

**SUMMARY REPORT
453 IRIS LANE (FORMERLY 1146 IRIS LANE)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC**

**Revision: 0
Prepared for:**

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

and



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

JUNE 2021

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Prepared by:



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

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List of Acronyms

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

1.0 INTRODUCTION

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

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

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 453 Iris Lane (Formerly 1146 Iris Lane). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

1.1 Background Information

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

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

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

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

1.2 UST Removal and Assessment Process

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

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

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

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

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

2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 453 Iris Lane (Formerly 1146 Iris Lane). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1146 Iris Lane* (MCAS Beaufort, 2008) and *SCDHEC UST Assessment Report – 1146 Iris 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 *Investigation of Ground Water at Leaking Heating Oil UST Sites Report –* (Resolution Consultants, 2008) and the *Initial Groundwater Investigation Report – November and December 2015* (Resolution Consultants, 2016). The laboratory report that includes the pertinent IGWA analytical results for this site is presented in Appendix C.

2.1 UST Removal and Soil Sampling

In July 2007 and March 2011, two 280 gallon heating oil USTs were removed at 453 Iris Lane (Formerly 1146 Iris Lane). Tank 1 was removed on July 26, 2007 from the front landscaped bed

area adjacent to the front concrete porch. Tank 2 was removed on March 15, 2011 from the center of the front grassed area. The former UST locations are indicated in the figures of the UST Assessment Reports (Appendix B). The USTs were removed, cleaned, and shipped offsite for recycling. There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Reports (Appendix B), the depths to the bases of the USTs were 5'5" (Tank 1) and 5'1" (Tank 2) bgs and a single soil sample was collected for each at that depth. An additional soil sample was collected from the side of the excavation at a depth of 3'6" for Tank 1. The samples were collected from the fill port side of the former USTs to represent a worst case scenario.

Following UST removal, a soil sample was collected from the base of each excavation and the side in the excavation for Tank 1 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 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 453 Iris Lane (Formerly 1146 Iris Lane) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In letters dated July 16, 2008 and July 1, 2015 regarding Tank 1 and Tank 2, respectively, SCDHEC requested an IGWA for 453 Iris Lane (Formerly 1146 Iris Lane) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letters are provided in Appendix D.

2.3 Groundwater Sampling

On July 25, 2008 and December 2, 2015, temporary monitoring wells were installed at 453 Iris Lane (Formerly 1146 Iris 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 wells were placed in the same general location as the former heating oil USTs. The former UST locations are indicated in the figures of the UST Assessment Reports (Appendix B). Further details are provided in the *Investigation of Ground Water at Leaking Heating Oil UST Sites Report* (Resolution Consultants, 2008) and the *Initial Groundwater Investigation Report – November and December 2015* (Resolution Consultants, 2016).

The sampling strategy for this phase of the investigation required a one-time sampling event of the temporarily installed monitoring wells. 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 *Investigation of Ground Water at Leaking Heating Oil UST Sites Report* (Resolution Consultants, 2008) and the *Initial Groundwater Investigation Report – November and December 2015* (Resolution Consultants, 2016).

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 453 Iris Lane (Formerly 1146 Iris 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 USTs at concentrations that present a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for groundwater, SCDHEC made the determination that NFA was required for 453 Iris Lane (Formerly 1146 Iris Lane). This NFA determination was obtained in letters dated December 19, 2008 and June 8, 2016, regarding Tank 1 and Tank 2, respectively. SCDHEC's NFA letters are provided in Appendix D.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2008. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 1146 Iris Lane, Laurel Bay Military Housing Area*, January 2008.

Marine Corps Air Station Beaufort, 2011. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 1146 Iris Lane, Laurel Bay Military Housing Area*, June 2011.

Resolution Consultants, 2008. *Investigation of Ground Water at Leaking Heating Oil UST Sites Report for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, November 2008.

Resolution Consultants, 2016. *Initial Groundwater Investigation Report – November and December 2015 for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, April 2016.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2013. *Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 2.0*, April 2013.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2015. *Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.0*, May 2015.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2016. *Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.1*, February 2016.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2017. *R.61-92, Part 280, Underground Storage Tank Control Regulations*, March 2017.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2018. *Underground Storage Tank Assessment Instructions for Permanent Closure and Change-In-Service*, March 2018.

South Carolina Department of Health and Environmental Control Bureau of Water, 2016. *R.61-71, Well Standards*, June 2016.

Tables

Table 1
Laboratory Analytical Results - Soil
453 Iris Lane (Formerly 1146 Iris Lane)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Samples Collected 07/26/07 and 03/15/11		
		1146 Iris Bottom 01 07/26/07	1146 Iris Side 02 07/26/07	1146 Iris 03/15/11
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)				
Benzene	0.003	ND	ND	ND
Ethylbenzene	1.15	ND	ND	0.00555
Naphthalene	0.036	ND	0.000409	0.0407
Toluene	0.627	ND	ND	ND
Xylenes, Total	13.01	ND	ND	0.0184
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)				
Benzo(a)anthracene	0.66	ND	0.696	ND
Benzo(b)fluoranthene	0.66	ND	0.663	ND
Benzo(k)fluoranthene	0.66	ND	0.254	ND
Chrysene	0.66	ND	0.938	ND
Dibenz(a,h)anthracene	0.66	ND	ND	ND

Notes:

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

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
453 Iris Lane (Formerly 1146 Iris 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 07/28/08
Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)			
Benzene	5	16.24	ND
Ethylbenzene	700	45.95	ND
Naphthalene	25	29.33	ND
Toluene	1000	105,445	ND
Xylenes, Total	10,000	2,133	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (µg/L)			
Benzo(a)anthracene	10	NA	ND
Benzo(b)fluoranthene	10	NA	ND
Benzo(k)fluoranthene	10	NA	ND
Chrysene	10	NA	ND
Dibenz(a,h)anthracene	10	NA	ND

Notes:

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

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

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

JE - Johnson & Ettinger

NA - Not Applicable

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

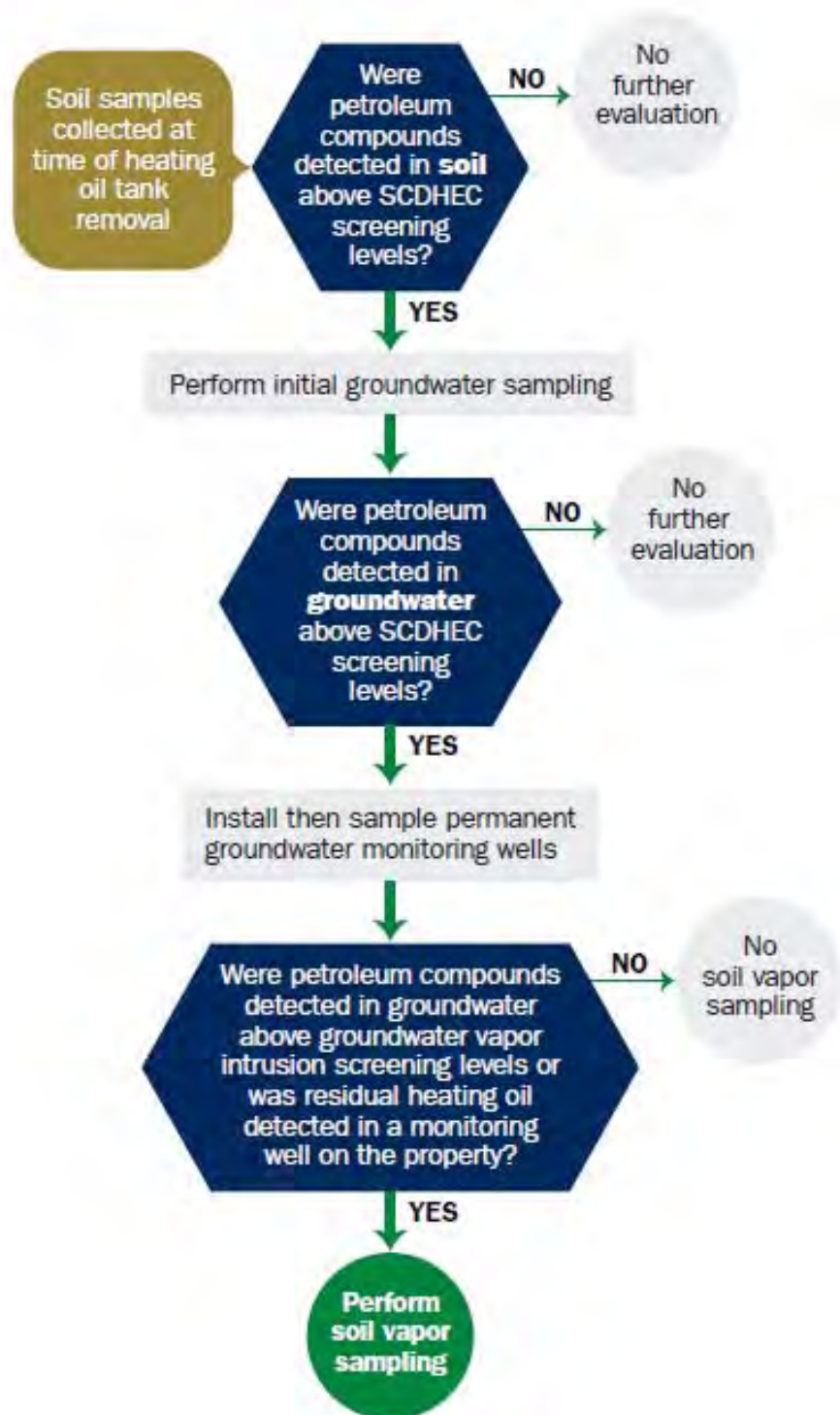
RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

µg/L - micrograms per liter

VISL - Vapor Intrusion Screening Level

Appendix A
Multi-Media Selection Process for LBMH



Appendix A - Multi-Media Selection Process for LBMH

Appendix B
UST Assessment Reports

Attachment 1

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

Submit Completed Form To:

UST Program
SCDHEC
2600 Bull Street
Columbia, South Carolina 29201
Telephone (803) 896-6240

I. OWNERSHIP OF UST (S)

Beaufort Military Complex Family Housing		
Owner Name (Corporation, Individual, Public Agency, Other)		
1510 Laurel Bay Blvd.		
Mailing Address		
Beaufort	SC	29906
City	State	Zip Code
843	379-3305	Kyle Broadfoot
Area Code	Telephone Number	Contact Person

II. SITE IDENTIFICATION AND LOCATION

N/A		
Permit I.D. #		
Actus LEND LEASE Construction		
Facility Name or Company Site Identifier		
1146 RIS LN.		
Street Address or State Road (as applicable)		
Beaufort, SC	29906	Beaufort
City	ZIP	County

III. INSURANCE INFORMATION

Insurance Statement

The petroleum release reported to DHEC on N/A at Permit ID # 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.

And

I do/~~do not~~ (circle one) wish to participate in the Superb Program.

IV. CERTIFICATION (To be signed by the UST owner/operator.)

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

V. UST INFORMATION

Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
#2 DIESEL					
350g					
steel					
65"					
N					
N					
Removed					
7-26-07					
N					
N					

- A. Product...(ex. Gas, Kerosene).....
- B. Capacity..(ex. 1k, 2k).....(APPROX.)
- 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)

Recycling - Scrap Steel

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

TREATMENT FACILITY BROADHURST LANDFILL
Solidification And Subtitle D Landfill

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

VI. PIPING INFORMATION

- A. Construction Material..(ex. Steel, FRP).....
- B. Distance from UST to Dispenser.....
- C. Number of Dispensers.....
- D. Type of System Pressure or Suction.....
- E. Was Piping Removed from the Ground? Y/N
- F. Visible Corrosion or Pitting Y/N.....
- G. Visible Holes Y/N.....
- H. Age.....

Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
Steel					
N/A					
-0-					
Electrical Pump					
Y					
N					
N					

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

Minor corrosion was present on the
fill pipe and vent pipe -

VII. BRIEF SITE DESCRIPTION AND HISTORY

Home Heating Oil Tank - Residential

VIII. SITE CONDITIONS

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

IX. SAMPLE INFORMATION

A.

SCDHEC Lab Certification Number

DW: 84009002

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
					7-26-07	ECHENARRA	
1	BOTTOM	S	SAND	65"	930	XANNAWAGY	ND
2	SIDE	S	SAND	42"	940	XANNAWAGY	ND
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

X.

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.

EPA Method 8260 B Volatile Organic Compounds

- Preservative: 2% Sodium Bisulfate 1EA

EPA Method 8270 Poly Aromatic Hydrocarbons

- No Preservative

One (1) Sidewall And One (1) Bottom

Sample were secured from tank excavation

Samples were stored and shipped in an insulated cooler w/ ice.

XI. RECEPTORS

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

SUMMARY OF ANALYSIS RESULTS

N/A

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

CoC	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8
Benzene								
Toluene								
Ethylbenzene								
Xylenes								
Naphthalene								
Benzo(a)anthracene								
Benzo(b)flouranthene								
Benzo(k)flouranthene								
Chrysene								
Dibenz(a,h)anthracene								
TPH (EPA 3550)								

CoC	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16
Benzene								
Toluene								
Ethylbenzene								
Xylenes								
Naphthalene								
Benzo(a)anthracene								
Benzo(b)flouranthene								
Benzo(k)flouranthene								
Chrysene								
Dibenz(a,h)anthracene								
TPH (EPA 3550)								

SUMMARY OF ANALYSIS RESULTS (cont'd)

N/A

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	.05				
Lead	Site specific				

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)

ANALYTICAL TESTING CORPORATION

Client #: 2411

City/State/Zip Code:

Project Manager: JOHN MAHONEY

Telephone Number:

Sampler Name: (Print Name) CHRIS ECHEVARRIA

Sampler Signature: 

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

Project Name: LAUREL RAY

Project #: 2362

Site/Location ID:

State

Report To:

Invoice To:

Quote #:

POW:

QC Deliverables
☐ None
☒ ~~Level 2~~
 (Batch QC)
☐ Level 3
☐ Level 4
 Other:

REMARKS

01
02
03
04
05
06
07
08
09
10

Special Instructions:

LABORATORY COMMENTS:

Init Lab Temp:

Rec Lab Term

Custody Seals:	Y	N	N/A
----------------	---	---	-----

Bottles Supplied by Test America: Y N

8623 591.1725

Method of Shipment: Fe dextoTA- (V/denC)

Relinquished By: Echevarria

9

Time:

[Signature]

27

L. 7

Relinquished By: *[Signature]*

Date:

Time:

Received By:

Date:

L

Relinquished By:

Date:

Time:

Received 8.

1

100

TestAmerica

ANALYTICAL TESTING CORPORATION

0040044 Page 2 of 3

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

Compliance Monitoring

Client Name EPG

Client #: 2411

Address:

City/State/Zip Code:

Project Manager: JOHN MAHONEY

Telephone Number:

Fax:

Sampler Name: (Print Name) CHRIS ECHEVARRIA

Sampler Signature: CHRIS ECHEVARRIA

Project Name: LAUREL BAY

Project #: EP 2362

Site/Location ID:

State:

Report To:

Invoice To:

Quote #:

PO#:

FAT <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (surcharges may apply)										Matrix		Preservation		# of Containers		Analyze For:										QC Deliverables			
Date Needed: _____																												<input type="checkbox"/> None <input checked="" type="checkbox"/> Level 2 (Batch QC) <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: _____	
Fax Results: Y N																													
SAMPLE ID				Date Sampled		Time Sampled		G = Grab, C = Composite		Field Filtered		SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other		HNO ₃ HCl NaOH		H ₂ SO ₄ Methanol None Other (Specify)		RTEX-NAPTH 8260 PAH 8270										REMARKS	
1146 IRIS BOTTOM 01				7-26-07		930		G								1 2 2		X X											
1146 IRIS SIDE 02				7-26		940		C								1 2 2		X X											
1150 IRIS BOTTOM 01				7-26		1405		G								1 2 2		X X											
1150 IRIS SIDE 02				7-26		1405		C								1 2 2		X X											
1052 GARDENIA BOTTOM 01				7-27-07		845		G								1 2 2		X X											
1052 GARDENIA SIDE 02				7-27-07		845		C								1 2 2		X X											
1056 GARDENIA BOTTOM 01						1200		G								1 2 2		X X											
1056 GARDENIA SIDE 02						1200		C								1 2 2		X X											
1056 GARDENIA BOTTOM 03						1220		G								1 2 2		X X											
1056 GARDENIA SIDE 04				✓		1220		C								1 2 2		X X											
Special Instructions:																													

Special Instructions:

LABORATORY COMMENTS:

Init Lab Temp:

Rec Lab Temp:

Custody Seals: Y N N/A

Bottles Supplied by Test America: Y N

8623 2591 1736

Method of Shipment: FEDEX TA: O. March

Relinquished By: <u>Chris Echevarria</u>	Date: <u>8/1/07</u>	Time: <u>0900</u>	Received By: <u>[Signature]</u>	Date: <u>8/1/07</u>	Time: <u>0900</u>
Relinquished By: <u>[Signature]</u>	Date: <u>8/1/07</u>	Time: <u>1730</u>	Received By: <u>[Signature]</u>	Date: <u>8/2</u>	Time: <u>0900</u>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:



Client #: 2411

City/State/Zip Code:

Project Manager: JOHN MAHONEY

Telephone Number:

Sampler Name: (Print Name) IRIS ECHEVARRIA

Sampler Signature: *[Signature]*

0A+0044

Page 5 of 3

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

Project Name: LAUREL BAY

Project #: EP 2362

Site/Location ID: State:

Report To:

Invoice To:

Quote #: PO#:

TAT Standard Rush (surcharges may apply)		Date Needed:	Fax Results: Y N	SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	PRESERVATION HNO ₃ HCl NaOH H ₂ O ₂ Methanol None Other (Specify)	# of Containers	Analyze For: BTX + NAPTHS PAH 8270	QC Deliverables None Level 2 (Batch QC) Level 3 Level 4 Other:	REMARKS	
				1036 IRIS BOTTOM 01	7-23-07	1010	G								
				1036 IRIS SIDE 02	7-23-07	1020	C								
				1106 IRIS BOTTOM 01											
				1106 IRIS SIDE 02											
				1106 IRIS BOTTOM 01	7-23-07	1140	G								
				1106 IRIS SIDE 02	7-23-07	1150	C								
				1120 IRIS BOTTOM 01	7-23-07	1500	G								
				1120 IRIS SIDE 02	7-23-07	1500	C								
				1116 IRIS BOTTOM 01	7-24-07	0800	R								
				1116 IRIS SIDE 02	7-24-07	0800	C								
Special Instructions:													LABORATORY COMMENTS:		
Chris Echegarria													Init Lab Temp:		
													Rec Lab Temp:		
Relinquished By:		Date:		Time:		Received By:		Date:		Time:		Custody Seals: Y N NA		Bottles Supplied by Test America: Y N	
Relinquished By:		Date:		Time:		Received By:		Date:		Time:		Method of Shipment:			

Client: EPG, INC.
PO BOX 1096
MT PLEASANT, SC 29465
Attn: JOHN MAHONEY

Work Order: OQH0044
Project: LAUREL BAY
Project Number: EP2362

Sampled: 07/23/07-07/27/07
Received: 08/02/07

LABORATORY REPORT

Sample ID: 1146 IRIS BOTTOM 01 - Lab Number: OQH0044-11 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General Chemistry Parameters											
NA	% Solids	84.6		%	0.100	0.100	1	08/02/07 17:45	RRP	EPA 160.3	7H02039
Volatile Organic Compounds by EPA Method 8260B											
71-43-2	Benzene	0.0830	U	ug/kg dry	0.0830	0.227	1	08/03/07 23:34	JWT	EPA 8260B	7H03050
100-41-4	Ethylbenzene	0.0959	U	ug/kg dry	0.0959	0.227	1	08/03/07 23:34	JWT	EPA 8260B	7H03050
91-20-3	Naphthalene	0.125	U	ug/kg dry	0.125	0.227	1	08/03/07 23:34	JWT	EPA 8260B	7H03050
108-88-3	Toluene	0.196	U	ug/kg dry	0.196	0.227	1	08/03/07 23:34	JWT	EPA 8260B	7H03050
1330-20-7	Xylenes, total	0.118	U	ug/kg dry	0.118	0.227	1	08/03/07 23:34	JWT	EPA 8260B	7H03050
Surrogate: 1,2-Dichloroethane-d4 (73-137%)		116 %									
Surrogate: 4-Bromofluorobenzene (59-118%)		105 %									
Surrogate: Dibromofluoromethane (55-145%)		109 %									
Surrogate: Toluene-d8 (80-117%)		103 %									
Polynuclear Aromatic Hydrocarbons by EPA Method 8270											
83-32-9	Acenaphthene	87.5	U	ug/kg dry	87.5	197	1	08/10/07 10:23	REM	EPA 8270C	7H06004
208-96-8	Acenaphthylene	115	U	ug/kg dry	115	197	1	08/10/07 10:23	REM	EPA 8270C	7H06004
120-12-7	Anthracene	63.0	U	ug/kg dry	63.0	197	1	08/10/07 10:23	REM	EPA 8270C	7H06004
56-55-3	Benzo (a) anthracene	21.4	U	ug/kg dry	21.4	197	1	08/10/07 10:23	REM	EPA 8270C	7H06004
205-99-2	Benzo (b) fluoranthene	20.8	U	ug/kg dry	20.8	197	1	08/10/07 10:23	REM	EPA 8270C	7H06004
207-08-9	Benzo (k) fluoranthene	20.8	U	ug/kg dry	20.8	197	1	08/10/07 10:23	REM	EPA 8270C	7H06004
191-24-2	Benzo (g,h,i) perylene	20.5	U	ug/kg dry	20.5	197	1	08/10/07 10:23	REM	EPA 8270C	7H06004
50-32-8	Benzo (a) pyrene	24.3	U	ug/kg dry	24.3	197	1	08/10/07 10:23	REM	EPA 8270C	7H06004
90-12-0	1-Methylnaphthalene	99.1	U	ug/kg dry	99.1	197	1	08/10/07 10:23	REM	EPA 8270C	7H06004
118-01-9	Chrysene	23.6	U	ug/kg dry	23.6	197	1	08/10/07 10:23	REM	EPA 8270C	7H06004
13-70-3	Dibenz (a,h) anthracene	25.9	U	ug/kg dry	25.9	197	1	08/10/07 10:23	REM	EPA 8270C	7H06004
106-44-0	Fluoranthene	28.4	U	ug/kg dry	28.4	197	1	08/10/07 10:23	REM	EPA 8270C	7H06004
16-73-7	Fluorene	77.3	U	ug/kg dry	77.3	197	1	08/10/07 10:23	REM	EPA 8270C	7H06004
93-39-5	Indeno (1,2,3-cd) pyrene	25.6	U	ug/kg dry	25.6	197	1	08/10/07 10:23	REM	EPA 8270C	7H06004
1-57-6	2-Methylnaphthalene	84.2	U	ug/kg dry	84.2	197	1	08/10/07 10:23	REM	EPA 8270C	7H06004
1-20-3	Naphthalene	79.3	U	ug/kg dry	79.3	197	1	08/10/07 10:23	REM	EPA 8270C	7H06004
5-01-8	Phenanthrene	46.6	U	ug/kg dry	46.6	197	1	08/10/07 10:23	REM	EPA 8270C	7H06004
29-00-0	Pyrene	40.1	U	ug/kg dry	40.1	197	1	08/10/07 10:23	REM	EPA 8270C	7H06004
Surrogate: 2-Fluorobiphenyl (24-121%)		41 %									
Surrogate: Nitrobenzene-d5 (19-111%)		41 %									
Surrogate: Terphenyl-d14 (44-171%)		88 %									

LABORATORY REPORT

Sample ID: 1146 IRIS SIDE 02 - Lab Number: OQH0044-12 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General Chemistry Parameters											
A	% Solids	82.1		%	0.100	0.100	1	08/02/07 17:45	RRP	EPA 160.3	7H02039
Volatile Organic Compounds by EPA Method 8260B											
71-43-2	Benzene	0.112	U	ug/kg dry	0.112	0.305	1	08/03/07 23:51	JWT	EPA 8260B	7H03050
100-41-4	Ethylbenzene	0.129	U	ug/kg dry	0.129	0.305	1	08/03/07 23:51	JWT	EPA 8260B	7H03050

Client: EPG, INC.
PO BOX 1096
MT PLEASANT, SC 29465
Attn: JOHN MAHONEY

Work Order: OQH0044
Project: LAUREL BAY
Project Number: EP2362

Sampled: 07/23/07-07/27/07
Received: 08/02/07

LABORATORY REPORT

Sample ID: 1146 IRIS SIDE 02 - Lab Number: OQH0044-12 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Volatile Organic Compounds by EPA Method 8260B - Cont.											
91-20-3	Naphthalene	0.409		ug/kg dry	0.169	0.305	1	08/03/07 23:51	JWT	EPA 8260B	7H03050
108-88-3	Toluene	0.264	U	ug/kg dry	0.264	0.305	1	08/03/07 23:51	JWT	EPA 8260B	7H03050
1330-20-7	Xylenes, total	0.159	U	ug/kg dry	0.159	0.305	1	08/03/07 23:51	JWT	EPA 8260B	7H03050
Surrogate: 1,2-Dichloroethane-d4 (73-137%)		121 %									
Surrogate: 4-Bromofluorobenzene (59-118%)		103 %									
Surrogate: Dibromofluoromethane (55-145%)		109 %									
Surrogate: Toluene-d8 (80-117%)		103 %									
Polynuclear Aromatic Hydrocarbons by EPA Method 8270											
83-32-9	Acenaphthene	90.1	U	ug/kg dry	90.1	203	1	08/10/07 10:45	REM	EPA 8270C	7H06004
208-96-8	Acenaphthylene	119	U	ug/kg dry	119	203	1	08/10/07 10:45	REM	EPA 8270C	7H06004
120-12-7	Anthracene	64.9	U	ug/kg dry	64.9	203	1	08/10/07 10:45	REM	EPA 8270C	7H06004
56-55-3	Benzo (a) anthracene	696		ug/kg dry	22.0	203	1	08/10/07 10:45	REM	EPA 8270C	7H06004
205-99-2	Benzo (b) fluoranthene	663		ug/kg dry	21.4	203	1	08/10/07 10:45	REM	EPA 8270C	7H06004
207-08-9	Benzo (k) fluoranthene	254		ug/kg dry	21.4	203	1	08/10/07 10:45	REM	EPA 8270C	7H06004
191-24-2	Benzo (g,h,i) perylene	134	I	ug/kg dry	21.1	203	1	08/10/07 10:45	REM	EPA 8270C	7H06004
50-32-8	Benzo (a) pyrene	380		ug/kg dry	25.0	203	1	08/10/07 10:45	REM	EPA 8270C	7H06004
90-12-0	1-Methylnaphthalene	102	U	ug/kg dry	102	203	1	08/10/07 10:45	REM	EPA 8270C	7H06004
218-01-9	Chrysene	938		ug/kg dry	24.3	203	1	08/10/07 10:45	REM	EPA 8270C	7H06004
53-70-3	Dibenz (a,h) anthracene	26.7	U	ug/kg dry	26.7	203	1	08/10/07 10:45	REM	EPA 8270C	7H06004
206-44-0	Fluoranthene	488		ug/kg dry	29.3	203	1	08/10/07 10:45	REM	EPA 8270C	7H06004
36-73-7	Fluorene	79.6	U	ug/kg dry	79.6	203	1	08/10/07 10:45	REM	EPA 8270C	7H06004
93-39-5	Indeno (1,2,3-cd) pyrene	139	I	ug/kg dry	26.3	203	1	08/10/07 10:45	REM	EPA 8270C	7H06004
91-57-6	2-Methylnaphthalene	86.7	U	ug/kg dry	86.7	203	1	08/10/07 10:45	REM	EPA 8270C	7H06004
91-20-3	Naphthalene	81.7	U	ug/kg dry	81.7	203	1	08/10/07 10:45	REM	EPA 8270C	7H06004
50-01-8	Phenanthrene	48.0	U	ug/kg dry	48.0	203	1	08/10/07 10:45	REM	EPA 8270C	7H06004
29-00-0	Pyrene	716		ug/kg dry	41.3	203	1	08/10/07 10:45	REM	EPA 8270C	7H06004
Surrogate: 2-Fluorobiphenyl (24-121%)		52 %									
Surrogate: Nitrobenzene-d5 (19-111%)		52 %									
Surrogate: Terphenyl-d14 (44-171%)		83 %									

LABORATORY REPORT

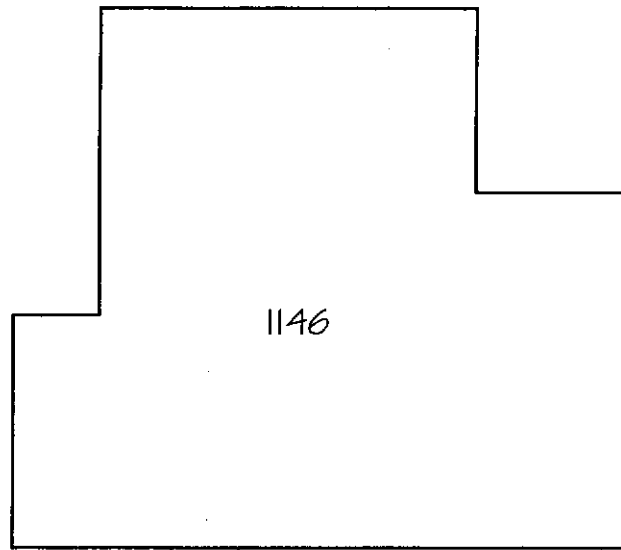
Sample ID: 1150 IRIS BOTTOM 01 - Lab Number: OQH0044-13 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General Chemistry Parameters											
A	% Solids	73.9		%	0.100	0.100	1	08/02/07 17:45	RRP	EPA 160.3	7H02039
Volatile Organic Compounds by EPA Method 8260B											
71-43-2	Benzene	0.123	U	ug/kg dry	0.123	0.336	1	08/04/07 00:08	JWT	EPA 8260B	7H03050
100-41-4	Ethylbenzene	0.142	U	ug/kg dry	0.142	0.336	1	08/04/07 00:08	JWT	EPA 8260B	7H03050
91-20-3	Naphthalene	0.185	U	ug/kg dry	0.185	0.336	1	08/04/07 00:08	JWT	EPA 8260B	7H03050
108-88-3	Toluene	0.356		ug/kg dry	0.290	0.336	1	08/04/07 00:08	JWT	EPA 8260B	7H03050
1330-20-7	Xylenes, total	0.174	U	ug/kg dry	0.174	0.336	1	08/04/07 00:08	JWT	EPA 8260B	7H03050
Surrogate: 1,2-Dichloroethane-d4 (73-137%)		132 %									

TestAmerica - Orlando, FL
Enid Ortiz For Shali Brown
Project Manager

1146 IRIS

07.26.2007 10:39



1146

A B

TANK 1
BASE 66"

IRIS LANE

TANK 1 EXCAVATION

A-SOIL TEST SIDE SAMPLE @ 42"

B-SOIL TEST BOTTOM SAMPLE @ 66"



CUSTOMER :

BEAUFORT MILITARY COMPLEX FAMILY HOUSING

SITE ADDRESS :

1146 IRIS LANE

SCALE :

1/16"=1'-0"

SUPPLIER :

EPG INC.

DATE :

9/22/2007

EPG INC.

P.O. BOX 1096

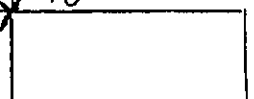
MOUNT PLEASANT, SC 29465-1096

1146 1215 LN

7-26-07

48"

155"



BASE DEPTH 65"

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	
1146 Iris 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

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 1146Iris was removed from the ground and disposed of at a
Subtitle "D" landfill. See Attachment "A."

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

UST 1146Iris 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 throughout the tank.

1146Iris				
Heating oil				
280 gal				
Late 1950s				
Steel				
Mid 1980s				
5'1"				
No				
No				
Removed				
3/15/2011				
Yes				
Yes				

VII. PIPING INFORMATION

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

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

C. Number of Dispensers.....

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

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

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

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

H. Age.....

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

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

1146Iris				
Steel & Copper				
N/A				
N/A				
Suction				
No				
Yes				
No				
Late 1950s				

VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

IX. SITE CONDITIONS

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

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
1146	Iris Excav at fill end	Soil	Sandy	5'1"	3/15/11 1100 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.

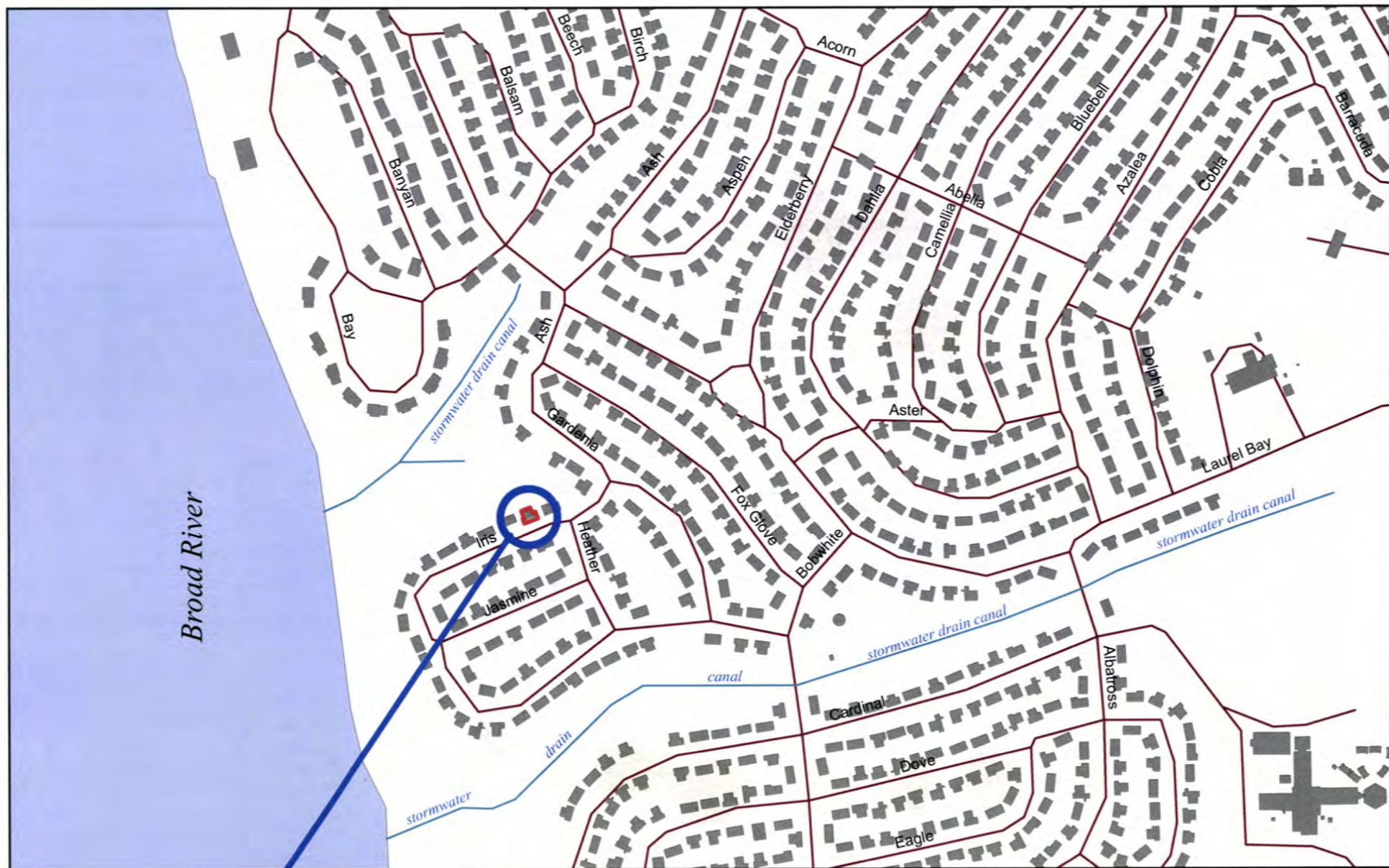
XII. RECEPTORS

	Yes	No
<p>A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? *Approx 120' to stormwater canal & 830' to Broad River. If yes, indicate type of receptor, distance, and direction on site map.</p>	*X	
<p>B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system? If yes, indicate type of well, distance, and direction on site map.</p>		X
<p>C. Are there any underground structures (e.g., basements) Located within 100 feet of the UST system? If yes, indicate type of structure, distance, and direction on site map.</p>		X
<p>D. Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? *Sewer, water, electricity, cable & fiber optic If yes, indicate the type of utility, distance, and direction on the site map.</p>	*X	
<p>E. Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete? If yes, indicate the area of contaminated soil on the site map.</p>		X

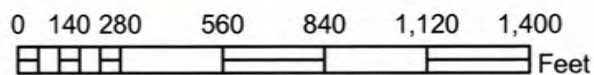
XIII. SITE MAP

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

(Attach Site Map Here)



1146 IRIS LANE



SBG-EEG, Inc.

398 E. 5th North Street, Suite C
Summerville SC 29483-6954

Ph. (843) 875-1930

Drawn By: L. DiAsio

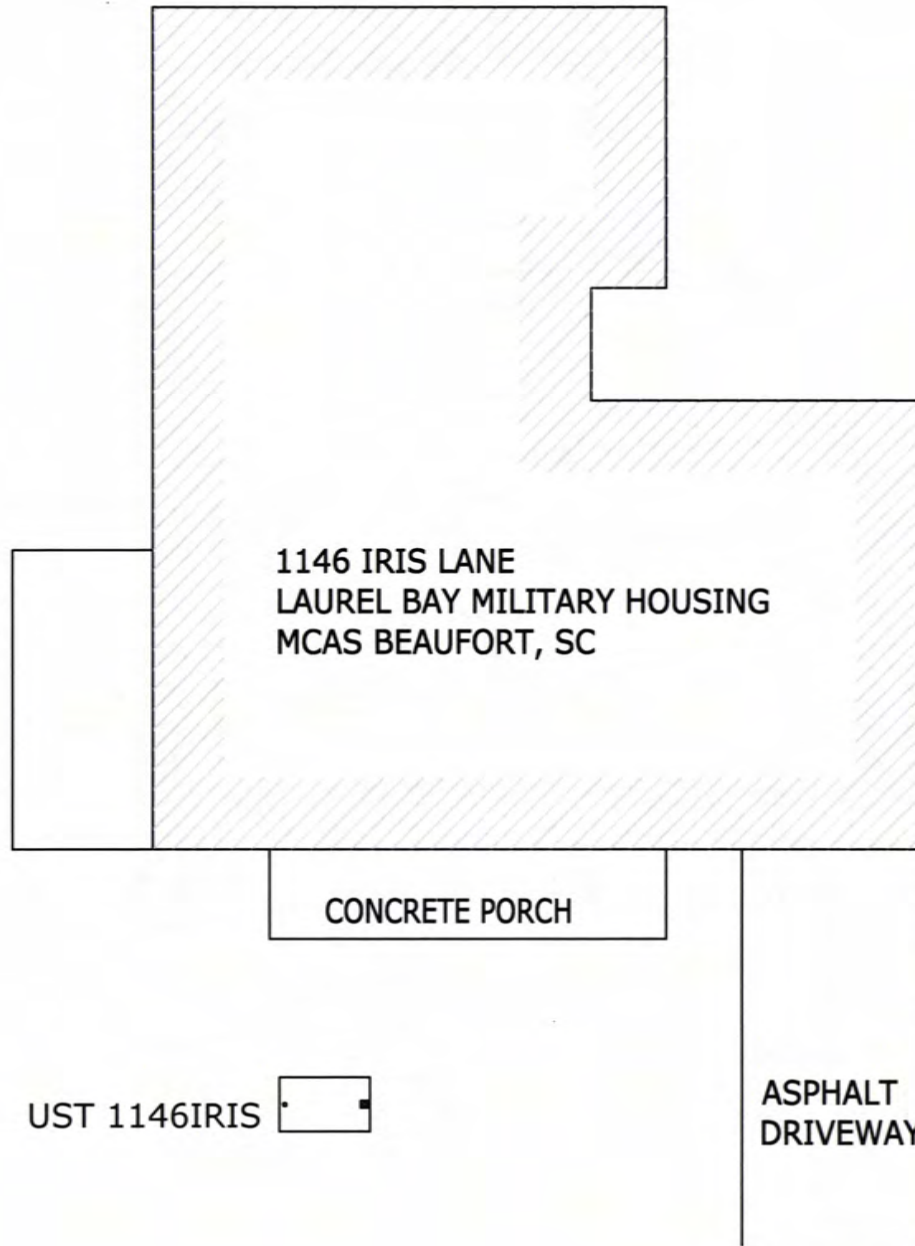
Dwg Date: APR 2011

**FIGURE 1: LOCATION MAP
1146 IRIS LANE
LAUREL BAY, BEAUFORT SC**



STORMWATER DRAINAGE
CANAL $\approx 120'$

BROAD R. $\approx 830'$



1146 IRIS LANE
LAUREL BAY MILITARY HOUSING
MCAS BEAUFORT, SC

CONCRETE PORCH

UST 1146IRIS

ASPHALT
DRIVEWAY

GRAPHIC SCALE

0 5' 10' 20'

SBG-EEG

10179 HWY 78
LADSON, SC 29456

ph. (843) 879-0400

FIGURE 2 SITE MAP
1146 IRIS LANE, LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE APR 2011

1146 IRIS LANE

CONCRETE PORCH

GRASS

ASPHALT DRIVEWAY

EXCAVATION

FILL END

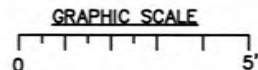


UST 1146IRIS
280 GAL.

SOIL SAMPLE
1146 IRIS

STORMWATER DRAINAGE
CANAL \approx 120'

BROAD R. \approx 830'



UST 1146IRIS WAS
26" BELOW GRADE.

SBG-EEG

10179 HWY 78
LADSON, SC 29456

ph. (843) 879-0400

FIGURE 3 UST SAMPLE LOCATIONS
1146 IRIS LANE, LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE APR 2011



Picture 1: Location of UST 1146Iris.



Picture 2: UST 1146Iris tank pit.

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	1146Iris						
Benzene		ND						
Toluene		ND						
Ethylbenzene		0.00555 mg/kg						
Xylenes		0.0184 mg/kg						
Naphthalene		0.0407 mg/kg						
Benzo (a) anthracene		ND						
Benzo (b) fluoranthene		ND						
Benzo (k) fluoranthene		ND						
Chrysene		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)

March 31, 2011

9:52:21AM

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

Work Order: NUC3441
Project Name: Laurel Bay Housing Project
Project Nbr: [none]
P/O Nbr: 1027
Date Received: 03/19/11

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
1034 Foxglove	NUC3441-01	03/14/11 11:45
1081 Heather	NUC3441-02	03/14/11 16:30
1146 Iris	NUC3441-03	03/15/11 11:00
1142 Iris	NUC3441-04	03/15/11 16:00
1124 Iris	NUC3441-05	03/16/11 16:00

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

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

South Carolina Certification Number: 84009

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

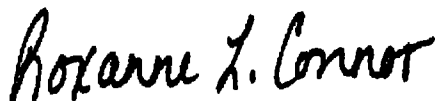
These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

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 Connor

Program Manager - Conventional Accounts

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

Work Order: NUC3441
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 03/19/11 08:15

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUC3441-01 (1034 Foxglove - Soil) Sampled: 03/14/11 11:45										
General Chemistry Parameters										
% Dry Solids	80.7		%	0.500	0.500	1	03/30/11 14:37	SW-846	AMS	11C7014
Volatile Organic Compounds by EPA Method 8260B										
Benzene	0.00169	J	mg/kg dry	0.00125	0.00227	1	03/28/11 13:42	SW846 8260B	MJH	11C5212
Ethylbenzene	2.42		mg/kg dry	0.0711	0.145	50	03/28/11 17:20	SW846 8260B	MJH	11C5212
Naphthalene	19.6	B1	mg/kg dry	2.47	7.26	1000	03/28/11 20:57	SW846 8260B	MJH	11C5212
Toluene	0.0148		mg/kg dry	0.00101	0.00227	1	03/28/11 13:42	SW846 8260B	MJH	11C5212
Xylenes, total	7.92		mg/kg dry	0.138	0.363	50	03/28/11 17:20	SW846 8260B	MJH	11C5212
Surr: 1,2-Dichloroethane-d4 (67-138%)	96 %					1	03/28/11 13:42	SW846 8260B	MJH	11C5212
Surr: 1,2-Dichloroethane-d4 (67-138%)	81 %					50	03/28/11 17:20	SW846 8260B	MJH	11C5212
Surr: 1,2-Dichloroethane-d4 (67-138%)	93 %					1000	03/28/11 20:57	SW846 8260B	MJH	11C5212
Surr: Dibromofluoromethane (75-125%)	100 %					1	03/28/11 13:42	SW846 8260B	MJH	11C5212
Surr: Dibromofluoromethane (75-125%)	81 %					50	03/28/11 17:20	SW846 8260B	MJH	11C5212
Surr: Dibromofluoromethane (75-125%)	93 %					1000	03/28/11 20:57	SW846 8260B	MJH	11C5212
Surr: Toluene-d8 (76-129%)	403 %	ZX				1	03/28/11 13:42	SW846 8260B	MJH	11C5212
Surr: Toluene-d8 (76-129%)	107 %					50	03/28/11 17:20	SW846 8260B	MJH	11C5212
Surr: Toluene-d8 (76-129%)	104 %					1000	03/28/11 20:57	SW846 8260B	MJH	11C5212
Surr: 4-Bromofluorobenzene (67-147%)	371 %	ZX				1	03/28/11 13:42	SW846 8260B	MJH	11C5212
Surr: 4-Bromofluorobenzene (67-147%)	134 %					50	03/28/11 17:20	SW846 8260B	MJH	11C5212
Surr: 4-Bromofluorobenzene (67-147%)	99 %					1000	03/28/11 20:57	SW846 8260B	MJH	11C5212
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	1.76		mg/kg dry	0.0173	0.0827	1	03/24/11 22:18	SW846 8270D	KJP	11C5269
Acenaphthylene	ND		mg/kg dry	0.0247	0.0827	1	03/24/11 22:18	SW846 8270D	KJP	11C5269
Anthracene	ND		mg/kg dry	0.0111	0.0827	1	03/24/11 22:18	SW846 8270D	KJP	11C5269
Benzo (a) anthracene	0.0839		mg/kg dry	0.0136	0.0827	1	03/24/11 22:18	SW846 8270D	KJP	11C5269
Benzo (a) pyrene	ND		mg/kg dry	0.00987	0.0827	1	03/24/11 22:18	SW846 8270D	KJP	11C5269
Benzo (b) fluoranthene	ND		mg/kg dry	0.0469	0.0827	1	03/24/11 22:18	SW846 8270D	KJP	11C5269
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0111	0.0827	1	03/24/11 22:18	SW846 8270D	KJP	11C5269
Benzo (k) fluoranthene	ND		mg/kg dry	0.0456	0.0827	1	03/24/11 22:18	SW846 8270D	KJP	11C5269
Chrysene	0.134		mg/kg dry	0.0382	0.0827	1	03/24/11 22:18	SW846 8270D	KJP	11C5269
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0185	0.0827	1	03/24/11 22:18	SW846 8270D	KJP	11C5269
Fluoranthene	ND		mg/kg dry	0.0136	0.0827	1	03/24/11 22:18	SW846 8270D	KJP	11C5269
Fluorene	ND		mg/kg dry	0.0247	0.0827	1	03/24/11 22:18	SW846 8270D	KJP	11C5269
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0382	0.0827	1	03/24/11 22:18	SW846 8270D	KJP	11C5269
Naphthalene	14.3		mg/kg dry	0.173	0.827	10	03/25/11 23:53	SW846 8270D	KJP	11C5269
Phenanthrene	9.16		mg/kg dry	0.123	0.827	10	03/25/11 23:53	SW846 8270D	KJP	11C5269
Pyrene	1.04		mg/kg dry	0.0284	0.0827	1	03/24/11 22:18	SW846 8270D	KJP	11C5269
1-Methylnaphthalene	30.1		mg/kg dry	0.148	0.827	10	03/25/11 23:53	SW846 8270D	KJP	11C5269
2-Methylnaphthalene	43.3		mg/kg dry	1.30	4.13	50	03/26/11 00:15	SW846 8270D	KJP	11C5269
Surr: Terphenyl-d14 (18-120%)	81 %					1	03/24/11 22:18	SW846 8270D	KJP	11C5269

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

Work Order: NUC3441
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 03/19/11 08:15

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUC3441-01 (1034 Foxglove - Soil) - cont. Sampled: 03/14/11 11:45										
Polyaromatic Hydrocarbons by EPA 8270D - cont.										
Surr: 2-Fluorobiphenyl (14-120%)	79 %					1	03/24/11 22:18	SW846 8270D	KJP	11C5269
Surr: Nitrobenzene-d5 (17-120%)	63 %					1	03/24/11 22:18	SW846 8270D	KJP	11C5269
Sample ID: NUC3441-02 (1081 Heather - Soil) Sampled: 03/14/11 16:30										
General Chemistry Parameters										
% Dry Solids	80.8		%	0.500	0.500	1	03/30/11 14:37	SW-846	AMS	11C7014
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00119	0.00216	1	03/28/11 14:13	SW846 8260B	MJH	11C5212
Ethylbenzene	0.216		mg/kg dry	0.00106	0.00216	1	03/28/11 14:13	SW846 8260B	MJH	11C5212
Naphthalene	0.568	B1, E	mg/kg dry	0.00184	0.00541	1	03/28/11 14:13	SW846 8260B	MJH	11C5212
Toluene	0.0333		mg/kg dry	0.000963	0.00216	1	03/28/11 14:13	SW846 8260B	MJH	11C5212
Xylenes, total	0.705	E	mg/kg dry	0.00206	0.00541	1	03/28/11 14:13	SW846 8260B	MJH	11C5212
Surr: 1,2-Dichloroethane-d4 (67-138%)	90 %					1	03/28/11 14:13	SW846 8260B	MJH	11C5212
Surr: Dibromofluoromethane (75-125%)	90 %					1	03/28/11 14:13	SW846 8260B	MJH	11C5212
Surr: Toluene-d8 (76-129%)	116 %					1	03/28/11 14:13	SW846 8260B	MJH	11C5212
Surr: 4-Bromofluorobenzene (67-147%)	87 %					1	03/28/11 14:13	SW846 8260B	MJH	11C5212
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	1.39		mg/kg dry	0.0172	0.0826	1	03/24/11 22:40	SW846 8270D	KJP	11C5269
Acenaphthylene	ND		mg/kg dry	0.0246	0.0826	1	03/24/11 22:40	SW846 8270D	KJP	11C5269
Anthracene	7.03		mg/kg dry	0.111	0.826	10	03/26/11 00:38	SW846 8270D	KJP	11C5269
Benzo (a) anthracene	15.8		mg/kg dry	0.136	0.826	10	03/26/11 00:38	SW846 8270D	KJP	11C5269
Benzo (a) pyrene	5.92		mg/kg dry	0.0986	0.826	10	03/26/11 00:38	SW846 8270D	KJP	11C5269
Benzo (b) fluoranthene	8.21		mg/kg dry	0.468	0.826	10	03/26/11 00:38	SW846 8270D	KJP	11C5269
Benzo (g,h,i) perylene	1.47		mg/kg dry	0.0111	0.0826	1	03/24/11 22:40	SW846 8270D	KJP	11C5269
Benzo (k) fluoranthene	5.79		mg/kg dry	0.456	0.826	10	03/26/11 00:38	SW846 8270D	KJP	11C5269
Chrysene	14.6		mg/kg dry	0.382	0.826	10	03/26/11 00:38	SW846 8270D	KJP	11C5269
Dibenz (a,h) anthracene	0.158		mg/kg dry	0.0185	0.0826	1	03/24/11 22:40	SW846 8270D	KJP	11C5269
Fluoranthene	43.7		mg/kg dry	0.678	4.13	50	03/26/11 00:59	SW846 8270D	KJP	11C5269
Fluorene	3.81		mg/kg dry	0.0246	0.0826	1	03/24/11 22:40	SW846 8270D	KJP	11C5269
Indeno (1,2,3-cd) pyrene	1.53		mg/kg dry	0.0382	0.0826	1	03/24/11 22:40	SW846 8270D	KJP	11C5269
Naphthalene	5.58		mg/kg dry	0.172	0.826	10	03/26/11 00:38	SW846 8270D	KJP	11C5269
Phenanthrene	31.7		mg/kg dry	0.123	0.826	10	03/26/11 00:38	SW846 8270D	KJP	11C5269
Pyrene	33.8		mg/kg dry	0.283	0.826	10	03/26/11 00:38	SW846 8270D	KJP	11C5269
1-Methylnaphthalene	25.4		mg/kg dry	0.148	0.826	10	03/26/11 00:38	SW846 8270D	KJP	11C5269
2-Methylnaphthalene	41.0		mg/kg dry	0.259	0.826	10	03/26/11 00:38	SW846 8270D	KJP	11C5269
Surr: Terphenyl-d14 (18-120%)	74 %					1	03/24/11 22:40	SW846 8270D	KJP	11C5269
Surr: 2-Fluorobiphenyl (14-120%)	54 %					1	03/24/11 22:40	SW846 8270D	KJP	11C5269
Surr: Nitrobenzene-d5 (17-120%)	77 %					1	03/24/11 22:40	SW846 8270D	KJP	11C5269

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

Work Order: NUC3441
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 03/19/11 08:15

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUC3441-03 (1146 Iris - Soil) Sampled: 03/15/11 11:00										
General Chemistry Parameters										
% Dry Solids	81.8		%	0.500	0.500	1	03/30/11 14:37	SW-846	AMS	11C7014
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00194	0.00352	1	03/28/11 16:49	SW846 8260B	MJH	11C5212
Ethylbenzene	0.00555		mg/kg dry	0.00173	0.00352	1	03/28/11 16:49	SW846 8260B	MJH	11C5212
Naphthalene	0.0407	B1	mg/kg dry	0.00300	0.00881	1	03/28/11 16:49	SW846 8260B	MJH	11C5212
Toluene	ND		mg/kg dry	0.00157	0.00352	1	03/28/11 16:49	SW846 8260B	MJH	11C5212
Xylenes, total	0.0184		mg/kg dry	0.00335	0.00881	1	03/28/11 16:49	SW846 8260B	MJH	11C5212
Surr: 1,2-Dichloroethane-d4 (67-138%)	90 %					1	03/28/11 16:49	SW846 8260B	MJH	11C5212
Surr: Dibromofluoromethane (75-125%)	90 %					1	03/28/11 16:49	SW846 8260B	MJH	11C5212
Surr: Toluene-d8 (76-129%)	112 %					1	03/28/11 16:49	SW846 8260B	MJH	11C5212
Surr: 4-Bromofluorobenzene (67-147%)	110 %					1	03/28/11 16:49	SW846 8260B	MJH	11C5212
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0168	0.0802	1	03/24/11 23:02	SW846 8270D	KJP	11C5269
Acenaphthylene	ND		mg/kg dry	0.0239	0.0802	1	03/24/11 23:02	SW846 8270D	KJP	11C5269
Anthracene	ND		mg/kg dry	0.0108	0.0802	1	03/24/11 23:02	SW846 8270D	KJP	11C5269
Benzo (a) anthracene	ND		mg/kg dry	0.0132	0.0802	1	03/24/11 23:02	SW846 8270D	KJP	11C5269
Benzo (a) pyrene	ND		mg/kg dry	0.00958	0.0802	1	03/24/11 23:02	SW846 8270D	KJP	11C5269
Benzo (b) fluoranthene	ND		mg/kg dry	0.0455	0.0802	1	03/24/11 23:02	SW846 8270D	KJP	11C5269
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0108	0.0802	1	03/24/11 23:02	SW846 8270D	KJP	11C5269
Benzo (k) fluoranthene	ND		mg/kg dry	0.0443	0.0802	1	03/24/11 23:02	SW846 8270D	KJP	11C5269
Chrysene	ND		mg/kg dry	0.0371	0.0802	1	03/24/11 23:02	SW846 8270D	KJP	11C5269
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0180	0.0802	1	03/24/11 23:02	SW846 8270D	KJP	11C5269
Fluoranthene	0.0487	J	mg/kg dry	0.0132	0.0802	1	03/24/11 23:02	SW846 8270D	KJP	11C5269
Fluorene	ND		mg/kg dry	0.0239	0.0802	1	03/24/11 23:02	SW846 8270D	KJP	11C5269
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0371	0.0802	1	03/24/11 23:02	SW846 8270D	KJP	11C5269
Naphthalene	ND		mg/kg dry	0.0168	0.0802	1	03/24/11 23:02	SW846 8270D	KJP	11C5269
Phenanthrene	0.0714	J	mg/kg dry	0.0120	0.0802	1	03/24/11 23:02	SW846 8270D	KJP	11C5269
Pyrene	0.0423	J	mg/kg dry	0.0275	0.0802	1	03/24/11 23:02	SW846 8270D	KJP	11C5269
1-Methylnaphthalene	0.0862		mg/kg dry	0.0144	0.0802	1	03/24/11 23:02	SW846 8270D	KJP	11C5269
2-Methylnaphthalene	0.146		mg/kg dry	0.0251	0.0802	1	03/24/11 23:02	SW846 8270D	KJP	11C5269
Surr: Terphenyl-d14 (18-120%)	72 %					1	03/24/11 23:02	SW846 8270D	KJP	11C5269
Surr: 2-Fluorobiphenyl (14-120%)	57 %					1	03/24/11 23:02	SW846 8270D	KJP	11C5269
Surr: Nitrobenzene-d5 (17-120%)	64 %					1	03/24/11 23:02	SW846 8270D	KJP	11C5269

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

Work Order: NUC3441
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 03/19/11 08:15

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUC3441-04 (1142 Iris - Soil) Sampled: 03/15/11 16:00										
General Chemistry Parameters										
% Dry Solids	79.9		%	0.500	0.500	1	03/30/11 14:37	SW-846	AMS	11C7014
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00160	0.00291	1	03/28/11 15:16	SW846 8260B	MJH	11C5212
Ethylbenzene	0.202		mg/kg dry	0.00143	0.00291	1	03/28/11 15:16	SW846 8260B	MJH	11C5212
Naphthalene	0.216	B1	mg/kg dry	0.00247	0.00728	1	03/28/11 15:16	SW846 8260B	MJH	11C5212
Toluene	0.00163	J	mg/kg dry	0.00130	0.00291	1	03/28/11 15:16	SW846 8260B	MJH	11C5212
Xylenes, total	0.0757		mg/kg dry	0.00277	0.00728	1	03/28/11 15:16	SW846 8260B	MJH	11C5212
Surr: 1,2-Dichloroethane-d4 (67-138%)	90 %					1	03/28/11 15:16	SW846 8260B	MJH	11C5212
Surr: Dibromofluoromethane (75-125%)	90 %					1	03/28/11 15:16	SW846 8260B	MJH	11C5212
Surr: Toluene-d8 (76-129%)	121 %					1	03/28/11 15:16	SW846 8260B	MJH	11C5212
Surr: 4-Bromofluorobenzene (67-147%)	421 %	ZX				1	03/28/11 15:16	SW846 8260B	MJH	11C5212
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	0.906		mg/kg dry	0.0173	0.0827	1	03/24/11 23:24	SW846 8270D	KJP	11C5269
Acenaphthylene	ND		mg/kg dry	0.0247	0.0827	1	03/24/11 23:24	SW846 8270D	KJP	11C5269
Anthracene	0.488		mg/kg dry	0.0111	0.0827	1	03/24/11 23:24	SW846 8270D	KJP	11C5269
Benzo (a) anthracene	ND		mg/kg dry	0.0136	0.0827	1	03/24/11 23:24	SW846 8270D	KJP	11C5269
Benzo (a) pyrene	ND		mg/kg dry	0.00987	0.0827	1	03/24/11 23:24	SW846 8270D	KJP	11C5269
Benzo (b) fluoranthene	ND		mg/kg dry	0.0469	0.0827	1	03/24/11 23:24	SW846 8270D	KJP	11C5269
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0111	0.0827	1	03/24/11 23:24	SW846 8270D	KJP	11C5269
Benzo (k) fluoranthene	ND		mg/kg dry	0.0457	0.0827	1	03/24/11 23:24	SW846 8270D	KJP	11C5269
Chrysene	0.0601	J	mg/kg dry	0.0383	0.0827	1	03/24/11 23:24	SW846 8270D	KJP	11C5269
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0185	0.0827	1	03/24/11 23:24	SW846 8270D	KJP	11C5269
Fluoranthene	0.159		mg/kg dry	0.0136	0.0827	1	03/24/11 23:24	SW846 8270D	KJP	11C5269
Fluorene	2.06		mg/kg dry	0.0247	0.0827	1	03/24/11 23:24	SW846 8270D	KJP	11C5269
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0383	0.0827	1	03/24/11 23:24	SW846 8270D	KJP	11C5269
Naphthalene	1.38		mg/kg dry	0.0173	0.0827	1	03/24/11 23:24	SW846 8270D	KJP	11C5269
Phenanthrene	6.35		mg/kg dry	0.123	0.827	10	03/26/11 01:22	SW846 8270D	KJP	11C5269
Pyrene	0.449		mg/kg dry	0.0284	0.0827	1	03/24/11 23:24	SW846 8270D	KJP	11C5269
1-Methylnaphthalene	12.0		mg/kg dry	0.148	0.827	10	03/26/11 01:22	SW846 8270D	KJP	11C5269
2-Methylnaphthalene	19.2		mg/kg dry	0.259	0.827	10	03/26/11 01:22	SW846 8270D	KJP	11C5269
Surr: Terphenyl-d14 (18-120%)	92 %					1	03/24/11 23:24	SW846 8270D	KJP	11C5269
Surr: 2-Fluorobiphenyl (14-120%)	70 %					1	03/24/11 23:24	SW846 8270D	KJP	11C5269
Surr: Nitrobenzene-d5 (17-120%)	74 %					1	03/24/11 23:24	SW846 8270D	KJP	11C5269

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

Work Order: NUC3441
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 03/19/11 08:15

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUC3441-05 (1124 Iris - Soil) Sampled: 03/16/11 16:00										
General Chemistry Parameters										
% Dry Solids	82.8		%	0.500	0.500	1	03/30/11 14:37	SW-846	AMS	11C7014
Volatile Organic Compounds by EPA Method 8260B										
Benzene	0.0396		mg/kg dry	0.00107	0.00194	1	03/28/11 15:47	SW846 8260B	MJH	11C5212
Ethylbenzene	5.44		mg/kg dry	0.0497	0.101	50	03/28/11 18:53	SW846 8260B	MJH	11C5212
Naphthalene	33.8	B1	mg/kg dry	1.73	5.07	1000	03/28/11 19:24	SW846 8260B	MJH	11C5212
Toluene	ND		mg/kg dry	0.0452	0.101	50	03/28/11 18:53	SW846 8260B	MJH	11C5212
Xylenes, total	6.04		mg/kg dry	0.0964	0.254	50	03/28/11 18:53	SW846 8260B	MJH	11C5212
Surr: 1,2-Dichloroethane-d4 (67-138%)	97 %					1	03/28/11 15:47	SW846 8260B	MJH	11C5212
Surr: 1,2-Dichloroethane-d4 (67-138%)	82 %					50	03/28/11 18:53	SW846 8260B	MJH	11C5212
Surr: 1,2-Dichloroethane-d4 (67-138%)	93 %					1000	03/28/11 19:24	SW846 8260B	MJH	11C5212
Surr: Dibromofluoromethane (75-125%)	97 %					1	03/28/11 15:47	SW846 8260B	MJH	11C5212
Surr: Dibromofluoromethane (75-125%)	80 %					50	03/28/11 18:53	SW846 8260B	MJH	11C5212
Surr: Dibromofluoromethane (75-125%)	92 %					1000	03/28/11 19:24	SW846 8260B	MJH	11C5212
Surr: Toluene-d8 (76-129%)	552 %	ZX				1	03/28/11 15:47	SW846 8260B	MJH	11C5212
Surr: Toluene-d8 (76-129%)	113 %					50	03/28/11 18:53	SW846 8260B	MJH	11C5212
Surr: Toluene-d8 (76-129%)	104 %					1000	03/28/11 19:24	SW846 8260B	MJH	11C5212
Surr: 4-Bromofluorobenzene (67-147%)	267 %	ZX				1	03/28/11 15:47	SW846 8260B	MJH	11C5212
Surr: 4-Bromofluorobenzene (67-147%)	133 %					50	03/28/11 18:53	SW846 8260B	MJH	11C5212
Surr: 4-Bromofluorobenzene (67-147%)	89 %					1000	03/28/11 19:24	SW846 8260B	MJH	11C5212
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	1.50		mg/kg dry	0.0166	0.0796	1	03/24/11 23:46	SW846 8270D	KJP	11C5269
Acenaphthylene	ND		mg/kg dry	0.0238	0.0796	1	03/24/11 23:46	SW846 8270D	KJP	11C5269
Anthracene	0.771		mg/kg dry	0.0107	0.0796	1	03/24/11 23:46	SW846 8270D	KJP	11C5269
Benzo (a) anthracene	ND		mg/kg dry	0.0131	0.0796	1	03/24/11 23:46	SW846 8270D	KJP	11C5269
Benzo (a) pyrene	ND		mg/kg dry	0.00951	0.0796	1	03/24/11 23:46	SW846 8270D	KJP	11C5269
Benzo (b) fluoranthene	ND		mg/kg dry	0.0452	0.0796	1	03/24/11 23:46	SW846 8270D	KJP	11C5269
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0107	0.0796	1	03/24/11 23:46	SW846 8270D	KJP	11C5269
Benzo (k) fluoranthene	ND		mg/kg dry	0.0440	0.0796	1	03/24/11 23:46	SW846 8270D	KJP	11C5269
Chrysene	0.0860		mg/kg dry	0.0368	0.0796	1	03/24/11 23:46	SW846 8270D	KJP	11C5269
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0178	0.0796	1	03/24/11 23:46	SW846 8270D	KJP	11C5269
Fluoranthene	0.219		mg/kg dry	0.0131	0.0796	1	03/24/11 23:46	SW846 8270D	KJP	11C5269
Fluorene	3.21		mg/kg dry	0.0238	0.0796	1	03/24/11 23:46	SW846 8270D	KJP	11C5269
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0368	0.0796	1	03/24/11 23:46	SW846 8270D	KJP	11C5269
Naphthalene	12.1		mg/kg dry	0.166	0.796	10	03/26/11 01:44	SW846 8270D	KJP	11C5269
Phenanthrene	10.8		mg/kg dry	0.119	0.796	10	03/26/11 01:44	SW846 8270D	KJP	11C5269
Pyrene	0.618		mg/kg dry	0.0273	0.0796	1	03/24/11 23:46	SW846 8270D	KJP	11C5269
1-Methylnaphthalene	30.5		mg/kg dry	0.143	0.796	10	03/26/11 01:44	SW846 8270D	KJP	11C5269
2-Methylnaphthalene	44.4		mg/kg dry	0.499	1.59	20	03/26/11 02:07	SW846 8270D	KJP	11C5269
Surr: Terphenyl-d14 (18-120%)	93 %					1	03/24/11 23:46	SW846 8270D	KJP	11C5269

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

Work Order: NUC3441
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 03/19/11 08:15

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUC3441-05 (1124 Iris - Soil) - cont. Sampled: 03/16/11 16:00										
Polyaromatic Hydrocarbons by EPA 8270D - cont.										
<i>Surr: 2-Fluorobiphenyl (14-120%)</i>	76 %					1	03/24/11 23:46	SW846 8270D	KJP	11C5269
<i>Surr: Nitrobenzene-d5 (17-120%)</i>	79 %					1	03/24/11 23:46	SW846 8270D	KJP	11C5269

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

Work Order: NUC3441
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 03/19/11 08:15

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extract Vol	Date	Analyst	Extraction Method
Polyaromatic Hydrocarbons by EPA 8270D							
SW846 8270D	11C5269	NUC3441-01	30.14	1.00	03/24/11 09:30	SAS	EPA 3550C
SW846 8270D	11C5269	NUC3441-01RE1	30.14	1.00	03/24/11 09:30	SAS	EPA 3550C
SW846 8270D	11C5269	NUC3441-01RE2	30.14	1.00	03/24/11 09:30	SAS	EPA 3550C
SW846 8270D	11C5269	NUC3441-02	30.13	1.00	03/24/11 09:30	SAS	EPA 3550C
SW846 8270D	11C5269	NUC3441-02RE1	30.13	1.00	03/24/11 09:30	SAS	EPA 3550C
SW846 8270D	11C5269	NUC3441-02RE2	30.13	1.00	03/24/11 09:30	SAS	EPA 3550C
SW846 8270D	11C5269	NUC3441-03	30.64	1.00	03/24/11 09:30	SAS	EPA 3550C
SW846 8270D	11C5269	NUC3441-04	30.43	1.00	03/24/11 09:30	SAS	EPA 3550C
SW846 8270D	11C5269	NUC3441-04RE1	30.43	1.00	03/24/11 09:30	SAS	EPA 3550C
SW846 8270D	11C5269	NUC3441-05	30.48	1.00	03/24/11 09:30	SAS	EPA 3550C
SW846 8270D	11C5269	NUC3441-05RE1	30.48	1.00	03/24/11 09:30	SAS	EPA 3550C
SW846 8270D	11C5269	NUC3441-05RE2	30.48	1.00	03/24/11 09:30	SAS	EPA 3550C
Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	11C5212	NUC3441-01	5.45	5.00	03/14/11 11:45	TSP	EPA 5035
SW846 8260B	11C5212	NUC3441-01RE1	4.27	5.00	03/14/11 11:45	TSP	EPA 5035
SW846 8260B	11C5212	NUC3441-01RE2	4.27	5.00	03/14/11 11:45	TSP	EPA 5035
SW846 8260B	11C5212	NUC3441-02	5.72	5.00	03/14/11 16:30	TSP	EPA 5035
SW846 8260B	11C5212	NUC3441-02RE1	5.18	5.00	03/14/11 16:30	TSP	EPA 5035
SW846 8260B	11C5212	NUC3441-02RE2	5.73	5.00	03/14/11 16:30	TSP	EPA 5035
SW846 8260B	11C5212	NUC3441-02RE3	5.18	5.00	03/14/11 16:30	TSP	EPA 5035
SW846 8260B	11C5212	NUC3441-03	5.95	5.00	03/15/11 11:00	TSP	EPA 5035
SW846 8260B	11C5212	NUC3441-03RE1	3.47	5.00	03/15/11 11:00	TSP	EPA 5035
SW846 8260B	11C5212	NUC3441-04	4.30	5.00	03/15/11 16:00	TSP	EPA 5035
SW846 8260B	11C5212	NUC3441-05	6.22	5.00	03/16/11 16:00	TSP	EPA 5035
SW846 8260B	11C5212	NUC3441-05RE1	5.95	5.00	03/16/11 16:00	TSP	EPA 5035
SW846 8260B	11C5212	NUC3441-05RE2	5.95	5.00	03/16/11 16:00	TSP	EPA 5035

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

Work Order: NUC3441
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 03/19/11 08:15

PROJECT QUALITY CONTROL DATA

Blank

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

11C5212-BLK1

Benzene	<0.00110		mg/kg wet	11C5212	11C5212-BLK1	03/28/11 12:41
Ethylbenzene	<0.000980		mg/kg wet	11C5212	11C5212-BLK1	03/28/11 12:41
Naphthalene	0.00217	J	mg/kg wet	11C5212	11C5212-BLK1	03/28/11 12:41
Toluene	<0.000890		mg/kg wet	11C5212	11C5212-BLK1	03/28/11 12:41
Xylenes, total	<0.00190		mg/kg wet	11C5212	11C5212-BLK1	03/28/11 12:41
Surrogate: 1,2-Dichloroethane-d4	106%			11C5212	11C5212-BLK1	03/28/11 12:41
Surrogate: Dibromofluoromethane	106%			11C5212	11C5212-BLK1	03/28/11 12:41
Surrogate: Toluene-d8	101%			11C5212	11C5212-BLK1	03/28/11 12:41
Surrogate: 4-Bromofluorobenzene	118%			11C5212	11C5212-BLK1	03/28/11 12:41

11C5212-BLK2

Benzene	<0.0550		mg/kg wet	11C5212	11C5212-BLK2	03/28/11 13:12
Ethylbenzene	<0.0490		mg/kg wet	11C5212	11C5212-BLK2	03/28/11 13:12
Naphthalene	0.110	J	mg/kg wet	11C5212	11C5212-BLK2	03/28/11 13:12
Toluene	<0.0445		mg/kg wet	11C5212	11C5212-BLK2	03/28/11 13:12
Xylenes, total	<0.0950		mg/kg wet	11C5212	11C5212-BLK2	03/28/11 13:12
Surrogate: 1,2-Dichloroethane-d4	98%			11C5212	11C5212-BLK2	03/28/11 13:12
Surrogate: Dibromofluoromethane	94%			11C5212	11C5212-BLK2	03/28/11 13:12
Surrogate: Toluene-d8	103%			11C5212	11C5212-BLK2	03/28/11 13:12
Surrogate: 4-Bromofluorobenzene	119%			11C5212	11C5212-BLK2	03/28/11 13:12

Polyaromatic Hydrocarbons by EPA 8270D

11C5269-BLK1

Acenaphthene	<0.0140		mg/kg wet	11C5269	11C5269-BLK1	03/24/11 17:53
Acenaphthylene	<0.0200		mg/kg wet	11C5269	11C5269-BLK1	03/24/11 17:53
Anthracene	<0.00900		mg/kg wet	11C5269	11C5269-BLK1	03/24/11 17:53
Benzo (a) anthracene	<0.0110		mg/kg wet	11C5269	11C5269-BLK1	03/24/11 17:53
Benzo (a) pyrene	<0.00800		mg/kg wet	11C5269	11C5269-BLK1	03/24/11 17:53
Benzo (b) fluoranthene	<0.0380		mg/kg wet	11C5269	11C5269-BLK1	03/24/11 17:53
Benzo (g,h,i) perylene	<0.00900		mg/kg wet	11C5269	11C5269-BLK1	03/24/11 17:53
Benzo (k) fluoranthene	<0.0370		mg/kg wet	11C5269	11C5269-BLK1	03/24/11 17:53
Chrysene	<0.0310		mg/kg wet	11C5269	11C5269-BLK1	03/24/11 17:53
Dibenz (a,h) anthracene	<0.0150		mg/kg wet	11C5269	11C5269-BLK1	03/24/11 17:53
Fluoranthene	<0.0110		mg/kg wet	11C5269	11C5269-BLK1	03/24/11 17:53
Fluorene	<0.0200		mg/kg wet	11C5269	11C5269-BLK1	03/24/11 17:53
Indeno (1,2,3-cd) pyrene	<0.0310		mg/kg wet	11C5269	11C5269-BLK1	03/24/11 17:53
Naphthalene	<0.0140		mg/kg wet	11C5269	11C5269-BLK1	03/24/11 17:53
Phenanthrene	<0.0100		mg/kg wet	11C5269	11C5269-BLK1	03/24/11 17:53
Pyrene	<0.0230		mg/kg wet	11C5269	11C5269-BLK1	03/24/11 17:53
1-Methylnaphthalene	<0.0120		mg/kg wet	11C5269	11C5269-BLK1	03/24/11 17:53
2-Methylnaphthalene	<0.0210		mg/kg wet	11C5269	11C5269-BLK1	03/24/11 17:53

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

Work Order: NUC3441
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 03/19/11 08:15

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D						
11C5269-BLK1						
<i>Surrogate: Terphenyl-d14</i>	80%			11C5269	11C5269-BLK1	03/24/11 17:53
<i>Surrogate: 2-Fluorobiphenyl</i>	79%			11C5269	11C5269-BLK1	03/24/11 17:53
<i>Surrogate: Nitrobenzene-d5</i>	75%			11C5269	11C5269-BLK1	03/24/11 17:53

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

Work Order: NUC3441
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 03/19/11 08:15

PROJECT QUALITY CONTROL DATA

Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
General Chemistry Parameters										
11C7014-DUP1										
% Dry Solids	97.8	97.7		%	0.1	20	11C7014	NUC3440-08		03/30/11 14:37

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

Work Order: NUC3441
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 03/19/11 08:15

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								
11C5212-BS1								
Benzene	50.0	50.8		ug/kg	102%	78 - 126	11C5212	03/28/11 11:39
Ethylbenzene	50.0	60.2		ug/kg	120%	79 - 130	11C5212	03/28/11 11:39
Naphthalene	50.0	62.2		ug/kg	124%	72 - 150	11C5212	03/28/11 11:39
Toluene	50.0	57.5		ug/kg	115%	76 - 126	11C5212	03/28/11 11:39
Xylenes, total	150	177		ug/kg	118%	80 - 130	11C5212	03/28/11 11:39
Surrogate: 1,2-Dichloroethane-d4	50.0	46.9			94%	67 - 138	11C5212	03/28/11 11:39
Surrogate: Dibromofluoromethane	50.0	46.2			92%	75 - 125	11C5212	03/28/11 11:39
Surrogate: Toluene-d8	50.0	51.4			103%	76 - 129	11C5212	03/28/11 11:39
Surrogate: 4-Bromofluorobenzene	50.0	57.3			115%	67 - 147	11C5212	03/28/11 11:39

Polyaromatic Hydrocarbons by EPA 8270D

11C5269-BS1

Acenaphthene	1.67	1.39	MNR	mg/kg wet	83%	49 - 120	11C5269	03/24/11 18:15
Acenaphthylene	1.67	1.41	MNR	mg/kg wet	84%	52 - 120	11C5269	03/24/11 18:15
Anthracene	1.67	1.60	MNR	mg/kg wet	96%	58 - 120	11C5269	03/24/11 18:15
Benzo (a) anthracene	1.67	1.54	MNR	mg/kg wet	92%	57 - 120	11C5269	03/24/11 18:15
Benzo (a) pyrene	1.67	1.53	MNR	mg/kg wet	92%	55 - 120	11C5269	03/24/11 18:15
Benzo (b) fluoranthene	1.67	1.44	MNR	mg/kg wet	86%	51 - 123	11C5269	03/24/11 18:15
Benzo (g,h,i) perylene	1.67	1.53	MNR	mg/kg wet	92%	49 - 121	11C5269	03/24/11 18:15
Benzo (k) fluoranthene	1.67	1.63	MNR	mg/kg wet	98%	42 - 129	11C5269	03/24/11 18:15
Chrysene	1.67	1.50	MNR	mg/kg wet	90%	55 - 120	11C5269	03/24/11 18:15
Dibenz (a,h) anthracene	1.67	1.54	MNR	mg/kg wet	92%	50 - 123	11C5269	03/24/11 18:15
Fluoranthene	1.67	1.55	MNR	mg/kg wet	93%	58 - 120	11C5269	03/24/11 18:15
Fluorene	1.67	1.49	MNR	mg/kg wet	90%	54 - 120	11C5269	03/24/11 18:15
Indeno (1,2,3-cd) pyrene	1.67	1.54	MNR	mg/kg wet	92%	50 - 122	11C5269	03/24/11 18:15
Naphthalene	1.67	1.25	MNR	mg/kg wet	75%	28 - 120	11C5269	03/24/11 18:15
Phenanthrene	1.67	1.57	MNR	mg/kg wet	94%	56 - 120	11C5269	03/24/11 18:15
Pyrene	1.67	1.56	MNR	mg/kg wet	93%	56 - 120	11C5269	03/24/11 18:15
1-Methylnaphthalene	1.67	1.14	MNR	mg/kg wet	69%	36 - 120	11C5269	03/24/11 18:15
2-Methylnaphthalene	1.67	1.26	MNR	mg/kg wet	75%	36 - 120	11C5269	03/24/11 18:15
Surrogate: Terphenyl-d14	1.67	1.34			81%	18 - 120	11C5269	03/24/11 18:15
Surrogate: 2-Fluorobiphenyl	1.67	1.26			76%	14 - 120	11C5269	03/24/11 18:15
Surrogate: Nitrobenzene-d5	1.67	1.08			65%	17 - 120	11C5269	03/24/11 18:15

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

Work Order: NUC3441
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 03/19/11 08:15

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										
11C5212-MS1										
Benzene	ND	54.5		ug/kg	50.0	109%	42 - 141	11C5212	NUC3441-02R E1	03/28/11 21:28
Ethylbenzene	31.5	61.1		ug/kg	50.0	59%	21 - 165	11C5212	NUC3441-02R E1	03/28/11 21:28
Naphthalene	360	63.8	M8	ug/kg	50.0	-591%	10 - 160	11C5212	NUC3441-02R E1	03/28/11 21:28
Toluene	13.5	56.7		ug/kg	50.0	86%	45 - 145	11C5212	NUC3441-02R E1	03/28/11 21:28
Xylenes, total	104	178		ug/kg	150	49%	31 - 159	11C5212	NUC3441-02R E1	03/28/11 21:28
Surrogate: 1,2-Dichloroethane-d4		48.7		ug/kg	50.0	97%	67 - 138	11C5212	NUC3441-02R E1	03/28/11 21:28
Surrogate: Dibromofluoromethane		48.8		ug/kg	50.0	98%	75 - 125	11C5212	NUC3441-02R E1	03/28/11 21:28
Surrogate: Toluene-d8		51.6		ug/kg	50.0	103%	76 - 129	11C5212	NUC3441-02R E1	03/28/11 21:28
Surrogate: 4-Bromofluorobenzene		58.0		ug/kg	50.0	116%	67 - 147	11C5212	NUC3441-02R E1	03/28/11 21:28

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

Work Order: NUC3441
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 03/19/11 08:15

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												
11C5212-MSD1												
Benzene	ND	46.1		ug/kg	50.0	92%	42 - 141	17	50	11C5212	NUC3441-02R E1	03/28/11 21:59
Ethylbenzene	31.5	62.8		ug/kg	50.0	63%	21 - 165	3	50	11C5212	NUC3441-02R E1	03/28/11 21:59
Naphthalene	360	64.6	M8	ug/kg	50.0	-590%	10 - 160	1	50	11C5212	NUC3441-02R E1	03/28/11 21:59
Toluene	13.5	58.7		ug/kg	50.0	90%	45 - 145	3	50	11C5212	NUC3441-02R E1	03/28/11 21:59
Xylenes, total	104	184		ug/kg	150	53%	31 - 159	3	50	11C5212	NUC3441-02R E1	03/28/11 21:59
Surrogate: 1,2-Dichloroethane-d4		39.6		ug/kg	50.0	79%	67 - 138			11C5212	NUC3441-02R E1	03/28/11 21:59
Surrogate: Dibromofluoromethane		40.6		ug/kg	50.0	81%	75 - 125			11C5212	NUC3441-02R E1	03/28/11 21:59
Surrogate: Toluene-d8		51.8		ug/kg	50.0	104%	76 - 129			11C5212	NUC3441-02R E1	03/28/11 21:59
Surrogate: 4-Bromofluorobenzene		58.1		ug/kg	50.0	116%	67 - 147			11C5212	NUC3441-02R E1	03/28/11 21:59

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

Work Order: NUC3441
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 03/19/11 08:15

CERTIFICATION SUMMARY

TestAmerica Nashville

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

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

Work Order: NUC3441
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 03/19/11 08:15

DATA QUALIFIERS AND DEFINITIONS

B1 Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.

E Concentration exceeds the calibration range and therefore result is semi-quantitative.

J Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.

M8 The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).

MNR No results were reported for the MS/MSD. The sample used for the MS/MSD required dilution due to the sample matrix. Because of this, the spike compounds were diluted below the detection limit.

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

NUC3441

04/04/11 23:59

TestAmerica

**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?

Client Name/Account #: EEG # 2449

Address: 10179 Highway 78

City/State/Zip: Ladson, SC 29456

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

Telephone Number: 843.412.2097

Fax No.: (843) 879-0401

Sampler Name: (Print) JAMES Baldwin

Sampler Signature: James Baldwin

Site State: SC

PO#: 1027

TA Quote #:

Project ID: Laurel Bay Housing Project

Project #:[illegible]

ATTACHMENT A



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		Generator's Site Address (If different than mailing):		A. Manifest Number WMNA		00316808				
4. Generator's Phone 843-228-6461				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				
11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments				
		No.	Type							
		a. HEATING OIL TANKS FILLED WITH SAND								
		WM Profile # 102655SC								
		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 Houses 2) 394 ACORN-21 4) 1034 Foxglove ✓ 6) 1146 Iris ✓ D224 Cypress 3) 398 ACORN ✓ 5) 1081 Heather ✓										
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 Charles Herron		Signature "On behalf of" Charles H. Herron				Month 5	Day 11	Year 11		
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name James Baldwin				Signature James Baldwin		Month 5	Day 12	Year 11
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name				Signature		Month	Day	Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.										
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.		Printed Name Toni Cofield				Signature Toni Cofield		Month 5	Day 12	Year 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

ANALYTICAL RESULTS

Project: LAUREL BAY SAMPLING 7/28/08

Pace Project No.: 9224472

Sample: 1137 IRIS D		Lab ID: 9224472011	Collected: 07/28/08 18:30	Received: 07/30/08 17:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM SPE 3510		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510						
Nitrobenzene-d5 (S)	74 %		50-150	1	07/31/08 00:00	08/12/08 10:11	4165-60-0	
2-Fluorobiphenyl (S)	73 %		50-150	1	07/31/08 00:00	08/12/08 10:11	321-60-8	
Terphenyl-d14 (S)	74 %		50-150	1	07/31/08 00:00	08/12/08 10:11	1718-51-0	
8260 MSV Low Level		Analytical Method: EPA 8260						
Benzene	ND ug/L		1.0	1		08/01/08 21:43	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		08/01/08 21:43	100-41-4	
Naphthalene	ND ug/L		1.0	1		08/01/08 21:43	91-20-3	
Toluene	ND ug/L		1.0	1		08/01/08 21:43	108-88-3	
m&p-Xylene	ND ug/L		2.0	1		08/01/08 21:43	1330-20-7	
o-Xylene	ND ug/L		1.0	1		08/01/08 21:43	95-47-6	
4-Bromofluorobenzene (S)	97 %		87-109	1		08/01/08 21:43	460-00-4	
Dibromofluoromethane (S)	98 %		85-115	1		08/01/08 21:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	101 %		79-120	1		08/01/08 21:43	17060-07-0	
Toluene-d8 (S)	99 %		70-120	1		08/01/08 21:43	2037-26-5	

Sample: 1146 IRIS A		Lab ID: 9224472012	Collected: 07/28/08 18:50	Received: 07/30/08 17:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM SPE 3510		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		4.0	1	07/31/08 00:00	08/12/08 10:34	83-32-9	
Acenaphthylene	ND ug/L		3.0	1	07/31/08 00:00	08/12/08 10:34	208-96-8	
Anthracene	ND ug/L		0.10	1	07/31/08 00:00	08/12/08 10:34	120-12-7	
Benzo(a)anthracene	ND ug/L		0.20	1	07/31/08 00:00	08/12/08 10:34	56-55-3	
Benzo(a)pyrene	ND ug/L		0.40	1	07/31/08 00:00	08/12/08 10:34	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.60	1	07/31/08 00:00	08/12/08 10:34	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		0.40	1	07/31/08 00:00	08/12/08 10:34	191-24-2	
Benzo(k)fluoranthene	ND ug/L		0.40	1	07/31/08 00:00	08/12/08 10:34	207-08-9	
Chrysene	ND ug/L		0.20	1	07/31/08 00:00	08/12/08 10:34	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.40	1	07/31/08 00:00	08/12/08 10:34	53-70-3	
Fluoranthene	ND ug/L		0.60	1	07/31/08 00:00	08/12/08 10:34	206-44-0	
Fluorene	1.1 ug/L		0.62	1	07/31/08 00:00	08/12/08 10:34	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.40	1	07/31/08 00:00	08/12/08 10:34	193-39-5	
1-Methylnaphthalene	6.6 ug/L		4.0	1	07/31/08 00:00	08/12/08 10:34	90-12-0	
2-Methylnaphthalene	8.3 ug/L		4.0	1	07/31/08 00:00	08/12/08 10:34	91-57-6	
Naphthalene	ND ug/L		3.0	1	07/31/08 00:00	08/12/08 10:34	91-20-3	
Phenanthrene	1.3 ug/L		0.40	1	07/31/08 00:00	08/12/08 10:34	85-01-8	
Pyrene	ND ug/L		0.20	1	07/31/08 00:00	08/12/08 10:34	129-00-0	
Nitrobenzene-d5 (S)	59 %		50-150	1	07/31/08 00:00	08/12/08 10:34	4165-60-0	
2-Fluorobiphenyl (S)	56 %		50-150	1	07/31/08 00:00	08/12/08 10:34	321-60-8	
Terphenyl-d14 (S)	60 %		50-150	1	07/31/08 00:00	08/12/08 10:34	1718-51-0	
8260 MSV Low Level		Analytical Method: EPA 8260						
Benzene	ND ug/L		1.0	1		08/01/08 22:06	71-43-2	

Date: 08/13/2008 05:36 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LAUREL BAY SAMPLING 7/28/08

Pace Project No.: 9224472

Sample: 1146 IRIS A		Lab ID: 9224472012	Collected: 07/28/08 18:50		Received: 07/30/08 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Ethylbenzene	ND	ug/L	1.0	1		08/01/08 22:06	100-41-4	
Naphthalene	3.9	ug/L	1.0	1		08/01/08 22:06	91-20-3	
Toluene	ND	ug/L	1.0	1		08/01/08 22:06	108-88-3	
m&p-Xylene	ND	ug/L	2.0	1		08/01/08 22:06	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		08/01/08 22:06	95-47-6	
4-Bromofluorobenzene (S)	97 %		87-109	1		08/01/08 22:06	460-00-4	
Dibromofluoromethane (S)	96 %		85-115	1		08/01/08 22:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	99 %		79-120	1		08/01/08 22:06	17060-07-0	
Toluene-d8 (S)	99 %		70-120	1		08/01/08 22:06	2037-26-5	

Sample: 1131 IRIS A		Lab ID: 9224472013	Collected: 07/28/08 18:00		Received: 07/30/08 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM SPE 3510		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	2.0	1	07/31/08 00:00	08/12/08 10:57	83-32-9	
Acenaphthylene	ND	ug/L	1.5	1	07/31/08 00:00	08/12/08 10:57	208-96-8	
Anthracene	0.074	ug/L	0.050	1	07/31/08 00:00	08/12/08 10:57	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/31/08 00:00	08/12/08 10:57	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.20	1	07/31/08 00:00	08/12/08 10:57	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.30	1	07/31/08 00:00	08/12/08 10:57	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	07/31/08 00:00	08/12/08 10:57	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.20	1	07/31/08 00:00	08/12/08 10:57	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/31/08 00:00	08/12/08 10:57	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.20	1	07/31/08 00:00	08/12/08 10:57	53-70-3	
Fluoranthene	ND	ug/L	0.30	1	07/31/08 00:00	08/12/08 10:57	206-44-0	
Fluorene	ND	ug/L	0.31	1	07/31/08 00:00	08/12/08 10:57	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.20	1	07/31/08 00:00	08/12/08 10:57	193-39-5	
1-Methylnaphthalene	ND	ug/L	2.0	1	07/31/08 00:00	08/12/08 10:57	90-12-0	
2-Methylnaphthalene	ND	ug/L	2.0	1	07/31/08 00:00	08/12/08 10:57	91-57-6	
Naphthalene	ND	ug/L	1.5	1	07/31/08 00:00	08/12/08 10:57	91-20-3	
Phenanthrene	ND	ug/L	0.20	1	07/31/08 00:00	08/12/08 10:57	85-01-8	
Pyrene	ND	ug/L	0.10	1	07/31/08 00:00	08/12/08 10:57	129-00-0	
Nitrobenzene-d5 (S)	56 %		50-150	1	07/31/08 00:00	08/12/08 10:57	4165-60-0	
2-Fluorobiphenyl (S)	63 %		50-150	1	07/31/08 00:00	08/12/08 10:57	321-60-8	
Terphenyl-d14 (S)	63 %		50-150	1	07/31/08 00:00	08/12/08 10:57	1718-51-0	

8260 MSV Low Level		Analytical Method: EPA 8260						
Benzene	ND	ug/L	1.0	1		08/01/08 22:30	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/01/08 22:30	100-41-4	
Naphthalene	ND	ug/L	1.0	1		08/01/08 22:30	91-20-3	
Toluene	ND	ug/L	1.0	1		08/01/08 22:30	108-88-3	
m&p-Xylene	ND	ug/L	2.0	1		08/01/08 22:30	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		08/01/08 22:30	95-47-6	
4-Bromofluorobenzene (S)	97 %		87-109	1		08/01/08 22:30	460-00-4	

Date: 08/13/2008 05:36 PM

REPORT OF LABORATORY ANALYSIS

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Appendix D

Regulatory Correspondence

BOARD:
Elizabeth M. Hagood
Chairman
Mark B. Kent
Vice Chairman
Howard L. Brilliant, MD
Secretary



C. Earl Hunter, Commissioner
Promoting and protecting the health of the public and the environment.

BOARD:
Carl L. Brazell
Louisiana W. Wright
L. Michael Blackmon
Coleman F. Buckhouse, MD

16 July 2008

Beaufort Military Complex Family Housing
ATTN: Kyle Broadfoot
1510 Laurel Bay Blvd.
Beaufort, SC 29906

Re: MCAS – Laurel Bay Housing – 1146 Iris Lane
Site ID # 03947
UST Closure Reports received 31 January 2008
Beaufort County

Dear Mr. Broadfoot:

The purpose of this letter is to verify a release of fuel oil at the referenced residence. According to information received by the Department, the source of the release is from past onsite use of fuel oil USTs. To date, initial activities by the facility have included tank removal and soil sampling. Based on the information contained in the closure report, a potential violation of the South Carolina Pollution Control Act has occurred in that there has been an unauthorized release of petroleum to the environment.

Additional assessment activities are required for this site. Specifically the Department requests that a groundwater sample be collected from this site. Please note, the Department approved a groundwater sampling proposal for Laurel Bay submitted by MCAS under separate cover dated 16 June 2008.

Should you have any questions, please contact me at 803-898-3553 (office phone), 803-898-2893 (fax) or bishopma@dhec.sc.gov.

Sincerely,

Michael Bishop, Hydrogeologist
Groundwater Quality Section
Bureau of Water

cc: Region 8 District EQC (via pdf)
MCAS, Commanding Officer, Attention: S-4 NREAO (William Drawdy) (via pdf)
Technical File



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

July 1, 2015

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

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

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

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

If you have any questions, please contact me at kriegkm@dhec.sc.gov or 803-898-0255.

Sincerely,

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

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



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

Attachment to: Krieg to Drawdy
Subject: IGWA
Dated 7/1/2015

Laurel Bay Underground Storage Tank Assessment Reports for: (97 addresses/110 tanks)

118 Banyan	343 Ash Tank 2
126 Banyan	344 Ash Tank 2
127 Banyan	347 Ash Tank 2
130 Banyan Tank 1	378 Aspen Tank 2
141 Laurel Bay	379 Aspen
151 Laurel Bay	382 Aspen Tank 1
224 Cypress	382 Aspen Tank 2
227 Cypress	394 Acorn Tank 2
256 Beech Tank 2	400 Elderberry
257 Beech Tank 1	432 Elderberry
257 Beech Tank 2	436 Elderberry
264 Beech	473 Dogwood Tank 2
265 Beech Tank 2	482 Laurel Bay
265 Beech Tank 3	517 Laurel Bay
275 Birch	586 Aster
277 Birch Tank 1	632 Dahlia
285 Birch	639 Dahlia Tank 2
292 Birch Tank 3	643 Dahlia Tank 1
297 Birch	644 Dahlia Tank 1
301 Ash	644 Dahlia Tank 2
306 Ash	646 Dahlia Tank 1
310 Ash Tank 1	646 Dahlia Tank 2
313 Ash	665 Camellia
315 Ash Tank 2	699 Abelia
316 Ash	744 Blue Bell
319 Ash	745 Blue Bell Tank 1
320 Ash	747 Blue Bell Tank 1
321 Ash	747 Blue Bell Tank 2
329 Ash	747 Blue Bell Tank 3
330 Ash Tank 2	749 Blue Bell Tank 1
331 Ash	749 Blue Bell Tank 2
332 Ash	751 Blue Bell
333 Ash	762 Althea
335 Ash Tank 1	765 Althea Tank 2
335 Ash Tank 2	766 Althea Tank 4
341 Ash	767 Althea Tank 1
342 Ash Tank 1	768 Althea Tank 2
342 Ash Tank 2	768 Althea Tank 3

Laurel Bay Underground Storage Tank Assessment Reports for: (98 addresses/110 tanks) cont.

768 Althea Tank 4	1067 Gardenia
769 Althea Tank 1	1077 Heather
769 Althea Tank 2	1081 Heather
775 Althea	1101 Iris Tank 2
819 Azalea	1104 Iris
840 Azalea	1105 Iris Tank 2
878 Cobia	1124 Iris Tank 2
891 Cobia	1142 Iris Tank 2
913 Barracuda	1146 Iris Tank 2
916 Barracuda	1218 Cardinal
923 Albacore	1240 Dove
1004 Bobwhite	1266 Dove
1022 Foxglove	1292 Eagle
1031 Foxglove	1299 Eagle Tank 1
1034 Foxglove Tank 2	1302 Eagle
1061 Gardenia Tank 3	1336 Albatross
1064 Gardenia	1351 Cardinal



C. Earl Hunter, Commissioner

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

19 December 2008

Commanding Officer
ATTN: S-4 NREAO (Craig Ehde)
MCAS
PO Box 55001
Beaufort, SC 29904-5001

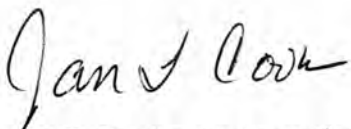
Re: MCAS – Laurel Bay Housing – 1146 Iris
Site ID # 03947
Groundwater Sampling Results received 6 November 2008
Beaufort County

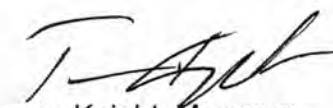
Dear Mr. Ehde:

Per the Department's request, a groundwater sample was collected from the referenced site. The groundwater results were reported as non-detect and/or below EPA PRG's. Based on the information and analytical data submitted, the Department recognizes that MCAS has adequately addressed the known environmental contamination identified on the property to date in accordance with the approved scope of work. Consequently, no further investigation is required at this time. Please note, this statement pertains only to the portion of the site addressed in the referenced report and does not apply to other areas of the site and/or any other potential regulatory violations. Further, the Department retains the right to request further investigation if deemed necessary.

Should you have any questions, please contact me at 803-896-4179 (office phone), 803-896-6245 (fax) or cookejt@dhec.sc.gov.

Sincerely,
AST Petroleum Restoration
& Site Environmental Investigations Section
Land Revitalization Division
Bureau of Land and Waste Management
SC Dept. of Health & Environmental Control


Jan T. Cooke, Hydrogeologist


B. Thomas Knight, Manager

cc: Region 8 District EQC
Tri-Command Communities; Attn: Mr. Robert Bible; 600 Laurel Bay Road Beaufort, SC
29906
Technical File



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

June 8, 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-November and December 2015
Laurel Bay Military Housing Area Multiple Properties
Dated April 2015

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received groundwater data in the above referenced Groundwater Investigation Report for the attached addresses on May 2, 2016. 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 15 stated addresses. For the remaining 80 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-November and December 2015

Specific Property Recommendations

Dated June 8, 2016

Draft Final Initial Groundwater Investigation Report for (95 addresses)

[illegible]

No Further Action recommendation (80 addresses)

118 Banyan Drive	644 Dahlia Drive
126 Banyan Drive	646 Dahlia Drive
127 Banyan Drive	665 Camellia Drive
141 Laurel Bay Blvd	699 Abelia Street
151 Laurel Bay Blvd	744 Blue Bell Lane
224 Cypress Street	745 Blue Bell Lane
227 Cypress Street	751 Blue Bell Lane
257 Beech Street	762 Althea Street
264 Beech Street	765 Althea Street
265 Beech Street	766 Althea Street
275 Birch Drive	767 Althea Street
277 Birch Drive	768 Althea Street
297 Birch Drive	769 Althea Street
301 Ash Street	819 Azalea Drive
306 Ash Street	840 Azalea Drive
310 Ash Street	878 Cobia Drive
313 Ash Street	891 Cobia Drive
315 Ash Street	913 Barracuda Drive
316 Ash Street	916 Barracuda Drive
319 Ash Street	923 Wren Lane
320 Ash Street	1004 Bobwhite Drive
321 Ash Street	1022 Foxglove Street
329 Ash Street	1031 Foxglove Street
332 Ash Street	1061 Gardenia Drive
333 Ash Street	1064 Gardenia Drive
341 Ash Street	1067 Gardenia Drive
347 Ash Street	1077 Heather Street
378 Aspen Street	1081 Heather Street
379 Aspen Street	1101 Iris Lane
382 Aspen Street	1105 Iris Lane
394 Acorn Street	1142 Iris Lane
400 Elderberry Drive	1146 Iris Lane
432 Elderberry Drive	1218 Cardinal Lane
436 Elderberry Drive	1240 Dove Lane
482 Laurel Bay Blvd	1266 Dove Lane
517 Laurel Bay Blvd	1292 Eagle Lane
586 Aster Street	1299 Eagle Lane
632 Dahlia Drive	1302 Eagle Lane
639 Dahlia Drive	1336 Albatross Drive
643 Dahlia Drive	1351 Cardinal Lane