	11	50	11D4497	NUD1535-01	04/19/11 21:25
Surrogate: Terphenyl-d14		1.70		mg/kg dry	2.56	66%	18 - 120			11D4497	NUD1535-01	04/19/11 21:25
Surrogate: 2-Fluorobiphenyl		1.61		mg/kg dry	2.56	63%	14 - 120			11D4497	NUD1535-01	04/19/11 21:25
Surrogate: Nitrobenzene-d5		1.75		mg/kg dry	2.56	68%	17 - 120			11D4497	NUD1535-01	04/19/11 21:25

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

CERTIFICATION SUMMARY

TestAmerica Nashville

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

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

DATA QUALIFIERS AND DEFINITIONS

CF7	Result may be elevated due to carry over from previously analyzed sample.
J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
RL1	Reporting limit raised due to sample matrix effects.
Z2	Surrogate recovery was above the acceptance limits. 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

NUD2768

05/02/11 23 59

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THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

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

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

Compliance Monitoring? Yes ____ No ____

Enforcement Action? Yes ____ No ____

Client Name/Account #: EEG - SBG # 2449

Address: 10179 Highway 78

City/State/Zip: Ladson, SC 29456

Site State: SC

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

PO#: 1027

Telephone Number: 843.412.2097 Fax No: (843) 879-0401

TA Quote #:

Sampler Name: (Print) Pratt Shaw

Project ID: Laurel Bay Housing Project

Sampler Signature:

Project #:

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO3 (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H2SO4 Plastic (Yellow Label)	H2SO4 Glass (Yellow Label)	None (Black Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify)	Analyze For: BTEX + Napth - 8260B	PAH - 8270D									RUSH TAT (Pre-Schedule)
1364 Cardinal-2	4/11/11	1030	5	X					2				2	1					X		X	X		1							
1430 Doue	4/12/11	1130	5	X					2				2	1					X		X	X		2							
1358 Cardinal	4/13/11	1215	5	X					2				2	1					X		X	X		3							
1444 Doue-1	4/14/11	1200	5	X					2				2	1					X		X	X		4							
1444 Doue-2	4/14/11	1445	5	X					2				2	1					X		X	X		5							

Special Instructions:

Method of Shipment: FEDEX

Laboratory Comments:

Temperature Upon Receipt: 0°C

VOCs Free of Headspace? Y

Relinquished by:	Date	Time	Received by:	Date	Time
	4/15/11	0900	FedEx		
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
				4/16/11	0815

ATTACHMENT A

UST Certificate of Disposal

CONTRACTOR

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

TEL (843) 879-0403
FAX (843) 879-0401

TANK ID & LOCATION

UST 1364Cardinal-1, 1364 Cardinal Lane, Laurel Bay Housing Area, MCAS Beaufort, S.C.

DISPOSAL LOCATION

Coastal Auto Salvage Co., Inc.
130 Laurel Bay Road
Beaufort, S.C. 29906

TYPE OF TANK	SIZE (GAL)
Steel	280

CLEANING/DISPOSAL METHOD

The tank and piping were unearthed, cut open, cleaned with a pressure washer, cut into sections, and recycled.

DISPOSAL CERTIFICATION

I certify that the above tank, piping and equipment has been properly cleaned and disposed of.

T. L. McLee / 5/13/11
(Name) (Date)

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
MCAS, BEAUFORT
LAUREL BAY HOUSING
BEAUFORT, SC 29907
4. Generator's Phone 843-228-6461

Generator's Site Address (If different than mailing):

A. Manifest Number: WMNA 00316809
B. State Generator's ID:

5. Transporter 1 Company Name: EEG, INC.
6. US EPA ID Number:
C. State Transporter's ID:
D. Transporter's Phone: 843-879-0411

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address:
HICKORY HILL LANDFILL
2621 LOW COUNTRY ROAD
RIDGELAND, SC 29936
10. US EPA ID Number:
G. State Facility ID:
H. State Facility Phone: 843-987-4643

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. HEATING OIL TANKS FILLED WITH SAND WM Profile # 102655SC		20Y	8.90 TON		
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information
UST's from 1) 1100 IRIS ✓ 2) 1101 IRIS ✓ 3) 1105 IRIS ✓ 4) 1372 DOVE ✓ 5) 1364 CARDINAL - 21 6) 1430 DOVE ✓

Purchase Order #

EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Charles H. Herron	Charles H. Herron	5	11	11

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
James Baldwin	James Baldwin	5	12	11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

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 Name	Signature	Month	Day	Year
Toni Cofield	Toni Cofield	5	12	11

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

Appendix C

Laboratory Analytical Report - Groundwater

CDM - AECOM

Multimedia Joint Venture

Volatile Organic Compounds by GC/MS

Client: **AECOM - Resolution Consultants**
Laboratory ID: **QF24009-019**
Description: **BEALB1364TW01WG20150624**
Matrix: **Aqueous**
Date Sampled: **06/24/2015 0925**
Date Received: **06/25/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/06/2015 1559	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**	**1.5**	**J**	**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**	**0.83**	**J**	**5.0**	0.57	**0.19**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	75-120
1,2-Dichloroethane-d4		90	70-120
Toluene-d8		106	85-120
Dibromofluoromethane		92	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: **QF24009-019**
Description: **BEALB1364TW01WG20150624**
Matrix: **Aqueous**
Date Sampled: **06/24/2015 0925**
Date Received: **06/25/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D (SIM)	1	07/10/2015 1038	DRB1	06/29/2015 1632	78383

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		79	15-139
Fluoranthene-d10		88	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

CDM - AECOM
Multimedia Joint Venture

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **AECOM** ALS Project ID: P1503199
Client Sample ID: **BEALB 1364 SG01 GS20150730** ALS Sample ID: P1503199-022
Client Project ID: **WE56-Laurel Bay Military Housing Area, MCAS Beaufort / 60342031.FI.WI**

Test Code:	EPA TO-15	Date Collected:	7/30/15
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9	Date Received:	8/5/15
Analyst:	Simon Cao	Date Analyzed:	8/11/15
Sampling Media:	6.0 L Summa Canister	Volume(s) Analyzed:	0.10 Liter(s)
Test Notes:			
Container ID:	SC02097		

Initial Pressure (psig): -2.51 Final Pressure (psig): 3.61

Canister Dilution Factor: 1.50

CAS #	Compound	Result µg/m³	LOQ µg/m³	LOD µg/m³	MDL µg/m³	Data Qualifier
71-43-2	Benzene	**2.9**	7.5	6.8	2.4	**J**
108-88-3	Toluene	**7.1**	7.5	6.6	2.6	**J**
100-41-4	Ethylbenzene	**45**	7.5	6.6	2.4	
179601-23-1	m,p-Xylenes	**110**	15	13	4.5	
95-47-6	o-Xylene	**110**	7.5	6.3	2.3	
91-20-3	Naphthalene	**27**	7.5	6.6	2.7	

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

D H E C
PROMOTE PROTECT PROSPER
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 M. Krieg

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

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

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

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	

D H E C
PROMOTE PROTECT PROSPER

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	

dhec
Healthy People. Healthy Communities.

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