SUMMARY REPORT 261 FOXGLOVE STREET (FORMERLY 1034 FOXGLOVE STREET) LAUREL BAY MILITARY HOUSING AREA MARINE CORPS AIR STATION BEAUFORT BEAUFORT, SC

> Revision: 0 Prepared for:

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

and



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

JUNE 2021

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Summary Report 261 Foxglove Street (Formerly 1034 Foxglove Street) Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort June 2021

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List of Acronyms

bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
СТО	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 261 Foxglove Street (Formerly 1034 Foxglove Street). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

1.1 Background Information

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



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 heating oil 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, February 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, February 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, April 2013) and were revised again in Revision 3.0 (SCDHEC, May 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 IGWA sampling process utilizes temporary groundwater sampling points that are typically installed and sampled within the same day. The intent of the sampling point is to determine the presence or absence of the aforementioned COPCs in groundwater and identify whether former UST locations may require additional delineation of COPCs in groundwater. These sampling points are not subjected to the same installation standards as permanent monitoring wells and, as such; the data obtained from the IGWA wells can sometimes be biased high and is considered preliminary data. In order to confirm the presence of any impact to groundwater, a permanent well is installed where IGWA sampling has indicated the presence of COPCs is in excess of the SCDHEC RBSLs for groundwater. If COPCs are found to be present in the permanent well, additional permanent wells are installed to delineate the extent of impact to groundwater and a sampling program is established. Groundwater analytical results from permanent wells 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 261 Foxglove Street (Formerly 1034 Foxglove Street). The sampling activities at 261 Foxglove Street (Formerly 1034 Foxglove Street) comprised a soil investigation, IGWA sampling and installation and sampling of a permanent well. Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1034 Foxglove Street* (MCAS Beaufort, 2008) and the *SCDHEC UST Assessment Report – 1034 Foxglove Street* (MCAS Beaufort, 2011). The UST Assessment Reports are provided in Appendix B. Details regarding the IGWA sampling activities at this site are provided in 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. Details regarding the permanent well installation and sampling activities at this site are provided in the *Groundwater Assessment Report – March and April 2017* (Resolution Consultants, 2017). The laboratory report that includes the pertinent groundwater analytical results for this site is presented in Appendix D.

2.1 UST Removal and Soil Sampling

In July 2007 and March 2011, two 280 gallon heating oil USTs were removed from 261 Foxglove Street (Formerly 1034 Foxglove Street). Tank 1 was removed on July 30, 2007 from the front landscaped area adjacent to the house. Tank 2 was removed from on March 14, 2011 from the front grassed area adjacent to the sidewalk. The former UST locations are indicated on the figures of the UST Assessment Reports (Appendix B). The USTs were removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removals. According to the UST Assessment Reports (Appendix B), the depths to the bases of the USTs were 4'10" (Tank 1) and 4'9" (Tank 2) bgs and a single soil sample was collected for each from those depths. An additional soil sample was collected from a side wall of the excavation for Tank 1. The samples were collected from the fill port side of the former USTs to represent a worst case scenario.

Following UST removals, soil samples were collected from the bases of the excavations and the side of the excavation of 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 reports are included in the UST Assessment Reports presented in Appendix B. The laboratory analytical data report includes the soil results for the additional PAHs that were analyzed, but do not have associated RBSLs.

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST locations (Tanks 1 and 2) were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results



collected from the former UST location (Tank 1) at 261 Foxglove Street (Formerly 1034 Foxglove Street) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former USTs at concentrations that presented a potential risk to human health and the environment. SCDHEC's NFA letter is provided in Appendix E. The soil results collected from the former UST location (Tank 2) at 261 Foxglove Street (Formerly 1034 Foxglove Street) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In a letter dated July 1, 2015, SCDHEC requested an IGWA for 261 Foxglove Street (Formerly 1034 Foxglove Street) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letter is provided in Appendix E.

2.3 Initial Groundwater Sampling

On November 19, 2015, a temporary monitoring well was installed at 261 Foxglove Street (Formerly 1034 Foxglove Street), in accordance with the South Carolina Well Standards and Regulations (R.61-71.H-I, updated June 24, 2016). In order to provide data that can be used to determine whether COPCs are migrating to underlying groundwater, the monitoring well was placed in the same general location as the former heating oil UST (Tank 2). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). Further details are provided in the *Initial Groundwater Investigation Report – 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 well. Following well installation and development, groundwater samples were collected using low-flow methods and shipped to an offsite laboratory for analysis of the petroleum COPCs. Upon completion of groundwater sampling, the temporary well was abandoned in accordance with the South Carolina Well Standards and Regulations R.61-71.H-I (SCDHEC, 2016). Field forms are provided in the *Initial Groundwater Investigation Report – November and December 2015* (Resolution Consultants, 2016).

2.4 Initial 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 261 Foxglove Street (Formerly 1034 Foxglove Street) were greater than the SCDHEC RBSLs and the site specific groundwater VISLs (Table 2), which



indicated further investigation was required. In a letter dated June 8, 2016, SCDHEC requested a permanent well be installed for 261 Foxglove Street (Formerly 1034 Foxglove Street) to confirm the impact to groundwater detected in the temporary well sample. SCDHEC's request letter is provided in Appendix E.

2.5 Permanent Well Groundwater Sampling

On March 15, 2017, a permanent monitoring well was installed at 261 Foxglove Street (Formerly 1034 Foxglove Street), in accordance with the South Carolina Well Standards and Regulations (R.61-71.H-I, updated June 24, 2016). In order to provide data that can be used to determine whether COPCs are migrating to underlying groundwater, the monitoring well was placed in the same general location as the former heating oil UST (Tank 2) and the IGWA sample location. The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). Further details are provided in the *Groundwater Assessment Report – March and April 2017* (Resolution Consultants, 2017).

The sampling strategy for this phase of the investigation required a one-time sampling event of the permanent monitoring well. Following well installation and development, groundwater samples were collected using low-flow methods and shipped to an offsite laboratory for analysis of the petroleum COPCs. Field forms are provided in the *Groundwater Assessment Report – March and April 2017* (Resolution Consultants, 2017).

2.6 Permanent Well Groundwater Analytical Results

A summary of the laboratory analytical results and SCDHEC RBSLs is presented in Table 3. A copy of the laboratory analytical data report is included in Appendix D.

The groundwater results collected from 261 Foxglove Street (Formerly 1034 Foxglove Street) were less than the SCDHEC RBSLs and the site specific groundwater VISLs (Table 3), which indicated that the groundwater was not impacted by COPCs associated with the former UST (Tank 2) at concentrations that present a potential risk to human health and the environment.

3.0 **PROPERTY STATUS**

Based on the analytical results for soil collected for Tank 1 and groundwater collected from the permanent monitoring well for Tank 2, SCDHEC made the determination that NFA was required for 261 Foxglove Street (Formerly 1034 Foxglove Street). This NFA determination was obtained



in letters dated August 14, 2008 (Tank 1) and December 11, 2017 (Tank 2). SCDHEC's NFA letters are provided in Appendix E.

4.0 **REFERENCES**

- Marine Corps Air Station Beaufort, 2008. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 1034 Foxglove Street, Laurel Bay Military Housing Area, August 2008.
- Marine Corps Air Station Beaufort, 2011. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 1034 Foxglove Street, Laurel Bay Military Housing Area, June 2011.
- Resolution Consultants, 2015. Initial Groundwater Investigation Report November and December 2015 for Laurel Bay Military Housing Area, Multiple Properties, Marine Corps Air Station Beaufort, Beaufort, South Carolina, April 2016.
- Resolution Consultants, 2016. Groundwater Assessment Report March and April 2017 for Laurel Bay Military Housing Area, Multiple Properties, Marine Corps Air Station Beaufort, Beaufort, South Carolina, August 2017.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2013. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division, *Revision 2.0*, April 2013.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2015. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division, *Revision 3.0*, May 2015.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2016. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division, *Revision 3.1*, February 2016.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2017. *R.61-92, Part 280, Underground Storage Tank Control Regulations*, March 2017.



- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2018. Underground Storage Tank Assessment Instructions for Permanent Closure and Change-In-Service, March 2018.
- South Carolina Department of Health and Environmental Control Bureau of Water, 2016. *R.61-71, Well Standards*, June 2016.

Tables



Table 1Laboratory Analytical Results - Soil261 Foxglove Street (Formerly 1034 Foxglove Street)Laurel Bay Military Housing AreaMarine Corps Air Station BeaufortBeaufort, South Carolina

		Results Sample Collected 07/30/07 and 03/14/11				
Constituent	SCDHEC RBSLs ⁽¹⁾	1034 Foxglove Bottom 1034 Foxglove 07/30/07 07/30/07		1034 Foxglove 03/14/11		
Volatile Organic Compounds Anal	yzed by EPA Method 8260B (mg/l	(g)				
Benzene	0.003	ND	ND	0.00169		
Ethylbenzene	1.15	0.000217	ND	2.42		
Naphthalene	0.036	0.00161 ND		19.6		
Toluene	0.627	0.000333 0.000584		0.0148		
Xylenes, Total	13.01	0.000523 ND		7.92		
Semivolatile Organic Compounds	Analyzed by EPA Method 8270 (m	lg∕kg)				
Benzo(a)anthracene	0.066	ND	ND	0.0839		
Benzo(b)fluoranthene	0.066	ND	ND	ND		
Benzo(k)fluoranthene	0.066	ND	ND	ND		
Chrysene	0.066	ND	ND	0.134		
Dibenz(a,h)anthracene	0.066	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 1.0 (SCDHEC, May 2001).

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - milligrams per kilogram

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

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Table 2 Laboratory Analytical Results - Initial Groundwater 261 Foxglove Street (Formerly 1034 Foxglove Street) 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 Samples Collected 11/19/15
Volatile Organic Compounds Analyze	ed by EPA Method 8260B	3 (µg/L)	
Benzene	5	16.24	ND
Ethylbenzene	700	45.95	1.8
Naphthalene	25	29.33	26
Toluene	1000	105,445	ND
Xylenes, Total	10,000	2,133	2.8
Semivolatile Organic Compounds An	alyzed by EPA Method 8	270D (µg/L)	
Benzo(a)anthracene	10	NA	ND
Benzo(b)fluoranthene	10	NA	ND
Benzo(k)fluoranthene	10	NA	ND
Chrysene	10	NA	ND
Dibenz(a,h)anthracene	10	NA	ND

Notes:

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

⁽²⁾ Site-specific groundwater VISLs were calculated using the EPA JE Model Spreadsheets (Version 3.1, February 2004) and conservative modeling inputs representative of a small single-story house with an 8 foot ceiling. Site-specific groundwater VISLs were developed based on a target risk level of 1x10⁻⁶, a target hazard quotient of 1 (per target organ), and a default residential exposure scenario, assuming exposure for 24 hours/day, 350 days/year, for 26 years. Modeling was performed for a range of depths to groundwater for application as appropriate in different areas of the Laurel Bay Military Housing Area. The most conservative levels are presented for comparison. Refer to Appendix H of the Uniform Federal Policy Sampling Analysis and Sampling Plan for Vapor Media, Revision 4 (Resolution Consultants, April 2017) for additional information.

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

JE - Johnson & Ettinger

NA - not applicable

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

µg/L - micrograms per liter

VISL - Vapor Intrusion Screening Level

Table 3 Laboratory Analytical Results - Permanent Well Groundwater 261 Foxglove Street (Formerly 1034 Foxglove Street) 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 03/24/17
Volatile Organic Compounds Analyze	d by EPA Method 8260B	(μg/L)	
Benzene	5	16.24	ND
Ethylbenzene	700	45.95	ND
Naphthalene	25	29.33	1.5
Toluene	1000	105,445	ND
Xylenes, Total	10,000	2,133	ND
Semivolatile Organic Compounds Ana	alyzed by EPA Method 8	270D (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 D.

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

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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 Compley FAMILY Housing
Owner Name (Corporation, Individual, Public Agency, Other)
1510 LAURET BAY BED.
Beaufort SC 29906
City State Zip Code
070379-3305Kyle BROADF007Area CodeTelephone NumberContact Person

II. SITE IDENTIFICATION AND LOCATION

Actus LEND LEASE CONSTRUCTION	
racility Name or Company Site Identifier	
Street Address or State Road (as applicable)	
Beaufort SC 29906 Beaufort	
City County	

13 -

Attachment 2 III. INSURANCE INFORMATION

Insurance Statement

The petroleum release reported to DHEC on $\underline{\nu/A}$ 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 I	Tan	Tank 3	Tank 4	Tank 5	Tank é
А.	Product(ex. Gas, Kerosene)	#Z DIESEL		-			· · · ·
В.	Capacity(ex. 1k, 2k)	358g.					
C.	Age						
D.	Construction Material. (ex. Steel, FRP)	Steel					
E.	Month/Year of Last Use						<u> </u>
F.	Depth (ft.) To Base of Tank	58"					
G.	Spill Prevention Equipment Y/N	N		·			
H.	Overfill Prevention Equipment Y/N	N				· ·	
I.	Method of Closure Removed Filled	Removed					
J.	Date Tanks Removed/Filled	<u> </u>					
K.	Visible Corrosion or Pitting Y/N	7-30-07					
L.	Visible Holes Y/N	N					
	•						
M.	Method of disposal for any TIGT						

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

Recycling - Scap Steel

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

TREATMENT FACILIT

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

VI. PIPI INFORMATION

		Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
А.	Construction Material(ex. Steel, FRP)	Stee.					
В.	Distance from UST to Dispenser	NA					
C.	Number of Dispensers	- 0 -					
D.	Type of System Pressure or Suction	Flacter					
E.	Was Piping Removed from the Ground? Y/N	PUMP				i	
F.	Visible Corrosion or Pitting Y/N	N					
G.	Visible Holes Y/N	N					
H. .	Age						
,		- 14 -					
					_		

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

VII. BRIEF SITE DESCRIPTION AND HISTORY

Home Heating Dif TANK - RESIDENTIAL

	Yes	No	Unk
 A. Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells? If yes, indicate depth and location on the site map. 		×	
 B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells? If yes, indicate location on site map and describe the odor (strong, mild, etc.) 		4	
C. Was water present in the UST excavation, soil borings, or trenches? If yes, how far below land surface (indicate location and depth)?		×	
 D. Did contaminated soils remain stockpiled on site after closure? If yes, indicate the stockpile location on the site map. Name of DHEC representative authorizing soil removal: 		X	
 E. Was a petroleum sheen or free product detected on any excavation or boring waters? If yes, indicate location and thickness. 		X	

IX. SAM E INFORMATION

A:

SCDHEC Lab Certification Number DW: 84009002

<u>B.</u>							
Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA#
					7-30-07	MJONES	
1	BOTTOM	5	SAND	58"	1500	A. MANING	ND
2	SIDE	5	SAND	40"	1500	R MANPEY	ND
3							
4							
5				ļ	ļ		
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15							
16							
17					· · · · · · · · · · · · · · · · · · ·		
18							
19							
20							

* = Depth Below the Surrounding Land Surface

SAMPLING METHODOLO

X.

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

Mothod 8260 B VALATILE ORGANIC Compounds Reservative: 24 Sodium Bisulfate leA EPA METHOD Poly AROMATIC Hydro CARBONS 8270 PRESERVATIVE No

ONe SIDEWA1 Battom Anno ONE. were Scenced TANK from DATCHIA AND Shipped ۵ ex 15 Stoned ist And Cooler INSulated w r

XI. RECEPTO___

		Yes	No
А.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?		
	If yes, indicate type of receptor, distance, and direction on site map.		17
В.	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.		i i i
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.		1
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?	-	
	If yes, indicate the type of utility, distance, and direction on the site map.		2
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?		1
	If yes, indicate the area of contaminated soil on the site map.		

SUMMARY OF ANALYSIS RESULTS

NIA

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			н. -					
Benzo(b)flouranthene								
Benzo(k)flouranthene								
Chrysene								
Dibenz(a,h)anthracene							·	
ТРН (ЕРА 3550)					Ī			

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

SUMMARY OF ANALYSIS RESULTS (cont'd)

NLA

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				
МТВЕ	40				
Naphthalene	25				
Benzo(a)anthracene	10				
Benzo(b)flouranthene	10				
Benzo(k)flouranthene	10				
Chrysene	10				
Dibenz(a,h)anthracen e	10				
EDB	.05				
1,2-DCA	.05				
Lead	Site specific				





•		· · ·
A TANK BASE	 034 2 58''	
<u>TANK EXCAVA</u> A-SOIL TEST SI B-SOIL TEST B	FOX GLOVE STR <u>ITION</u> IDE SAMPLE @ 40'' OTTOM SAMPLE @ 5	EET N 8 ¹¹
CUSTOMER : BEAUFORT MILITARY COMPLEX FAMILY HOUSING SITE ADDRESS : 1034 FOX GLOVE STREET	SCALE : //I G"= I'-O" SUPPLIER : EPG INC. DATE : 9/22/2007	<u>EPG INC.</u> p.o. box 1096 mount pleasant, sc 29465-1096

-

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)



THE LEADER IN ENVIRONMENTAL TESTING

Client: EPG, INC.

PO BOX 1096 MT PLEASANT, SC 29465

Attn: JOHN MAHONEY

4310 East Anderson Road Orlando, FL 32812 * 800-851-2560 * Fax 407-856-0886

Work Order: Project: Project Number:

OQH0571 LAUREL BAY ber: EP-2362 Sampled: 07/30/07-08/01/07 Received: 08/23/07

LABORATORY REPORT Sample ID: 1026 FOXGLOVE SIDE 2 - Lab Number: OQH0571-08 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	Ву	Method	Batch
Polyaror	natic Hydrocarbons by EP/	A 8270C					•				
83-32-9	Acenaphthene	0.0381	Q,U	mg/kg dry	0.0381	0.0709	1	08/31/07 01:17	RLB	SW846 827	0C7085614
208-96-8	Acenaphthylene	0.0465	U,Q	mg/kg dry	0.0465	0.0709	1	08/31/07 01:17	RLB	SW846 827	0C7085614
120-12-7	Anthracene	0.0423	Q,U	mg/kg dry	0.0423	0.0709	1	08/31/07 01:17	RLB	SW846 827	0C7085614
56-55-3	Benzo (a) anthracene	0.0391	Q,U	mg/kg dry	0.0391	0.0709	1	08/31/07 01:17	RLB	SW846 827	0C7085614
50-32-8	Benzo (a) pyrene	0.0423	Q,U	mg/kg dry	0.0423	0.0709	1	08/31/07 01:17	RLB	SW846 827	0C7085614
205-99-2	Benzo (b) fluoranthene	0.0402	Q,U	mg/kg dry	0.0402	0.0709	1	08/31/07 01:17	RLB	SW846 827	0C7085614
191-24-2	Benzo (g,h,i) perylene	0.0286	Q,U	mg/kg dry	0.0286	0.0709	1	08/31/07 01:17	RLB	SW846 827	0C7085614
207-08-9	Benzo (k) fluoranthene	0.0487	Q,U	mg/kg dry	0.0487	0.0709	1	08/31/07 01:17	RLB	SW846 827	0C7085614
218-01-9	Chrysene	0.0413	Q,U	mg/kg dry	0.0413	0.0709	1	08/31/07 01:17	RLB	SW846 827	0C7085614
53-70-3	Dibenz (a,h) anthracene	0.0275	Q,U	mg/kg dry	0.0275	0.0709	1	08/31/07 01:17	RLB	SW846 827	0C7085614
206-44-0	Fluoranthene	0.0444	Q,U	mg/kg dry	0.0444	0.0709	1	08/31/07 01:17	RLB	SW846 827	0C7085614
36-73-7	Fluorene	0.0455	Q.U	mg/kg drv	0.0455	0.0709	1	08/31/07 01:17	RLB	SW846 827	0C7085614
193-39-5	Indeno (1,2,3-cd) pyrene	0.0360	Q,U	mg/kg dry	0.0360	0.0709	1	08/31/07 01:17	RLB	SW846 827	0C7085614
)1-20-3	Naphthalene	0.0423	Q,U	mg/kg dry	0.0423	0.0709	1	08/31/07 01:17	RLB	SW846 827	0C7085614
35-01-8	Phenanthrene	0.0423	Q,U	mg/kg dry	0.0423	0.0709	1	08/31/07 01:17	RLB	SW846 8270	0C7085614
29-00-0	Рутепе	0.0497	Q,U	mg/kg dry	0.0497	0.0709	1	08/31/07 01:17	RLB	SW846 8270	0C7085614
0-12-0	1-Methylnaphthalene	0.0381	Q,U	mg/kg dry	0.0381	0.0709	1	08/31/07 01:17	RLB	SW846 8270	0C7085614
1-57-6	2-Methylnaphthalene	0.0381	Q,U	mg/kg dry	0.0381	0.0709	1 .	08/31/07 01:17	RLB	SW846 8270	0C7085614
lurrogate: 1	Terphenyl-d14 (49-123%)	57 %	-								
lurrogate: 2	2-Fluorobiphenyl (30-93%)	51%									
lurrogate: 1	Nitrobenzene-d5 (34-87%)	51%									

LABORATORY REPORT

Sample ID: 1034 FOXGLOVE BOTTOM - Lab Number: OQH0571-09 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	Ву	Method	Batch
General	Chemistry Parameters					-					
łA	% Solids	82.8	Q	%.	0.100	0.100	1	08/28/07 18:25	RRP	EPA 160.3	7H28046
Volatile	Organic Compounds by EPA	Method 826	0 B								
1-43-2	Benzene	0.0967	Q,U	ug/kg dry	0.0967	0.264	1	08/24/07 13:08	JLS	EPA 8260B	7H24014
00-41-4	Ethylbenzene	0.217	Q.I	ug/kg dry	0.112	0.264	1	08/24/07 13:08	JLS	EPA 8260B	7H24014
1-20-3	Naphthalene	1.61	Q	ug/kg dry	0.146	0.264	1	08/24/07 13:08	JLS	EPA 8260B	7H24014
08-88-3	Toluene	0.333	Q	ug/kg dry	0.228	0.264	1	08/24/07 13:08	JLS	EPA 8260B	7H24014
330-20-7	Xylenes, total	0.523	Q	ug/kg dry	0.137	0.264	1	08/24/07 13:08	JLS	EPA 8260B	7H24014
urrogate:	I,2-Dichloroethane-d4 (73-137%)	122 %	-								
urrogate:	4-Bromofluorobenzene (59-118%)	102 %									
urrogate:	Dibromofluoromethane (55-145%)	110 %									
urrogate:	Toluene-d8 (80-117%)	104 %									
Jeneral	Chemistry Parameters										
olids	% Dry Solids	82.8	SP S	%	0.500	0.500	1	08/28/07 18:25	AEB	SW-846	7085830
'olyaroı	matic Hydrocarbons by EPA 8	270C									
3-32-9	Acenaphthene	0.0422	Q,U	mg/kg dry	0.0422	0.0786	1	08/31/07 01:43	RLB	SW846 8270	C7085614
)8-96-8	Acenaphthylene	0.0516	Q,U	mg/kg dry	0.0516	0.0786	1	08/31/07 01:43	RLB	SW846 8270	C7085614

TestAmerica - Orlando, FL Enid Ortiz For Shali Brown

Project Manager



THE LEADER IN ENVIRONMENTAL TESTING

4310 East Anderson Road Orlando, FL 32812 * 800-851-2560 * Fax 407-856-0886

Client: EPG, INC.

PO BOX 1096 MT PLEASANT, SC 29465 Attn: JOHN MAHONEY Work Order: Project: Project Number:

OQH0571 LAUREL BAY r: EP-2362 Sampled: 07/30/07-08/01/07 Received: 08/23/07

LABORATORY REPORT

Sample ID: 1034 FOXGLOVE BOTTOM - Lab Number: OQH0571-09 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	Ву	Method	Batch
Polyaron	natic Hydrocarbons by EP	A 8270C - Cont							-	·	
120-12-7	Anthracene	0.0469	Q,U	mg/kg dry	0.0469	0.0786	1	08/31/07 01:43	RLB	SW846 827	0C7085614
56-55-3	Benzo (a) anthracene	0.0434	Q,U	mg/kg dry	0.0434	0.0786	- 1	08/31/07 01:43	RLÐ	SW846 827	0C7085614
50-32-8	Benzo (a) pyrene	0.0469	Q,U	mg/kg dry	0.0469	0.0786	1	08/31/07 01:43	RLÐ	SW846 827	0C7085614
205-99-2	Benzo (b) fluoranthene	0.0446	Q,U	mg/kg dry	0.0446	0.0786	1	08/31/07 01:43	RLB	SW846 827	0C7085614
191-24-2	Benzo (g,h,i) perylene	0.0317	Q,U	mg/kg dry	0.0317	0.0786	1	08/31/07 01:43	RLB	SW846 827	0C7085614
207-08-9	Benzo (k) fluoranthene	0.0540	Q,U	mg/kg dry	0.0540	0.0786	1	08/31/07 01:43	RLB	SW846 827	0C7085614
218-01-9	Chrysene	0.0457	Q,U [·]	mg/kg dry	0.0457	0.0786	1	08/31/07 01:43	RLB	SW846 827	0C7085614
53-70-3	Dibenz (a,h) anthracene	0.0305	Q,U	mg/kg dry	0.0305	0.0786	I	08/31/07 01:43	RLB	SW846 827	0C7085614
206-44-0	Fluoranthene	0.0493	Q,U	mg/kg dry	0.0493	0.0786	1	08/31/07 01:43	RLB	SW846 827	0C7085614
36-73-7	Fluorene	0.0504	Q,U	mg/kg dry	0.0504	0.0786	1	08/31/07 01:43	RLB	SW846 827	DC7085614
193- 39-5	Indeno (1,2,3-cd) pyrene	0.0399	Q,U	mg/kg dry	0.0399	0.0786	1	08/31/07 01:43	RLB	SW846 827	0C7085614
91- 2 0-3	Naphthalene	0.0469	Q.U	mg/kg dry	0.0469	0.0786	t	08/31/07 01:43	RUB	SW846 8270	DC7085614
35-01-8	Phenanthrene	0.0469	Q,U	mg/kg dry	0.0469	0.0786	1	08/31/07 01:43	RLB	SW846 827	0C7085614
l 29-00-0	Ругепе	0.0551	Q,U	mg/kg dry	0.0551	0.0786	1	08/31/07 01:43	RLB	SW846 8270	0C7085614
90-12-0	1-Methylnaphthalene	0.0422	Q,U	mg/kg dry	0.0422	0.0786	1	08/31/07 01:43	RLB	SW846 8270	DC7085614
91-57-6	2-Methylnaphthalene	0.0422	Q.U	mg/kg dry	0.0422	0.0786	1	08/31/07 01:43	RLB	SW846 8270	C7085614
Surrogate: 1	Terphenyl-d14 (49-123%)	57 %									
Surrogate: 2	2-Fluorobiphenyl (30-93%)	58 %									
Surrogate: 1	Vitrobenzene-dS (34-87%)	54 %									
U	,										

LABORATORY REPORT

Sample ID: 1034 FOXGLOVE SIDE 2 - Lab Number: OQH0571-10 - Matrix: Solid/Soil Dil Analyzed CAS # Analyte Result Q Units MDL PQL Method Batch Factor By Date/Time **General Chemistry Parameters** % Solids JA 86.0 Q %. 0.100 0.100 1 08/28/07 18:25 RRP EPA 160.3 7H28046 Volatile Organic Compounds by EPA Method 8260B 1-43-2 Benzene 0.0999 ug/kg dry 0.0999 08/24/07 13:25 JLS Q,U 0.273 1 EPA 8260B 7H24014 00-41-4 Ethylbenzene 0.115 Q,U ug/kg dry 0.115 0.273 1 08/24/07 13:25 JLS EPA 8260B 7H24014 1-20-3 Naphthalene 0.151 Q,U ug/kg dry 0.151 0.273 1 08/24/07 13:25 JLS EPA 8260B 7H24014 08-88-3 Toluene 7H24014 0.584 ug/kg dry 0.236 0.273 Q 1 08/24/07 13:25 JLS EPA 8260B Xylenes, total 330-20-7 -0.142 Q,U ug/kg dry 0.142 0.273 1 08/24/07 13:25 JLS EPA 8260B 7H24014 urrogate: 1,2-Dichloroethane-d4 (73-137%) 112 % urrogate: 4-Bromofluorobenzene (59-118%) 100 % urrogate: Dibromofluoromethane (55-145%) 108 % urrogate: Toluene-d8 (80-117%) 104 % **General Chemistry Parameters** % Dry Solids olids 86.0 % 0.500 SPS 0.500 08/28/07 18:25 SW-846 1 AEB 7085830 olyaromatic Hydrocarbons by EPA 8270C 3-32-9 Acenaphthene 0.0415 Q,U mg/kg dry 0.0415 0.0773 08/31/07 02:09 RLB SW846 8270C7085614 1 08-96-8 Acenaphthylene 0.0508 Q,U mg/kg dry 0.0508 0.0773 1 08/31/07 02:09 RLB SW846 8270C7085614 20-12-7 Anthracene 0.0461 Q,U mg/kg dry 0.0461 0.0773 1 08/31/07 02:09 RLB SW846 8270C7085614 5-55-3 Benzo (a) anthracene 0.0427 mg/kg dry Q,U 0.0427 0.0773 1 08/31/07 02:09 RLB SW846 8270C7085614

TestAmerica - Orlando, FL

Enid Ortiz For Shali Brown

Project Manager

TestAmeric

THE LEADER IN ENVIRONMENTAL TESTING

4310 East Anderson Road Orlando, FL 32812 * 800-851-2560 * Fax 407-856-0886

Client: EPG, INC.

PO BOX 1096 MT PLEASANT, SC 29465 Attn: JOHN MAHONEY Work Order: Project: Project Number:

OQH0571 LAUREL BAY :: EP-2362 Sampled: 07/30/07-08/01/07 Received: 08/23/07

LABORATORY REPORT

Sample ID: 1034 FOXGLOVE SIDE 2 - Lab Number: OQH0571-10 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	Ву	Method	Batch
Polyaror	natic Hydrocarbons by EP/	8270C - Con	t.							<u> </u>	
50-32-8	Benzo (a) pyrene	0.0461	Q,U	mg/kg dry	0.0461	0.0773	I	08/31/07 02:09	RLB	SW846 827	0C7085614
205-99-2	Benzo (b) fluoranthene	0.0438	Q.U	mg/kg dry	0.0438	0.0773	1	08/31/07 02:09	RLB	SW846 827	0C7085614
191-24-2	Benzo (g,h,i) perylene	0.0311	Q.U	mg/kg dry	0.0311	0.0773	I	08/31/07 02:09	RLB	SW846 827	0C7085614
207-08-9	Benzo (k) fluoranthene	0.0531	Q,U	mg/kg dry	0.0531	0.0773	1	08/31/07 02:09	RLB	SW846 827	0C7085614
218-01-9	Chrysene	0.0450	Q.U	mg/kg dry	0.0450	0.0773	1	08/31/07 02:09	RLB	SW846 827	0C7085614
53-70-3	Dibenz (a,h) anthracene	0.0300	Q,U	mg/kg dry	0.0300	0.0773	1	08/31/07 02:09	RLB	SW846 827	0C7085614
206-44-0	Fluoranthene	0.0484	Q,U	mg/kg dry	0.0484	0.0773	1	08/31/07 02:09	RLB	SW846 827	0C7085614
86 - 73-7	Fluorene	0.0496	Q,U	mg/kg dry	0.0496	0.0773	1	08/31/07 02:09	RLB	SW846 827	0C7085614
193-39-5	Indeno (1,2,3-cd) pyrene	0.0392	Q,U	mg/kg dry	0.0392	0.0773	1	08/31/07 02:09	RLB	SW846 827	0C7085614
91-20-3	Naphthalene	0.0461	Q,U	mg/kg dry	0.0461	0.0773	1	08/31/07 02:09	RLB	SW846 827	0C7085614
85-01-8	Phenanthrene	0.0461	Q,U	mg/kg dry	0.0461	0.0773	1	08/31/07 02:09	RLB	SW846 827	007085614
129-00-0	Pyrene	0.0542	U.O	me/ke drv	0.0542	0.0773	1	08/31/07 02:09	RIR	SW846 8276	007085614
) 0-12-0	I-Methylnaphthalene	0.0415	Q,U	mg/kg dry	0.0415	0.0773	1	08/31/07 02:09	RIB	SW846 8276	007085614
91 -57-6	2-Methylnaphthalene	0.0415	Q,U	mg/kg dry	0.0415	0.0773	1	08/31/07 02:09	RIB	SW846 8270	007085614
Surrogate: T	[erphenyl-d14 (49-123%)	52 %	•				-			0.0010.011	507005014
Surrogate: 2	?-Fluorobiphenyl (30-93%)	51%									
Surrogate: 1	Nitrobenzene-d5(34-87%)	10 %									

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

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ANALYTICAL TESTING CORPORA															is this	s work i Com	being o pliance	conduc Monit	ted for oring	regulate	уу риң	poses?	
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Sampler Name: (Print Name)	Mac	. K	1	<u>ne</u>	5									Inv	voice To	:		• • • •					
Sampler Signature:		<u> </u>						·					\mathcal{Q}	I	Quote #	: 				PC	¥:		<u> </u>
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Attachment 1

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

Date Received SHORE-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: N	REAO (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 Hou Facility Name or Company Site Iden	sing Area, Marine Corps Air Station, Beaufort, SC ntifier					
1034 Foxglove Street, 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

		1034Foxglove
A	Product. (ex. Gas. Kerosene)	Heating oil
B.	Capacity(ex. 1k, 2k)	280 gal
C.	Age	Late 1950s
D.	Construction Material(ex. Steel, FRP)	Steel
Е·	Month/Year of Last Use	Mid 80s
F.	Depth (ft.) To Base of Tank	4'9"
G.	Spill Prevention Equipment Y/N	No
Н∙	Overfill Prevention Equipment Y/N	No
I.	Method of Closure Removed/Filled	Removed
J.	Date Tanks Removed/Filled	3/14/2011
K.	Visible Corrosion or Pitting Y/N	Yes
L.	Visible Holes Y/N	Yes

M. Method of disposal for any USTs removed from the ground (attach disposal manifests) UST 1034Foxglove 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)
 <u>UST 1034Foxglove was previously filled with sand by others.</u>

O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST <u>Corrosion</u>, pitting and holes were found throughout the tank.

VII. PIPING INFORMATION

		1034Foxglove				
		Steel				
A.	Construction Material(ex. Steel, FRP)	& Copper				
B.	Distance from UST to Dispenser	N/A				
C.	Number of Dispensers	N/A				
D.	Type of System Pressure or Suction	Suction				
E.	Was Piping Removed from the Ground? Y/N	Yes				
F.	Visible Corrosion or Pitting Y/N	Yes				
G.	Visible Holes Y/N	No				
H.	Age	Late 1950s				
I.	If any corrosion, pitting, or holes were observed, des	scribe the location and extent for each piping run.				
	Steel vent piping was corroded and pitted. The copper supply and					

return piping were sound.

VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

IX. SITE CONDITIONS

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

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009001

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
1034 Foxqlove	Excav at fill end	Soil	Sandy	4'9"	3/14/11 1145 hrs	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16		•					
17							
18							
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20							

* = Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

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

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

XII. RECEPTORS

		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within	*X	
	1000 feet of the UST system? *Approx 1,000' to Broad F	iver	&
ł	225' to stormwater drain	age c	anal
_	If yes, indicate type of receptor, distance, and direction on site map.		
В.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		x
	If yes, indicate type of well, distance, and direction on site map.		
C.	Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?		x
	If yes, indicate type of structure, distance, and direction on site		
	map.		
D.	Are there any underground utilities (e.g., telephone, electricity, gas,	*X	
	water, sewer, storm drain) located within 100 feet of the UST		
	system that could potentially come in contact with the		
	contamination? *Sewer, water, ele	ectri	city,
	cable and fiber op	ptic	
	If yes, indicate the type of utility, distance, and direction on the site		
	map.		
E	Use contaminated soil been identified at a doubt loss than 2 foot		
E.	has contaminated soil been identified at a depth less than 3 feet		x
	concrete?		
	If yes, indicate the area of contaminated soil on the site man		
ł	if yes, indicate the area of containinated son on the site map.	1	1

XIII. SITE MAP

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

(Attach Site Map Here)









Picture 1: Location of UST 1034Foxglove.



Picture 2: UST 1034Foxglove 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	1034Foxglove					
Benzene	0.00169 mg/	kg				
Toluene	0.0148 mg/k	g				
Ethylbenzene	2.42 mg/kg					
Xylenes	7.92 mg/kg					
Naphthalene	19.6 mg/kg					
Benzo (a) anthracene	0.0839 mg/k	a				
Benzo (b) fluoranthene	ND					
Benzo (k) fluoranthene	ND					
Chrysene	0.134 mg/kg					
Dibenz (a, h) anthracene	ND)				
TPH (EPA 3550)						
			T	1		
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				
МТВЕ	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:NUC3441Project Name:Laurel BayProject Nbr:[none]P/O Nbr:1027Date Received:03/19/11

NUC3441 Laurel Bay Housing Project [none] 1027 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	NUC344I-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:

Kozarne L. Connor

Roxanne Connor Program Manager - Conventional Accounts

THE LEADER IN ENVIRONMENTAL TESTING

Client Attn	EEG - Small Business Group, Inc. (2449) 10179 Highway 78 Ladson, SC 29456 Tom McElwee				Work C Project Project Receive	Work Order: Project Name: Project Number: Received:		NUC3441 Laurel Bay Housing Project [none] 03/19/11 08:15					
				ANALYI	TICAL REPO	RT							
Analyt	e	Result	Flag	Units	MDL	MRI	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch		

Sample ID: NUC3441-01 (1034 Foxglove - Soil) Sampled: 03/14/11 11:45 General Chemistry Parameters

Volatile Organic Compounds by EPA Method 8260B U ms/k afty 0.0125 0.0127 1 0.0281 1.15.20 SWee R026 MI 1.01231 Entylphonzen 19.6 B1 ms/k afty 0.011 0.143 0 0.0281112.05 SWee R026 MI 1.02312 Naphtalene 19.6 B1 ms/k afty 0.001 0.0027 1 0.3281112.05 SWee R026 MI 1.02312 Strip L3 Dekonenham-d (75.13%) 96.6 1 0.3281117.02 SWee R026 MI 1.02312 Strip L3 Dekonenham-d (75.13%) 96.6 1 0.328117.02 SWee R026 MI 1.02312 Strip L3 Dekonenhamed (75.13%) 0.016 1 0.328117.02 SWee R026 MI 1.02312 Strip L3 Dekonenhamed (75.13%) 0.016 2 1 0.328117.02 SWee R026 MI 1.02312 Strip Demonflaromethame (75.12%) 0.016 2 1 0.328117.02 SWee R026 MI 1.02312 Strip Demonflaromethame (75.12%) <t< th=""><th>% Dry Solids</th><th>80.7</th><th></th><th>%</th><th>0.500</th><th>0.500</th><th>1</th><th>03/30/11 14:37</th><th>SW-846</th><th>AMS</th><th>11C7014</th></t<>	% Dry Solids	80.7		%	0.500	0.500	1	03/30/11 14:37	SW-846	AMS	11C7014
Benzare 0.00169 j mska dy 0.0025 0.0027 1 0.378/11342 9949 6200 MII 10.1231 Ehylbenzere 1.42 mska dy 0.011 0.143 0.028/11720 9948 6200 MII 10.328 Toluene 0.014 mska dy 0.001 0.0027 1 0.328/11720 8948 6300 MII 10.328 Xylers, tola 7.92 mska dy 0.010 0.0027 1 0.328/11720 8948 6300 MII 10.328 Surr, J.2.Dickhorechane.d4 (67.13%) 81% 1 0.328/11720 8946 6300 MII 10.328 Surr, J.2.Dickhorechane.d4 (67.13%) 93% 1 0.328/11720 8946 6300 MII 10.328 Surr, Dichmongharomechane (75.12%) 93% Zxv 1 0.328/11720 8946 6300 MII 10.328 Surr, Dichmongharomechane (76.12%) 93% Zxv 1 0.328/11720 8946 6300 MII 10.328 Surr, Dichano	Volatile Organic Compounds by EP	A Method 8260	В								
Ethylbenzene 2.42 mekkgdv 0.0711 0.145 50 0328/11720 SW46 3260 MH 1072312 Naphtalane 0.048 mekkgdv 0.017 7.26 100 0328/11720 SW46 3260 MH 1072312 Xipenes, total 7.92 mekkgdv 0.138 0.363 50 0328/11720 SW46 3260 MH 1072312 Strir: I-Dirohonschame-44 (67-138%) 90% SW46 3260 MH 1072312 SW46 3260 MH 1072312 Strir: I-Dirohonschame-44 (67-138%) 90% SW46 3260 MH 1072312 SW46 3260 MH 1072312 Strir: I-Dirohonschame-44 (67-138%) 93.6 23.8 10.00 32.8 11.01.2 SW46 4260 MH 1072312 Strir: I-Dirohonschame-46 (76-129%) 93.6 32.8 10.00 32.8 10.00 32.8 10.01 10.02321 Strir: I-Dirohonschame-46 (76-129%) 0.03% Q2.8 11.01.23 SW46 4260 MH 1072312 Strir: I-Dirohonschame-46 (76-129%) 0.03% Q2.8 11.02.02 SW46 4260 MH 1072312<	Benzene	0.00169	J	mg/kg dry	0.00125	0.00227	1	03/28/11 13:42	SW846 8260B	MJH	11C5212
Naphthalene 19.6 ng/k g/v 2.47 7.26 1000 0.02101 55.848.320 MH 10.1212 Tolucne 0.0146 mg/k g/v 0.0101 0.0027 1 0.528/113.02 5544.8208 MH 10.1212 Surr. 1.2.Dickloroschame.44 (67.13%) 9.6% 1 0.328 1.0 0.281/17.20 5544.8208 MH 1.0321 Surr. 1.2.Dickloroschame.44 (67.13%) 1.0% 1 0.281/17.20 5544.8208 MH 1.0321 Surr. 1.2.Dickloroschame.44 (67.13%) 1.0% 1 0.281/17.20 5544.8208 MH 1.0321 Surr. 1.2.Dickloroschame.47.13%) 1.0% 1.0 0.281/17.20 5544.8208 MH 1.0321 Surr. 1.2.Dickloroschame.47.17%) 2.3% 2.4 1.0 0.281/17.20 5544.8208 MH 1.0321 Surr. 1.2.Dickloroschame.47.17% 3.7% 2.4 1.0 0.281/17.20 5544.8208 MH 1.0321 Surr. 1.2.Dickloroschame.47.17% 3.7% 2.4 1.0 0.281/17.20	Ethylbenzene	2.42		mg/kg dry	0.0711	0.145	50	03/28/11 17:20	SW846 8260B	MJH	11C5212
Toluene 0.014 mg/kg dy 0.0101 0.0027 1 0.328/113/2 SWA 5200 MH 1.12212 Xylenes, tolal 7.2 mg/kg dy 0.138 0.036 50 0.281/117.0 SWA 5200 MH 1.12212 Xwr: 1.2-Dickhorschmed4 (67-139%) 9.15 0.138 0.138 0.136 0.0287 1.7 0.8746 3200 MH 1.17321 Swr: 1.2-Dickhorschmed4 (67-139%) 9.15 0.15 0.281/17.20 SWA 63200 MH 1.17321 Swr: Dichomsfhuromchanter (72-1334) 8.15 2.5 1.0 0.0 0.281/17.20 SWA 63200 MH 1.17321 Swr: Dichomsfhuromchanter (72-1334) 8.45 2.7 1.0 0.281/17.20 SWA 63200 MH 1.17321 Swr: Dichomsfhuromchanter (72-1334) 9.35 2.7 1.0 0.281/17.20 SWA 63200 MH 1.17321 Swr: Dichomsfhuromchanter (72-1334) 1.074 2.7 1.0 0.281/17.20 SWA 63200 MH 1.17321 Swr: Dichomsfhuromchanter (72-1334) 1.074 2.7 1.0 0.281/17.20 SWA 63200 MH </td <td>Naphthalene</td> <td>19.6</td> <td>BI</td> <td>mg/kg dry</td> <td>2.47</td> <td>7.26</td> <td>1000</td> <td>03/28/11 20:57</td> <td>SW846 8260B</td> <td>MJH</td> <td>11C5212</td>	Naphthalene	19.6	BI	mg/kg dry	2.47	7.26	1000	03/28/11 20:57	SW846 8260B	MJH	11C5212
Xylenes, total 7.52 mg/kg dry 0.138 0.033 50 0.328/11 1/2.0 8W6 82.000 MUH 11/C2212 Surr: 1.2.Deblorachane-44 (67-138%) 96% 96 90 328/11 20.57 8W46 82.000 MUH 11/C3212 Surr: 1.2.Deblorachane-44 (67-138%) 93% 93% 1000 0.228/11 20.57 8W46 82.000 MUH 11/C3212 Surr: 1.2.Deblorachane-44 (67-138%) 93% 100 0.228/11 20.57 8W46 82.000 MUH 11/C3212 Surr: Dhomoflucomethane (75-125%) 93% 20 1000 0.328/11 72.05 8W46 82.000 MUH 11/C3212 Surr: Dhomoflucomethane (75-125%) 93% 2X 1000 0.328/11 72.05 8W46 82.000 MUH 11/C3212 Surr: Toluene-48 (76-129%) 104% 2X 1000 0.328/11 72.0 8W46 82.000 MUH 11/C3212 Surr: Toluene-48 (76-129%) 104% 2X 1000 0.328/11 72.0 8W46 82.000 MUH 11/C3212 Surr: Toluene-48 (76-129%) 101% 2X 1000 0.328/11 72.0 8W46 82.000 MUH 11/C3212 Surr: Toluene-	Toluene	0.0148		mg/kg dry	0.00101	0.00227	1	03/28/11 13:42	SW846 8260B	MJH	11C5212
Surr. 1.2.Deckhorsehame.dt (67-138%) 96 % 1 0.328 /11.3:21 878.46 82.08 M.DH 117.323 Surr. 1.2.Deckhorsehame.dt (67-138%) 91 % 1000 0.328 /11.7.20 878.46 82.08 M.DH 117.323 Surr. 1.2.Deckhorsehame.dt (67-138%) 91 % 1000 0.328 /11.7.20 878.46 82.08 M.DH 117.323 Surr. 1.2.Deckhorsehame.dt (57-135%) 81 % 1000 0.328 /11.7.20 878.46 82.08 M.DH 117.323 Surr. Dhomoghuromethame (75-125%) 93 % 1000 0.328 /11.7.20 878.46 82.08 M.DH 117.323 Surr. Tohusend (76-129%) 403 % ZX 1 0.328 /11.7.20 878.46 82.08 M.DH 117.323 Surr. Tohusend (76-129%) 401 % ZX 1 0.328 /11.7.20 878.46 82.08 M.HH 117.323 Surr. Tohusend (76-129%) 101 % 2X 1 0.328 /11.7.20 878.46 82.08 M.HH 117.323 Surr. Tohusend (76-129%) 31 % ZX 1 0.324 /11.2.12 878.46 82.08 M.HH 117.323 Surr. Tohusend (76-129%) 31 % ZX 1 0.3	Xylenes, total	7 .92		mg/kg dry	0.138	0.363	50	03/28/11 17:20	SW846 8260B	MJH	11C5212
Surr. 1.2:Dickforcedame.df (67-13%) 8/9% 50 0.9.2 8/11/2.00 SUR4 8.2800 M/H 11/5321 Surr. 1.2:Dickforcedame.df (75-13%) 9.3 % 1000 0.2 28/11/2.00 SUR4 8.2800 M/H 11/5321 Surr. Dickmonfluoromethane (75-123%) 8/1 % 50 0.3 28/11/2.00 SUR4 8.2800 M/H 11/5321 Surr. Dickmonfluoromethane (75-123%) 8/1 % 50 0.3 28/11/2.00 SUR4 8.2800 M/H 11/5321 Surr. Dickmonfluoromethane (75-129%) 40.9 % 2X 1 0.3 28/11/2.00 SUR4 8.2800 M/H 11/5321 Surr. Tohuen-dR (76-129%) 107 % 2X 1 0.3 28/11/2.00 SUR4 8.2800 M/H 11/5321 Surr. Tohuen-dR (76-129%) 104 % 2X 1 0.3 28/11/2.00 SUR4 8.2800 M/H 11/5321 Surr. Tohuen-dR (76-129%) 144 % 2X 1 0.3 28/11/2.00 SUR4 8.2800 M/H 11/5321 Surr. Tohuen-dR (76-129%) 144 % 2X 1 0.3 28/11/2.00 SUR4 8.2800 M/H 11/5321 Surr. Tohuen-dR (76-129%) 114 % 2 SUR4 8.2800 </td <td>Surr: 1,2-Dichloroethane-d4 (67-138%)</td> <td>96 %</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>03/28/11 13:42</td> <td>SW846 8260B</td> <td>MJH</td> <td>HC5212</td>	Surr: 1,2-Dichloroethane-d4 (67-138%)	96 %					1	03/28/11 13:42	SW846 8260B	MJH	HC5212
Surr. 1.2-Dichloroschane.d4 (67-13%) 93% 1000 03.28.71 20.57 SWH 84.52.00 MJH 11/15/212 Surr. Dihomonfluoromethane (75-12%) N5% N5% SWH 13-20 SWH 85.200 MJH 11/15/212 Surr. Dihomonfluoromethane (75-12%) N5% SWH 13-20 SWH 85.200 MJH 11/15/212 Surr. Tolutomethane (75-12%) 93% 2X I 03.28.11 17.20 SWH 85.200 MJH 11/15/212 Surr. Tolutomet 47 (76-12%) 107% 2X I 03.28.11 17.20 SWH 85.200 MJH 11/15/212 Surr. Tolutomet 47 (76-12%) 101% 2X I 03.28.11 17.20 SWH 85.200 MJH 11/15/212 Surr. Tolutomet 47 (76-12%) 101% 2X I 03.28.11 17.20 SWH 85.200 MJH 11/15/212 Surr. Tolutomethane (77.17%) 371% 2X I 03.28.11 17.20 SWH 85.200 MJH 11/15/212 Surr. Tolutomethane (77.17%) 13.4% 0.0173 0.0827 1 03.24.11 22.18 SWH 85.200 MJH 11/15/212 Surr. Tolutomethane (77.17%) MD mg/kg dy <td< td=""><td>Surr: 1,2-Dichloroethane-d4 (67-138%)</td><td>81 %</td><td></td><td></td><td></td><td></td><td>50</td><td>03/28/11 17:20</td><td>SW846 8260B</td><td>MJH</td><td>HC5212</td></td<>	Surr: 1,2-Dichloroethane-d4 (67-138%)	81 %					50	03/28/11 17:20	SW846 8260B	MJH	HC5212
Surr. Dhromofluoromethame (75-125%) 100 % 1 0.3 28 11 13:-2 SWR-6 8208 AUH 11 (75.21 Surr. Dhromofluoromethame (75-125%) 91 % 1 0.3 28 11 13:-2 SWR-6 8208 AUH 11 (75.21 Surr. Dhromofluoromethame (75-129%) 91 % 1 0.3 28 11 13:-2 SWR-6 8208 AUH 11 (75.21 Surr. Tohume-dR (76-129%) 107 % 50 0.3 28 11 13:-2 SWR-6 8208 AUH 11 (75.21 Surr. Tohume-dR (76-129%) 107 % 50 0.3 28 11 13:-2 SWR-6 8208 AUH 11 (75.21) Surr. T-Afromofluorobenzene (67-147%) 371 % 2X 1 0.3 28 11 20:-37 SWR-6 8208 AUH 11 (75.21) Surr. T-Afromofluorobenzene (67-147%) 371 % 2X 1 0.328 11 20:-37 SWR-6 8208 AUH 11 (75.21) Surr. T-Afromofluorobenzene (67-147%) 99 % 2X 1 0.328 11 20:-37 SWR-6 8208 AUH 11 (75.21) Surr. Tohume-dR (76-129%) 114 2X 1 0.324 11 22:18 SWR-6 8208 AUH 11 (75.21) Surr. Tohume-dR (76-129%) 99 % 0.0173 0	Surr: 1,2-Dichloroethane-d4 (67-138%)	93 %					1000	03/28/11 20:57	SW846 8260B	MJH	11C5212
Surr: Dibromofilaromethane (75-125%) 81 % 50 0.3 28 /11 70:57 5898.68 2008 M./II 11 (05212) Surr: Dibromofilaromethane (75-125%) 93 % 2X 1 0.3 28 /11 70:57 5898.68 2008 M./II 11 (05212) Surr: Dibane-d8 (76-129%) 107 % 50 0.3 28 /11 70:57 5898.48 2008 M./II 11 (05212) Surr: Tohane-d8 (76-129%) 104 % 10000 0.3 28 /11 70:57 5898.48 2008 M./II 11 (0532) Surr: FJBromofilarobenzene (67-147%) 371 % ZX 1 0.3 28 /11 70:57 5898.48 2008 M./II 11 (0532) Surr: FJBromofilarobenzene (67-147%) 371 % ZX 1 0.3 28 /11 20:57 5898.48 2008 M./II 11 (0532) Surr: FJBromofilarobenzene (67-147%) 99 % 11 (0532) 50 0.3 28 /11 20:57 5898.48 2008 M./II 11 (0532) Surr: FJBromofilarobenzene (67-147%) 99 % 0.0173 0.0227 1 0.324/11 22:18 588.48 2000 M./II 11 (05212) Acthracene ND mg/kg dry 0.0173 0.0227 1 0.324/11 22:18 588.48 2000 K./	Surr: Dibromofluoromethane (75-125%)	100 %					1	03/28/11 13:42	SW846 8260B	MJH	11C5212
Surr: Dibromofluorenthane (75-123%) 93 % 1000 03 28 /11 20:57 SWR 6 2000 MJH 11/5212 Surr: Tollane-dK (76-129%) 107 % 2X 1 03 28 /11 20:57 SWR 6 2000 MJH 11/5212 Surr: Tollane-dK (76-129%) 107 % 50 03 28 /11 20:57 SWR 6 2000 MJH 11/5212 Surr: Tollane-dK (76-129%) 104 % 2X 1 03 28 /11 20:57 SWR 6 2000 MJH 11/5212 Surr: Tollane-dK (76-129%) 104 % 2X 1 03 28 /11 20:57 SWR 6 2000 MJH 11/5212 Surr: Tollane-dK (76-129%) 371 % 2X 1 03 28 /11 20:57 SWR 6 2000 MJH 11/5212 Surr: Tollane-dK (76-129%) 371 % 2X 1 03 28 /11 20:57 SWR 6 2000 MJH 11/5212 Surr: Tollane-dK (76-129%) 371 % 2X 1 03 28 /11 20:57 SWR 6 2000 MJH 11/5212 Surr: Tollane-dK (76-129%) 391 % 103 % 11 1052 % MJH 11/5212 Surr: Tollane-dK (76-129%) 99 % 2X 117.0 SWR 6 2700 <td< td=""><td>Surr: Dibromofluoromethane (75-125%)</td><td>81 %</td><td></td><td></td><td></td><td></td><td>50</td><td>03:28/11 17:20</td><td>SW846 8260B</td><td>MJH</td><td>HC5212</td></td<>	Surr: Dibromofluoromethane (75-125%)	81 %					50	03:28/11 17:20	SW846 8260B	MJH	HC5212
Surr: Toluane-dk (76-129%) 403 % ZX 1 03 28 /11 /3:42 SW846 82000 MJH 11 (5212) Surr: Toluane-dk (76-129%) 101 % 50 03 28 /11 /2:20 SW846 82000 MJH 11 (53 12) Surr: Foluane-dk (76-129%) 101 % 2X 1 03 28 /11 /2:20 SW846 82000 MJH 11 (53 12) Surr: Foluane-dk (76-129%) 37 /k ZX 1 03 28 /11 /2:20 SW846 82000 MJH 11 (53 12) Surr: Foluane-dk (76-147%) 37 /k ZX 1 03 28 /11 /2:20 SW846 82000 MJH 11 (53 12) Surr: Foluane-dk (76-147%) 99 % 1 03 28 /11 /2:20 SW846 82000 MJH 11 (53 12) Surr: Foluane-dk (76-147%) 99 % 13 /4 11 (53 12) SW846 8200 MJH 11 (53 12) Surr: Foluane-dk (76-147%) 99 % 100173 0.0827 1 03 24 /11 22.18 SW846 8200 KJP 11 (52 20 Accenaphthene ND mg/kg dry 0.0136 0.0827 1 03 24 /11 22.18 SW846 82700 KJP 11 (52 69 Benzo (a) anthracene	Surr: Dibromofluoromethane (75-125%)	93 %					1000	03:28/11 20:57	SW846 8260B	MJH	HC5212
Surr. Toluene-dk (76-129%) 107 % 50 0.3 28 /11 /2.57 SW846 8208 MJH 11/5212 Surr. Toluene-dk (76-129%) 104 % 1 0.3 28 /11 /2.57 SW846 8208 MJH 11/5212 Surr. Toluene-dk (76-129%) 371 % ZX 1 0.3 28 /11 /2.57 SW846 8208 MJH 11/5212 Surr. Toluene-dk (76-129%) 374 % ZX 1 0.3 28 /11 /2.57 SW846 8208 MJH 11/5212 Surr. Toluene-dk (76-129%) 99 % 10 00 0.3 28 /11 /2.57 SW846 8208 MJH 11/5212 Surr. Toluene-dk (76-129%) 99 % 10 00 0.3 28 /11 /2.57 SW846 8208 MJH 11/5212 Surr. Toluene-dk (76-129%) 99 % 10 00 0.3 28 /11 /2.57 SW846 8208 MJH 11/5212 Surr. Toluene-dk (76-129%) 99 % 0.0173 0.0827 1 0.324/11 22:18 SW846 8270 KJP 11/5249 Accenaphthylen ND mg/kg dry 0.0111 0.0827 1 0.324/11 22:18 SW846 8270 KJP 11/5269 Benzo (a) pyrene ND mg/kg dry 0.0111 <td>Surr: Toluene-d8 (76-129%)</td> <td>403 %</td> <td></td> <td>ZX</td> <td></td> <td></td> <td>1</td> <td>03/28/11 13:42</td> <td>SW846 8260B</td> <td>MJH</td> <td>HC5212</td>	Surr: Toluene-d8 (76-129%)	403 %		ZX			1	03/28/11 13:42	SW846 8260B	MJH	HC5212
Surr: Toluene-d8 (76-129%) 104 % 1000 03 28 /1 20:57 SW46 82608 M.H 11/C3212 Surr: +Bromofluorobenzene (67-147%) 371 % Zx 1 03 28 /11 7:20 SW46 82608 M.H 11/C3212 Surr: +Bromofluorobenzene (67-147%) 134 % 50 03 28 /11 7:20 SW46 82608 M.H 11/C3212 Surr: +Bromofluorobenzene (67-147%) 9% 200 03 28 /11 7:20 SW46 82608 M.H 11/C3212 Polyaromatic Hydrozarbons by EPA 8270D 200 03 28 /11 20:57 SW46 82700 K.P 11/C3269 Acenaphthene 1.76 mg/kg dry 0.0173 0.0827 1 03/24/11 22:18 SW46 82700 K.P 11/C3269 Acenaphthylene ND mg/kg dry 0.0111 0.0827 1 03/24/11 22:18 SW46 82700 K.P 11/C3269 Benzo (a) anthracene ND mg/kg dry 0.0111 0.0827 1 03/24/11 22:18 SW46 82700 K.P 11/C3269 Benzo (b) fluoranthene ND mg/kg dry 0.0136 0.0827 1 03/24/11 22:18 SW46 82700 K.P 11/C	Surr: Toluene-d8 (76-129%)	107 %					50	03/28/11 17:20	SW846 8260B	MJH	11C5212
Surr. +-Bromofluorobenzene (67-147%) 371 % ZX 1 0.3 28 /1 / 1.3.2 SW846 8200 MJH /// 1/5212 Surr. +-Bromofluorobenzene (67-147%) 134 % 50 0.3 28 /1 / 2.0.5 SW846 8200 MJH // 1/5212 Surr. +-Bromofluorobenzene (67-147%) 99 % 1000 0.3 28 /1 / 2.0.5 SW846 8200 MJH // 1/5212 Polyaromatic Hydrocarbons by EPA 8270D ND mg/kg dry 0.0173 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP I/C5269 Acenaphthylene ND mg/kg dry 0.013 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP I/C5269 Benzo (a) anthracene 0.6839 mg/kg dry 0.0136 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP I/C5269 Benzo (a) anthracene ND mg/kg dry 0.0136 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP I/C5269 Benzo (b) fluoranthene ND mg/kg dry 0.0460 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP I/C5269 Benzo (b) fluoranthene ND	Surr: Toluene-d8 (76-129%)	104 %					1000	03/28/11 20:57	SW846 8260B	MJH	HC5212
Surr. +-Bromofluorobenzene (67-147%) 134 % 50 0.3 28 /11 /2.05 SW846 8200 MJH 11/C5212 Surr. +-Bromofluorobenzene (67-147%) 99 % 1000 0.328 /11 /2.05 SW846 8200 MJH 11/C5212 Polyaromatic Hydrocarbons by EPA 8270D ND mg/kg dry 0.0173 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP 11/C5209 Acenaphthylene ND mg/kg dry 0.0111 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP 11/C5209 Anthracene ND mg/kg dry 0.0111 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP 11/C5269 Benzo (a) anthracene ND mg/kg dry 0.0131 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP 11/C5269 Benzo (b) fluoranthene ND mg/kg dry 0.0469 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP 11/C5269 Benzo (b) fluoranthene ND mg/kg dry 0.0469 0.0827 1 0.3/24/11 22:18	Surr: 4-Bromofluorobenzene (67-147%)	371 %		ZX			1	03/28/11 13:42	SW846 8260B	MJH	11C5212
Surr + Bromofluorobenzen (67-117%) 99% 1000 0.32.8:11 20:57 SW84 82800 MJI 11C3212 Polyaromatic Hydrocarbons by EPA 8270D Acenaphthene 1.76 mg/kg dry 0.0173 0.0827 1 0.3/24/11 22:18 SW84 82700 KJP IIC5269 Acenaphthylene ND mg/kg dry 0.0111 0.0827 1 0.3/24/11 22:18 SW84 82700 KJP IIC5269 Anthracene ND mg/kg dry 0.0111 0.0827 1 0.3/24/11 22:18 SW84 82700 KJP IIC5269 Benzo (a) anthracene 0.0839 mg/kg dry 0.0197 0.0827 1 0.3/24/11 22:18 SW84 82700 KJP IIC5269 Benzo (a) prene ND mg/kg dry 0.0097 0.827 1 0.3/24/11 22:18 SW84 82700 KJP IIC5269 Benzo (b, fluoranthene ND mg/kg dry 0.011 0.0827 1 0.3/24/11 22:18 SW84 8270 KJP IIC5269 Benzo (b, fluoranthene ND mg/kg dry 0.0185	Surr: 4-Bromofluorobenzene (67-147%)	134 %					50	03/28/11 17:20	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 SW34 8270D KJP IIC5269 Acenaphthylene ND mg/kg dry 0.0171 0.0827 1 03/24/11 22:18 SW34 8270D KJP IIC5269 Anthracene ND mg/kg dry 0.0136 0.0827 1 03/24/11 22:18 SW346 8270D KJP IIC5269 Benzo (a) anthracene 0.0839 mg/kg dry 0.0136 0.0827 1 03/24/11 22:18 SW346 8270D KJP IIC5269 Benzo (a) anthracene ND mg/kg dry 0.00987 0.0827 1 03/24/11 22:18 SW346 8270D KJP IIC5269 Benzo (b) fluoranthene ND mg/kg dry 0.011 0.0827 1 03/24/11 22:18 SW346 8270D KJP IIC5269 Benzo (b) fluoranthene ND mg/kg dry 0.0185 0.0827 1 03/24/11 22:18 SW346 8270D KJP IIC5269 Dibenz (a,h) anthr	Surr: 4-Bromofluorobenzene (67-147%)	99 %					1000	03/28/11 20:57	SW846 8260B	MJH	11C5212
Acenaphthene 1.76 mg/kg dry 0.0173 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP HIC5269 Acenaphthylene ND mg/kg dry 0.0247 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP HIC5269 Anthracene ND mg/kg dry 0.0111 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP HIC5269 Benzo (a) anthracene 0.0639 mg/kg dry 0.0136 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP HIC5269 Benzo (a) pyrene ND mg/kg dry 0.00987 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP HIC5269 Benzo (b) fluoranthene ND mg/kg dry 0.0469 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP HIC5269 Benzo (b) fluoranthene ND mg/kg dry 0.0185 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP HIC5269 Chrysene 0.134 mg/kg dry 0.0136	Polyaromatic Hydrocarbons by EPA	8270D									
Acenaphthylene ND mg/kg dry 0.0247 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP 11C5269 Anthracene ND mg/kg dry 0.0111 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP 11C5269 Benzo (a) anthracene 0.0639 mg/kg dry 0.0136 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP 11C5269 Benzo (a) pyrene ND mg/kg dry 0.0469 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP 11C5269 Benzo (a) pyrene ND mg/kg dry 0.0469 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP 11C5269 Benzo (a), i, j perylene ND mg/kg dry 0.0456 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP 11C5269 Benzo (k) fluoranthene ND mg/kg dry 0.0185 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP 11C5269 Dibenz (a, h) anthracene ND mg/kg dry	Acenaphthene	1.76		mg/kg dry	0.0173	0.0827	1	03/24/11 22:18	SW846 8270D	KJP	11C5269
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 (a) pyrene ND mg/kg dry 0.0469 0.0827 1 03/24/11 22:18 SW846 8270D KJP 11C5269 Benzo (b) fluoranthene 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 Dibenz (a,h) anthracene ND mg/kg dry 0.0185 0.0827 1 03/24/11 22:18 SW846 8270D KJP 11C5269 Dibenz (a,h) anthracene ND mg/kg dry 0.0136 <td< td=""><td>Acenaphthylene</td><td>ND</td><td></td><td>mg/kg dry</td><td>0.0247</td><td>0.0827</td><td>1</td><td>03/24/11 22:18</td><td>SW846 8270D</td><td>КЈР</td><td>11C5269</td></td<>	Acenaphthylene	ND		mg/kg dry	0.0247	0.0827	1	03/24/11 22:18	SW846 8270D	КЈР	11C5269
Benzo (a) anthracene 0.0839 mg/kg dry 0.0136 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP 11C5269 Benzo (a) pyrene ND mg/kg dry 0.00987 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP 11C5269 Benzo (a) pyrene ND mg/kg dry 0.0469 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP 11C5269 Benzo (a), i) perylene ND mg/kg dry 0.0456 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP 11C5269 Benzo (k) fluoranthene ND mg/kg dry 0.0382 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP 11C5269 Dibenz (a,h) anthracene ND mg/kg dry 0.0136 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP 11C5269 Dibenz (a,h) anthracene ND mg/kg dry 0.0136 0.0827 1 0.3/24/11 22:18 SW846 82700 KJP 11C5269 Iudeno (1,2,3-cd) pyrene ND m	Anthracene	ND		mg/kg dry	0.0111	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 82700 KJP 11C5269 Benzo (b) fluoranthene ND mg/kg dry 0.0469 0.0827 1 03/24/11 22:18 SW846 82700 KJP 11C5269 Benzo (b) fluoranthene ND mg/kg dry 0.0111 0.0827 1 03/24/11 22:18 SW846 82700 KJP 11C5269 Benzo (k) fluoranthene ND mg/kg dry 0.0456 0.0827 1 03/24/11 22:18 SW846 82700 KJP 11C5269 Chrysene 0.134 mg/kg dry 0.0382 0.0827 1 03/24/11 22:18 SW846 82700 KJP 11C5269 Dibenz (a,h) anthracene ND mg/kg dry 0.0185 0.0827 1 03/24/11 22:18 SW846 82700 KJP 11C5269 Fluoranthene ND mg/kg dry 0.0136 0.0827 1 03/24/11 22:18 SW846 82700 KJP 11C5269 Indeno (1,2,3-cd) pyrene ND mg/kg dry <td< td=""><td>Benzo (a) anthracene</td><td>0.0839</td><td></td><td>mg/kg dry</td><td>0.0136</td><td>0.0827</td><td>1</td><td>03/24/11 22:18</td><td>SW846 8270D</td><td>KJP</td><td>11C5269</td></td<>	Benzo (a) anthracene	0.0839		mg/kg dry	0.0136	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 0.0185 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 Fluoranthene ND mg/kg dry 0.0247 0.0827 1 03/24/11 22:18 SW846 8270D KJP 11C5269 Fluorene ND mg/kg dry 0.0382	Benzo (a) pyrene	ND		mg/kg dry	0.00987	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 0.0136 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 Fluoranthene ND mg/kg dry 0.0247 0.0827 1 03/24/11 22:18 SW846 8270D KJP 11C5269 Fluorene ND mg/kg dry 0.0382 0.0827 1 03/24/11 22:18 SW846 8270D KJP 11C5269 Indeno (1,2,3-cd) pyrene ND mg/kg dry 0.0382	Benzo (b) fluoranthene	ND		mg/kg dry	0.0469	0.0827	1	03/24/11 22:18	SW846 8270D	KJP	11C5269
Benzo (k) fluorantheneNDmg/kg dry0.04560.0827103/24/11 22:18SW846 8270DKJP11C5269Chrysene0.134mg/kg dry0.03820.0827103/24/11 22:18SW846 8270DKJP11C5269Dibenz (a,h) anthraceneNDmg/kg dry0.01850.0827103/24/11 22:18SW846 8270DKJP11C5269FluorantheneNDmg/kg dry0.01360.0827103/24/11 22:18SW846 8270DKJP11C5269FluoreneNDmg/kg dry0.02470.0827103/24/11 22:18SW846 8270DKJP11C5269Indeno (1,2,3-cd) pyreneNDmg/kg dry0.03820.0827103/24/11 22:18SW846 8270DKJP11C5269Naphthalene14.3mg/kg dry0.1730.8271003/25/11 23:53SW846 8270DKJP11C5269Pyrene1.04mg/kg dry0.1230.8271003/25/11 23:53SW846 8270DKJP11C52691-Methylnaphthalene30.1mg/kg dry0.1480.8271003/25/11 23:53SW846 8270DKJP11C52692-Methylnaphthalene43.3mg/kg dry0.1480.8271003/25/11 23:53SW846 8270DKJP11C5269Surr: Terphenyl-d14 (18-120%)81 %1.304.135003/26/11 00:15SW846 8270DKJP11C5269	Benzo (g,h,i) pervlene	ND		mg/kg dry	0.0111	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 0.0185 0.0827 1 03/24/11 22:18 SW846 8270D KJP 11C5269 Fluoranthene 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 0.0382 0.0827 1 03/24/11 22:18 SW846 8270D KJP 11C5269 Pyrene 14.3 mg/kg dry 0.173 0.827 10 03/25/11 23:53 SW846 8270D KJP 11C5269 Pyrene 1.04 mg/kg dry 0.123 0.827 10 03/24/11 22:18 SW846 8270D KJP 11C5269 1-	Benzo (k) fluoranthene	' ND		mg/kg dry	0.0456	0.0827	1	03/24/11 22:18	SW846 8270D	KJP	11C5269
Diberz (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 Fluoranthene ND mg/kg dry 0.0247 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 Pyrene 1.04 mg/kg dry 0.123 0.827 10 03/24/11 22:18 SW846 8270D KJP 11C5269 1-Methylnaphthalene 30.1 mg/kg dry 0.123 0.827	Chrysene	0.134		mg/kg dry	0.0382	0.0827	1	03/24/11 22:18	SW846 8270D	KJP	11C5269
ND ng/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 03/24/11 22:18 SW846 8270D KJP 11C5269 Pyrene 1.04 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 Pyrene 1.04 mg/kg dry 0.123 0.827 10 03/25/11 23:53 SW846 8270D KJP 11C5269 2-Methylnaphthalene 30.1	Dibenz (a,h) anthracene	ND		mg/kg dry	0.0185	0.0827	1	03/24/11 22:18	SW846 8270D	KJP	11C5269
Fluorene ND ng/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 0.0284 0.0827 1 03/24/11 22:18 SW846 8270D KJP 11C5269 2-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 <t< td=""><td>Fluoranthene</td><td>ND</td><td></td><td>mg/kg dry</td><td>0.0136</td><td>0.0827</td><td>1</td><td>03/24/11 22:18</td><td>SW846 8270D</td><td>KJP</td><td>11C5269</td></t<>	Fluoranthene	ND		mg/kg dry	0.0136	0.0827	1	03/24/11 22:18	SW846 8270D	KJP	11C5269
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 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 03/24/11 22:18 SW846 8270D KJP 11C5269 2-Methylnaphthalene 43.3 mg/kg dry 1.130 4.13 50 03/26/11 00:15 SW846 8270D KJP 11C5269 Surr: Terphenyl-d14 (18-120%) 81 % 1.00 4.13 50 03/26/11 00:15	Fluorene	ND		mg/kg dry	0.0247	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 1.148 0.827 10 03/25/11 23:53 SW846 8270D KJP 11C5269 Surr: Terphenyl-d14 (18-120%) 81 % 81 % 1.30 4.13 50 03/26/11 00:15 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
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 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 % 14 130 4.13 50 03/26/11 00:15 SW846 8270D KJP 11C5269	Naphthalene	14.3		mg/kg dry	0.173	0.827	10	03/25/11 23:53	SW846 8270D	KJP	11C5269
Indiantified Indiantified 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	Phenanthrene	9.16		mg/kg dry	0,123	0.827	10	03/25/11 23:53	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	Pyrene	1.04		mg/kg dry	0.0284	0.0827	1	03/24/11 22:18	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	1-Methylnaphthalene	30.1		mg/kg dry	0.148	0.827	10	03/25/11 23:53	SW846 8270D	KJP	11C5269
Surr: Terphenyl-d14 (18-120%) 81 % 1 03/24/11 22-18 SW846 8270D K.IP 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%		-			,	03/24/11 22-18	SW846 8270D	KIP	11C5269

THE LEADER IN ENVIRONMENTAL TESTING

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC3441
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/19/11 08:15

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUC3441-01 (1034 I	Foxglove - Soi	il) - cont.	Sampled:	03/14/11 11	:45					
Polyaromatic Hydrocarbons by EPA	8270D - cont.	,	•							
Surr: 2-Fluorobiphenyl (14-120%)	7 9 %					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 I General Chemistry Parameters	Heather - Soil) Sample	ed: 03/14/1	1 16:30						
% Dry Solids	80.8		%	0.500	0.500	1	03/30/11 14:37	SW-846	AMS	11C7014
Volatile Organic Compounds by EPA	A Method 8260	в								
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	Е	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

THE LEADER IN ENVIRONMENTAL TESTING

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC3441
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/19/11 08:15

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUC3441-03 (1146 II	ris - Soil) Sam	pled: 0.	3/15/11 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 8260E	3								
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	\$W846 8260B	MJH	11C5212
Surr: 1,2-Dichloroethane-d4 (67-138%)	90 %					-	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 %					, ,	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) pervlene	ND		mg/kg dry	0.0108	0.0802	1	03/24/11 23:02	SW846 8270D	KJP	HC5269
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	I	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 %					-	03 24 11 23:02	SW846 8270D	K.JP	11C5269
Surr: 2-Fluorobiphenyl (14-120%)	57 %					,	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

THE LEADER IN ENVIRONMENTAL TESTING

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC3441
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/19/11 08:15

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUC3441-04 (1142	lris - Soil) Sam	pled: 03	8/15/11 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 EP	A Method 8260H	3								
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	МЈН	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	11C 5 212
Surr: 4-Bromofluorobenzene (67-147%)	421 %	Z	r			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	11C 526 9
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

THE LEADER IN ENVIRONMENTAL TESTING

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC3441
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/19/11 08:15

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUC3441-05 (1124	Iris - Soil) San	pled: 0	3/16/11 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 FP	A Method 8260	a								
Pangana	0.0396		mg/kg dry	0.00107	0.00194	1	03/28/11 15:47	SW846 8260B	МЈН	11C5212
Benzene	5.44		mg/kg drv	0.00107	0.00194	50	03/28/11 13:47	SW846 8260D	млн	11C5212
Ethyloenzene	33.8	ы	mo/ko drv	0.0497	5.07	1000	03/28/11 18:55	SW846 9260D	MIH	1105212
	ND	ы	mg/kg drv	1.75	5.07	1000	03/28/11 19:24	SW040 0200D	млн	11C5212
1 oluene	6.04		mo/ko drv	0.0432	0.101	50	03/28/11 18:53	SW846 8260D	мін	1105212
Xylenes, total	07 %		ing kg uly	0.0964	0.254	50	03/28/11 18:53	5 W 840 8200B		
Surr: 1,2-Dichloroethane-d4 (67-138%)	82 %					1	03/28/11 15:4/	SW840 8200B	MJH	1103212
Surr: 1,2-Dichloroethane-d4 (67-138%)	93%					50	03/28/11 10:53	SW840 8200B	MJH	1105212
Surr: Dibromofluoromethane (75-125%)	97%					1000	03/28/11 19:24	SW8 (6 82600	MJH	1105212
Surr: Dibromofluoromethane (75-125%)	80%					1	03:28/11 13:47	SW9 16 9260D		110.5212
Surr: Dibromofluoromethane (75-125%)	92 %					50	03-28-11 18.55	SWR 16 87608	MIH	1105212
Surr: Toluene-d8 (76-129%)	552 %	7	Y			,	03-28 11 15-17	SW816 8760B	MIH	1105212
Surr: Toluene-d8 (76-129%)	113 %		л			50	03/28/11 18:53	SW8.16 8760B	MIH	1105212
Surr: Toluene-d8 (76-129%)	104 %					1000	03/28/11 19:24	SW846 8260B	мін	11C5212
Surr: 4-Bromofluorobenzene (67-147%)	267 %	7	X			1000	03-28-11-15-17	SW816 8260B	мін	1105212
Surr: 4-Bromofluorobenzene (67-147%)	133 %					50	03-28/11 18:53	SW846 8260B	MIH	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	КJР	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	КЈР	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		03/24/11 23:46	SW846 8270D	KJP	11C5269
Benzo (a h i) pervlene	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	i	03/24/11 23:46	SW846 8270D	KJP	11C5269
Chrysene	0.0860		mg/kg dry	0.0368	0.0796	ł	03/24/11 23:46	SW846 8270D	KJP	11C5269
Dihang (a h) anthrasana	ND		mg/kg dry	0.0178	0.0796	1	03/24/11 23:46	SW846 8270D	KJP	11C5269
Eluoranthene	0.219		mg/kg dry	0.0131	0.0796	1	03/24/11 23:46	SW846 8270D	KJP	11C5269
Fluorana	3.21		mg/kg dry	0.0738	0.0796	1	03/24/11 23:46	SW846 8270D	KJP	11C5269
	ND		mg/kg drv	0.0258	0.0796	1	03/24/11 23:46	SW846 8770D	KJP	11C5269
Nachthalana	12.1		mg/kg drv	0.0308	0.0790	1	03/24/11 23:40	SW846 8270D	KJP	11C5269
Naphinalene	10.8		mø/kø dry	0.100	0.790	10	03/26/11 01:44	SW846 8270D	KIP	11C5269
Processo	0.618		mg/kg drv	0.0173	0.790	10	02/24/11 22:44	SW846 8270D	KJP	11C5269
Pyrene	30 5		mo/kodru	0.0273	0.0796	1	03/24/11 23:46	SW 840 82 /UD	KIP	11C5269
	44.4		mø/ka dru	0.143	0.790	10	03/20/11 01:44	SW040 8270D	KIP	11C5269
2-Methyinaphthalene	02 0%			0.499	1.39	20	03/20/11 02:07	SW 840 8270D	<i>K</i> 10	1105207
Sur. 10 phonys-417 (10=12070)	10					1	05 24 11 25:40	SW84082/0D	лјр	110.3209



Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC3441
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/19/11 08:15

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



Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC3441
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	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 8270	D						
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 Me	thod 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

THE LEADER IN ENVIRONMENTAL TESTING

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC3441
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/19/11 08:15

PROJECT QUALITY CONTROL DATA Blank									
Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time			
Volatile Organic Compounds by	EPA Method 8260B								
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 F	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)	Work Order:	NUC3441
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	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	y EPA 8270D					
11C5269-BLK1						
Surrogate: Terphenyl-d14	80%			11C5269	11C5269-BLK1	03/24/11 17:53
Surrogate: 2-Fluorobiphenyl	79%			11C5269	11C5269-BLK1	03/24/11 17:53
Surrogate: Nitrohenzene-d5	75%			11C5269	11C5269-BLK1	03/24/11 17:53



Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC3441
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	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



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

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC3441
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	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 El	PA 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 EP	PA 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	11C 52 69	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	
Рутепе	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)	Work Order:	NUC3441
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	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 E	PA Method 8260	B								
11C5212-MS1										
Benzene	ND	54.5		ug/kg	50.0	109%	42 - 141	11C 5212	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	11C 52 12	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

THE LEADER IN ENVIRONMENTAL TESTING

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

10179 Highway 78 Project Name: Laurel Bay Housing Project Number: Ladson, SC 29456 Project Number: [none]	Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC3441
Ladson, SC 29456 Project Number: [none]		10179 Highway 78	Project Name:	Laurel Bay Housing Project
The M-FL and 02/10/11 00 15		Ladson, SC 29456	Project Number:	[none]
Attn Tom MCElwee Received: 03/19/11 08:15	Attn	Tom McElwee	Received:	03/19/11 08:15

		PR	OJECI	QUALITY Matrix S	CONI pike Du	FROL E P	DATA					
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 8	3260B										
11C5212-MSD1 Benzene	ND	46.1		ug/kg	50.0	92%	42 - 141	17	50	11C5212	NUC3441-02R	03/28/11 21:59
Ethylbenzene	31.5	62.8		ug/kg	50.0	63%	21 - 165	3	50	11C5212	NUC3441-02R	03/28/11 21:59
Naphthalene	360	64.6	M8	ug/kg	50.0	-590%	10 - 160	1	50	11C5212	NUC3441-02R F1	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 F1	03/28/11 21:59
Surrogate: 1,2-Dichloroethane-d4		39.6		ug/kg	50.0	79%	67 - 138			11C5212	NUC3441-02R F1	03/28/11 21:59
Surrogate: Dibromofluoromethane		40.6		ug/kg	50.0	81%	75 - 125			11C5212	NUC3441-02R	03/28/11 21:59
Surrogate: Toluene-d8		51.8		ug/kg	50.0	104%	76 - 129			11C5212	NUC3441-02R	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)	Work Order:	NUC3441
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/19/11 08:15

CERTIFICATION SUMMARY

TestAmerica Nashville					
Method	Matrix	AIHA	Nelac	South Carolina	
SW846 8260B	Soil	N/A	Х	Х	
SW846 8270D	Soil		х	х	
SW-846	Soil				

<u>TestAmerica</u>

THE LEADER IN ENVIRONMENTAL TESTING

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC3441
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	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

NU	JC3441		

04/04/11 23:59

TestAmer	ica	Nashville 2960 Fost Nashville,	Divisio er Crei TN 37	on ighto 204	'n			T	Ph 'oll f	one: Free: Fax:	61: 800 61:	5-726)-785 5-726	-017 -098 -340	7 10 14							To as meth regul	sistus xds, is 1 story pt	in usin ihis wa Irpose	ng the ork bei is?	ng con	r analyl Iducted	tical \$ for							
Client Name/Account #:	EEG # 2449			<u> </u>																				Comp	liance	Monito	oring	?	Yes		No			
Address:	10179 Highway	78									<u>.</u>													Enfo	rceme	ent Acti	ion?		Yes.	<u></u>	, No		,	
City/State/Zip:	Ladson, SC 294	156														-			Site S	Stato:	SC													
Project Manager:	Tom McElwee	meil: mcetw	00000	ginc.r	net				<u></u>								-			PO# :		10:	<u>2 /</u>)										
Telephone Number:	843.412.2097					F	ax N	o.:({	34	13/	8	79	-0	140	21		-		TA Que	ote #:														
Sampler Name: (Print)	JOME	ES BA	JId	L)	5								_				_		Proje	ct ID:	Laure	Bay H	lousin	y Proj	ect									
Sempler Signature:	Dam	es B	ald	Au	en						•	\leq	>				-		Proje	ect #:														
	0								Pres	serval	live		91		м	atrix								Analyz	e For:									7
Sample 1D/Deacription 1034 Forglove 1081 Heather 1148 Fris 1142 Iris 1124 Tris	21-1/11 3/1-1/11 3/1-1/11 3/1-5/11 3/1-5/11 3/1-6/11	1145 1145 100 100 100 100 100	y w w of Containers Shipped	X X X X Grab	Composite	Field Filtered	2	HINO, (Red Label)	View States and the A A A A A	H-SO4 Plastic (Yellow Label)	H ₃ SO ₄ Glass(Yellow Label)	NUN N Non (Back Leber)		Groundwaller	Drinking Water	Siudge	X X X X 88	Other (specify):	× * * * * * * BTEX + Napth - 8260	X X X X PAH - 8270D								- 3++	11 01 02 63 64 65		RUSH TAT (Pre-Schedule	Standard TAT	Fax Results	and QC with report
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Special Instructions:		· · · · · · · · · · · · · · · · · · ·					Met	hod	ol Bi	ipm	4.						FE	EDE	x		Lab	Tem VOC	Com peratu s Free	m ents ire Upi e of He	: on Rec adspe	ceipt: ace?	Û	;e			Y		N	•
Relinquished by: Pames Palluin Relinquished by	Date 3-17-1 Date 3/1/		Tim 18:0 Tim	10 30 10	Rece Rece	ived b	y Ter	STARTN D		J				+	3/	ate 17/			Time															
the second secon	2/10/	<u> </u>	(10		ľ	i	N	X	<u>}</u>					3	• (4	- 11		2	0815		J													

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ATTACHMENT A

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NON-HAZARDOUS MANIFEST	S US EPA ID No.	Manifest Do	DC NO.	2. Page 1	of			
3. Generator's Mailing Address: MCAS, BEAUFORT LAUREL BAY HOUSING	Generator's Site Ad	ddress (If different that	n mailing):	A. Manife	est Number MNA B. State of	00310 Generator's	5808	
BEAUFORT, SC 29907 4. Generator's Phone 843-228-6461								
5. Transporter 1 Company Name EEG, INC.	6.	US EPA ID Numbe		C. State T	ransporter's l	D		
7. Transporter 2 Company Name	8.	US EPA ID Numbe		D. Transp E. State T	ransporter's Il	843-0 D	879-041	
9. Designated Facility Name and Site Address HICKORY HILL LANDFILL 2621 LOW COUNTRY ROAD RIDGELAND, SC 29936	10.	US EPA ID Numb	er	G. State F	acility ID acility Phone	843-	987-464	13
11. Description of Waste Materials	all in the second	12	Containers	13. Total	14. Unit	1.1	Aisc. Comme	ents
a. HEATING OIL TANKS FILLED WITH SAND		NO.	day	Quantity	wt./voi.			1.
b.		-			-		William .	1
WM Profile #		and the second					1.21	
WM Profile # d.	Participant and	1			and the			
WM Profile #	und Part	K Dist		125.121	1222	LE.	Nug Y	11
J. Additional Descriptions for Materials Listed Abov		Cell		-		Level	Le nue	
15. Special Handling Instructions and Additional Info	mation 394 Acor N-	-21 4)102	14 Foxg	lour /	6) 114	6 IR	isr	
JZZY YPRESS 23 Purchase Order #	98 ACORN EMERG	SENCY CONTACT / F	HONE NO .:	ther v	Contraction Contraction	Section 1	-	
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials ar	e not hazardous waste	s as defined by CFI	R Part 261 or	any applicabl	e state law, h	ave been fu	Illy and	
Printed Name	Signature	"On behalf of"	We ap	plicable regu	lations.	Month	Day	Ye
17. Transporter 1 Acknowledgement of Receipt of M Printed Name	aterials Signature	R	0.0			Month	Day	Y
18. Transporter 2 Acknowledgement of Receipt of M	aterials	mer bi	aldu			1.5		
rinted Name	Signature			The ar		Month	Uay	1
19. Certificate of Final Treatment/Disposal certify, on behalf of the above listed treatment facili applicable laws, regulations, permits and licenses on I	ty, that to the best of r the dates listed above.	my knowledge, the	above-descri	bed waste w	as managed in	n complian	ce with al	1
20. Facility Owner or Operator: Certification of recei	pt of non-hazardous m	aterials covered by	this manifes	t.		Month	Dav	Tv
Printed Name	Commanda and					INTO DI D	Udv	1 10

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Appendix C Laboratory Analytical Report - Initial Groundwater



Client: AECOM - Resolution	on Consultants						Laboratory ID:	QK20097	-007		
Description: BEALB1034TW02V	VG20151119						Matrix:	Aqueous			
Date Sampled:11/19/2015 1405											
Date Received: 11/20/2015											
RunPrep Method15030B	Analytical Method 8260B	Dilution 1	Analysis 12/01/20	5 Date Analyst 15 2006 ALL	Prep	Date	Batch 91002				
Parameter		Nur	CAS nber	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzene		71-	43-2	8260B	0.45	U	5.0	0.45	0.21	ug/L	1
Ethylbenzene		100-	41-4	8260B	1.8	J	5.0	0.51	0.21	ug/L	1
Naphthalene		91-	20-3	8260B	26	в	5.0	0.96	0.14	ug/L	1
Toluene		108-	88-3	8260B	0.48	U	5.0	0.48	0.24	ug/L	1
Xylenes (total)		1330-	20-7	8260B	2.8	J	5.0	0.57	0.32	ug/L	1
Surrogate	Q %	Run 1 Recovery	Acceptane Limits	ce S							
Bromofluorobenzene		101	75-120								
1,2-Dichloroethane-d4		106	70-120								
Toluene-d8		104	85-120								
Dibromofluoromethane		105	85-115								

PQL = Practical quantitation limitB = Detected in the method blankE = Quantitation of compound exceeded the calibration rangeH = Out of holding timeQ = Surrogate failureND = Not detected at or above the MDLJ = Estimated result < PQL and \geq MDLP = The RPD between two GC columns exceeds 40%N = Recovery is out of criteriaL = LCS/LCSD failureWhere applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"S = MS/MSD failure

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

Client: AECOM - R	esolution Consultants
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Description: BEALB1034TW02WG20151119

Laboratory ID: QK20097-007

Date Sampled:11/19/2015 1405

Matrix: Aqueous

Date Received: 11/20/2015

RunPrep Method13520C	Analytical Method 8270D (SIM)	Dilution Analy 1 12/04	y sis Date Analyst /2015 0017 RBH	Prep 11/24/2	Date 015 16	Batch 15 90443			
Parameter		CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units Run
Benzo(a)anthracene		56-55-3	8270D (SIM)	0.040	U	0.20	0.040	0.019	ug/L 1
Benzo(b)fluoranthene		205-99-2	8270D (SIM)	0.040	U	0.20	0.040	0.019	ug/L 1
Benzo(k)fluoranthene		207-08-9	8270D (SIM)	0.040	U	0.20	0.040	0.024	ug/L 1
Chrysene		218-01-9	8270D (SIM)	0.040	U	0.20	0.040	0.021	ug/L 1
Dibenzo(a,h)anthracene		53-70-3	8270D (SIM)	0.080	U	0.20	0.080	0.040	ug/L 1
Surrogate	F Q % R(Run 1 Accept ecovery Lir	ance nits						
2-Methylnaphthalene-d10		86 15-1	139						
Fluoranthene-d10		32 23-2	154						

PQL = Practical quantitation limitB = Detected in the method blankE = Quantitation of compound exceeded the calibration rangeH = Out of holding timeQ = Surrogate failureND = Not detected at or above the MDLJ = Estimated result < PQL and \geq MDLP = The RPD between two GC columns exceeds 40%N = Recovery is out of criteriaL = LCS/LCSD failureWhere applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"S = MS/MSD failureS = MS/MSD failure

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Appendix D Laboratory Analytical Report – Permanent Well Groundwater



Volatile Organic Compounds by GC/MS

Volatie Organio Compounds by Comio									
Client: AECOM - Res	solution Consultants			Laboratory ID: SC25010-021					
Description: BEALB1034N	IW01WG20170324			Ma	trix: Aqueou	s			
Date Sampled:03/24/2017 14	425								
Date Received: 03/25/2017									
RunPrep Method15030B	Analytical Method Dilution Analy 8260B 1 03/29/	vsis Date Analys 2017 0344 ECP	t Prep I	Date Batch 38260					
	CAS	Analytical							
Parameter	Number	Method	Result	Q LOQ	LOD	DL	Units	Run	
Benzene	71-43-2	8260B	0.80	U 1.0	0.80	0.40	ug/L	1	
Ethylbenzene	100-41-4	8260B	0.80	U 1.0	0.80	0.40	ug/L	1	
Naphthalene	91-20-3	8260B	1.5	1.0	0.80	0.40	ug/L	1	
Toluene	108-88-3	8260B	0.80	U 1.0	0.80	0.40	ug/L	1	
Xylenes (total)	1330-20-7	8260B	0.80	U 1.0	0.80	0.40	ug/L	1	
Surrogate	Run 1 Accepta Q % Recovery Lin	ance nits							

Bromofluorobenzene	99	85-114	
Dibromofluoromethane	99	80-119	
1,2-Dichloroethane-d4	87	81-118	
Toluene-d8	95	89-112	

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

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Semivolatile Organic Compounds by GC/MS

Client: AECOM - Resolution Consultants

Description: BEALB1034MW01WG20170324

Laboratory ID: SC25010-021

Date Sampled:03/24/2017 1425

Matrix: Aqueous

Date Received: 03/25/2017

Run Prep Method	Analytical Method	Dilution Analys	sis Date Analyst	Prep	Date	Batch			
1 3520C	8270D	1 04/05/2	2017 1950 RBH	03/31/2	2017 1208	38541			
		CAS	Analytical						
Parameter		Number	Method	Result	Q	LOQ	LOD	DL	Units Run
Benzo(a)anthracene		56-55-3	8270D	0.10	U	0.20	0.10	0.040	ug/L 1
Benzo(b)fluoranthene		205-99-2	8270D	0.10	U	0.20	0.10	0.040	ug/L 1
Benzo(k)fluoranthene		207-08-9	8270D	0.10	U	0.20	0.10	0.040	ug/L 1
Chrysene		218-01-9	8270D	0.10	U	0.20	0.10	0.040	ug/L 1
Dibenzo(a,h)anthracene		53-70-3	8270D	0.10	U	0.20	0.10	0.040	ug/L 1
Surrogate	F Q%R	Run 1 Accepta ecovery Lim	ince its						
Nitrobenzene-d5		74 44-12	20						
2-Fluorobiphenyl		72 44-11	19						
Terphenyl-d14		79 50-13	34						

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

Volatile Organic Compounds by GC/MS

Description: BEALB1034MW01WG20170324-d

Laboratory ID: SC25010-022 Matrix: Aqueous

Date Sampled:03/24/2017 1430

Date Received: 03/25/2017 Dilution Analysis Date Analyst **Run Prep Method** Analytical Method **Prep Date** Batch 5030B 8260B 03/29/2017 0406 ECP 38260 1 1 CAS Analytical Parameter Result Q LOQ LOD DL Units Run Number Method Benzene 71-43-2 8260B 0.80 U 1.0 0.80 0.40 ug/L 1 Ethylbenzene 8260B ug/L 100-41-4 0.80 U 0.80 0.40 1.0 1 Naphthalene 91-20-3 8260B 0.80 U 1.0 0.80 0.40 ug/L 1 ug/L Toluene 108-88-3 8260B 0.80 U 1.0 0.80 0.40 1 Xylenes (total) 1330-20-7 8260B 0.80 U 0.80 0.40 ug/L 1.0 1 Run 1 Acceptance Surrogate Q % Recovery Limits Bromofluorobenzene 101 85-114 Dibromofluoromethane 103 80-119 92 1,2-Dichloroethane-d4 81-118 Toluene-d8 98 89-112

PQL = Practical quantitation limitB = Detected in the method blankE = Quantitation of compound exceeded the calibration rangeH = Out of holding timeQ = Surrogate failureND = Not detected at or above the MDLJ = Estimated result < PQL and ≥ MDL</td>P = The RPD between two GC columns exceeds 40%N = Recovery is out of criteriaL = LCS/LCSD failureWhere applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"S = MS/MSD failureS = MS/MSD failure

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Semivolatile Organic Compounds by GC/MS

Client: AECOM - Resolution Consultants

Description: BEALB1034MW01WG20170324-d

Laboratory ID: SC25010-022

Date Sampled:03/24/2017 1430

Matrix: Aqueous

Date Received: 03/25/2017

Run Prep Method	Analytical Method D	Dilution Analys	is Date Analyst	Prep	Date	Batch			
1 33200	8270D	1 04/05/20	DT7 2015 KBH	03/31/2	017 1206	30341			
_		CAS	Analytical		_				
Parameter		Number	Method	Result	Q	LOQ	LOD	DL	Units Run
Benzo(a)anthracene		56-55-3	8270D	0.10	U	0.20	0.10	0.040	ug/L 1
Benzo(b)fluoranthene		205-99-2	8270D	0.10	U	0.20	0.10	0.040	ug/L 1
Benzo(k)fluoranthene		207-08-9	8270D	0.10	U	0.20	0.10	0.040	ug/L 1
Chrysene		218-01-9	8270D	0.10	U	0.20	0.10	0.040	ug/L 1
Dibenzo(a,h)anthracene		53-70-3	8270D	0.10	U	0.20	0.10	0.040	ug/L 1
Surrogate	Rı Q%Re	un 1 Acceptai covery Limi	nce ts						
Nitrobenzene-d5		67 44-12	0						
2-Fluorobiphenyl		66 44-11	9						
Terphenyl-d14		84 50-13	4						

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

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Appendix E Regulatory Correspondence





Catherine E. Heigel, Director Promoting and protecting the health of the public and the environment

July 1, 2015

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

RE: 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 <u>et seq.</u>, 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,

that M. They

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

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL 2600 Bull Street • Columbia, SC 29201 • Phone: (803) 898-3432 • www.scdhec.gov 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



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 <u>petruslb@dhec.sc.gov</u> or 803-898-0294.

Sincerely,

NETS

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)

Permanent Monitoring Well Investigation recommendation (15 addresses)	
130 Banyan Drive	473 Dogwood Drive
256 Beech Street	747 Blue Bell Lane
285 Birch Drive	749 Blue Bell Lane
292 Birch Drive	775 Althea Street
330 Ash Street	1034 Foxglove Street
331 Ash Street	1104 Iris Lane
335 Ash Street	1124 Iris Lane
342 Ash Street	

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

Attachment to: Petrus to Drawdy Subject: Draft Final Initial Groundwater Investigation Report-November and December 2015 Specific Property Recommendations Dated June 8, 2016, Page 2

BOARD: Paul C. Aughtry, III Chairman

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

14 August 2008

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

Re: MCAS – Laurel Bay Housing – 1034 Foxglove Site ID # 03991 UST Closure Reports received 31 January 2008 No Further Action Beaufort County

Dear Mr. Broadfoot:

The Department has reviewed the referenced closure report. Based upon the geotechnical data in the referenced report, the soil samples are below risk based screening levels.

As the Department did not specifically request this data, and the work conducted at this site received no prior review by the Department, we cannot provide any comments on the completeness of the work performed or the overall environmental conditions of the site. Based on the information and analytical data submitted, there is no evidence to indicate that a violation of the Pollution Control Act has occurred. Consequently, no investigation will be required at this time. Please note, this statement pertains only to the data submitted 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 803-898-3553 (office phone), 803-898-2893 (fax) or bishopma@dhec.sc.gov.

Sincerely,

cc:

Michael Bishop, Hydrogeologist Groundwater Quality Section Bureau of Water

B. Thomas Knight, Manager Groundwater Quality Section Bureau of Water

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



December 11, 2017

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

RE: Approved Response to Comments Draft Final Revision 1 Groundwater Assessment Report March and April 2017 Laurel Bay Military Housing Area

Dear Mr. Drawdy:

The South Carolina Department of Health and Environmental Control (DHEC) received the above referenced report on November 2, 2017. The regulatory authority for the investigation and cleanup of releases from these tank systems is the South Carolina Pollution Control Act (S.C. Code Ann. §48-1-10 et seq., as amended).

DHEC has reviewed the report. Based on this review, DHEC has not generated any additional comments.

Please note that DHEC'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, DHEC 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,

LRK

Laurel Petrus Department of Defense Corrective Action Section

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