SUMMARY REPORT 158 FOXGLOVE STREET (FORMERLY 1021 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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Prepared by:



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

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



Summary Report 158 Foxglove Street (Formerly 1021 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 158 Foxglove Street (Formerly 1021 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 USTs and conduct sampling activities to determine if, and to what extent, petroleum constituents may have impacted the surrounding environment. MCAS Beaufort coordinated with SCDHEC to develop removal procedures that were consistent with procedural requirements for regulated USTs. All tank removal activities and follow-on actions are conducted in coordination with SCDHEC. To date, all known USTs have been removed from all residential properties within the LBMH area.

1.2 UST Removal and Assessment Process

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

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

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



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

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

2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 158 Foxglove Street (Formerly 1021 Foxglove Street). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1021 Foxglove Street* (MCAS Beaufort, 2009). The UST Assessment Report is provided in Appendix B. Details regarding the IGWA sampling activities at this site are provided in the *Initial Groundwater Investigation Report – July 2013* (Resolution Consultants, 2015). The laboratory report that includes the pertinent IGWA analytical results for this site is presented in Appendix C.

2.1 UST Removal and Soil Sampling

On May 20, 2009, a single 280 gallon heating oil UST was removed from the back yard adjacent to the carport at 158 Foxglove Street (Formerly 1021 Foxglove Street). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed, cleaned, and shipped offsite for recycling. There was no visual evidence (i.e.,



staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 5'11" bgs and a single soil sample was collected from that depth. The sample was collected from the fill port side of the former UST to represent a worst case scenario.

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

2.2 Soil Analytical Results

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

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 158 Foxglove Street (Formerly 1021 Foxglove Street) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In a letter dated August 18, 2009, SCDHEC requested an IGWA for 158 Foxglove Street (Formerly 1021 Foxglove Street (Formerly 1021 Foxglove Street) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letter is provided in Appendix D.

2.3 Groundwater Sampling

On July 23, 2013, a temporary monitoring well was installed at 158 Foxglove Street (Formerly 1021 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. 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 – July 2013* (Resolution Consultants, 2015).



The sampling strategy for this phase of the investigation required a one-time sampling event of the temporarily installed monitoring well. Following well installation and development, groundwater samples were collected using low-flow methods and shipped to an offsite laboratory for analysis of the petroleum COPCs. Upon completion of groundwater sampling, the temporary well was abandoned in accordance with the South Carolina Well Standards and Regulations R.61-71 (SCDHEC, 2016). Field forms are provided in the *Initial Groundwater Investigation Report – July 2013* (Resolution Consultants, 2015).

2.4 Groundwater Analytical Results

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

The groundwater results collected from 158 Foxglove Street (Formerly 1021 Foxglove Street) were less than the SCDHEC RBSLs and the site specific groundwater VISLs (Table 2), which indicated that the groundwater was not impacted by COPCs associated with the former UST at concentrations that present a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for groundwater, SCDHEC made the determination that NFA was required for 158 Foxglove Street (Formerly 1021 Foxglove Street). This NFA determination was obtained in a letter dated August 6, 2015. SCDHEC's NFA letter is provided in Appendix D.

4.0 **REFERENCES**

- Marine Corps Air Station Beaufort, 2009. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report 1021 Foxglove Street, Laurel Bay Military Housing Area*, August 2009.
- Resolution Consultants, 2015. *Initial Groundwater Investigation Report July 2013 for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, June 2015.
- 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 - Soil158 Foxglove Street (Formerly 1021 Foxglove Street)Laurel Bay Military Housing AreaMarine Corps Air Station BeaufortBeaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Sample Collected 05/20/09					
Volatile Organic Compounds Analyze	/olatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)						
Benzene	0.003	ND					
Ethylbenzene	1.15	ND					
Naphthalene	0.036	ND					
Toluene	0.627	ND					
Xylenes, Total	13.01	ND					
Semivolatile Organic Compounds And	alyzed by EPA Method 8270D (mg/kg)						
Benzo(a)anthracene	0.66	0.819					
Benzo(b)fluoranthene	0.66	1.10					
Benzo(k)fluoranthene	0.66	0.466					
Chrysene	0.66	0.650					
Dibenz(a,h)anthracene	0.66	0.0914					

Notes:

⁽¹⁾ South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 1.0 and 1.1 (SCDHEC, May 2001 and SCDHEC, February 2011) and the Underground Storage Tank Assessment Guidelines (SCDHEC, February 2006).

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - milligrams per kilogram

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Table 2 Laboratory Analytical Results - Groundwater 158 Foxglove Street (Formerly 1021 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 07/23/13
Volatile Organic Compounds Analyzed	l by EPA Method 8260B (µg	/L)	
Benzene	5	16.24	ND
Ethylbenzene	700	45.95	ND
Naphthalene	25	29.33	ND
Toluene	1000	105,445	ND
Xylenes, Total	10,000	2,133	ND
Semivolatile Organic Compounds Ana	lyzed by EPA Method 8270) (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 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

Appendix A Multi-Media Selection Process for LBMH





Appendix A - Multi-Media Selection Process for LBMH

Appendix B UST Assessment Report



Attachment 1

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

Date Received State U	se Only	Submit Completed Form To: UST Program SCDHEC 2600 Bull Street Columbia, South Carolina 29201 Telephone (803) 896-7957		
	04250	RECEIVED AUG 1 7 2009		
	I. OWNERSH	IP OF UST (S)		
MCAS Beaufort, Comm	manding Officer Attn:	NREAO (Craig Ehde)		
Owner Name (Corporation, P.O. Box 55001	Individual, Public Agency, Other			
Mailing Address Beaufort,	South Carolina	29904-5001		
City 843	State 228-7317	Zip Code Craig Ehde		
Area Code	Telephone Number	Contact Person		
	II. SITE IDENTIFICAT	ION AND LOCATION		
Permit I.D. # Laurel Bay Militar Facility Name or Company S	– y Housing Area, Marine Site Identifier	Corps Air Station, Beaufort, SC		
1021 Foxglove St.,	Laurel Bay Military H	lousing Area		
Street Address or State Road Beaufort,	l (as applicable) Beaufort			
City	County			
		Attachment 2		

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

		1021Foxglove
A.	Product(ex. Gas, Kerosene)	Heatinġ Oil
В.	Capacity(ex. 1k, 2k)	280 gal
C.	Age	Late 1950s
D.	Construction Material(ex. Steel, FRP)	Steel
E.	Month/Year of Last Use	Mid 1980s
F.	Depth (ft.) To Base of Tank	5'11"
G.	Spill Prevention Equipment Y/N	No
H.	Overfill Prevention Equipment Y/N	No
I.	Method of Closure Removed/Filled	Removed
J.	Date Tanks Removed/Filled	5/20/09
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 1021Foxglove 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) The tank had been previously filled with sand by others.

O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST Corrosion, pitting and holes were found on the entire surface of the tank.

VII. PIPING INFORMATION

		1021Foxglove				
		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, d	lescribe the location and extent for each piping run.				
	Corrosion and pitting were found on the surface of the steel vent					
	pipe. The *copper supply and re	eturn lines were previously removed				

by others.

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.

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

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 96012001

Β.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
1021 Foxglove	Excav at fill end	Soil	Sandy	5'11"	5/20/09 1350 hrs	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

Provide a detailed description of the methods used to collect <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 1000 feet of the UST system?		X
	If yes, indicate type of receptor, distance, and direction on site map.		
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		х
	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?		Х
	If yes, indicate type of structure, distance, and direction on site map.		
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?	Х*	
	If yes, indicate the type of utility, distance, and direction on the site		
	map. *Geothermal lines, sewer and water.		
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?		х
	If yes, indicate the area of contaminated soil on the site map.		

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 1021Foxglove prior to excavation.



Picture 2: UST 1021Foxglove during removal from the excavation. The geo-thermal heat pump condensate drain line is visible at the edge of the dig.

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	1021Foxglove				
Benzene	ND				
Toluene	ND				
Ethylbenzene	ND				
Xylenes	ND				
Naphthalene	ND				
Benzo (a) anthracene	0.819 mg/kg				
Benzo (b) fluoranthene	1.10 mg/kg				
Benzo (k) fluoranthene	0.466 mg/kg				
Chrysene	0.650 mg/kg				
Dibenz (a, h) anthracene	0.0914 mg/kg	J			
ТРН (ЕРА 3550)					
CoC					
Benzene					
Toluene					
Ethylbenzene					
Xylenes					
Naphthalene					
Benzo (a) anthracene					
Benzo (b) fluoranthene					
Benzo (k) fluoranthene					
Chrysene					
Dibenz (a, h) anthracene					
ТРН (ЕРА 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)

THE LEADER IN ENVIRONMENTAL TESTING

NSE1961

[none]

05/22/09

0829

Laurel Bay Housing Project

June 04.	2009	12:09:16PM
	/	

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

SAMPLE IDENTIFICATION

1023 Foxglove 1027 Foxglove 1021 Foxglove 1030 Foxglove

LAB NUMBER

Work Order:

Project Name:

Date Received:

Project Nbr:

P/O Nbr:

NSE1961-01 NSE1961-02 NSE1961-03 NSE1961-04 COLLECTION DATE AND TIME

05/19/09 09:55 05/19/09 13:20 05/20/09 13:50 05/21/09 10:25

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.

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

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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:

Kenn & A. Hage

Ken A. Hayes Senior Project Manager

THE LEADER IN ENVIRONMENTAL TESTING

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSE1961
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	05/22/09 08:15

ANALYTICAL REPORT

Anglyte	Docult	Flog	Unite	MRL	Dilution Factor	Analysis Date/Time	Method	Batah
	Resun	riag	Umis		Tactor	Date I me		Daten
Sample ID: NSE1961-01 (1023 Fox	glove - Soil) S	ampled:	05/19/09 09:55					
General Chemistry Parameters								
% Dry Solids	81.4		%	0.500	1	06/04/09 08:23	SW-846	9060430
Selected Volatile Organic Compounds	by EPA Method	8260B						
Benzene	ND		mg/kg dry	0.00258	1	05/29/09 03:15	SW846 8260B	9054372
Ethylbenzene	ND		mg/kg dry	0.00258	1	05/29/09 03:15	SW846 8260B	9054372
Naphthalene	ND		mg/kg dry	0.00645	1	05/29/09 03:15	SW846 8260B	9054372
Toluene	ND		mg/kg dry	0.00258	1	05/29/09 03:15	SW846 8260B	9054372
Xylenes, total	ND		mg/kg dry	0.00645	1	05/29/09 03:15	SW846 8260B	9054372
Surr: 1,2-Dichloroethane-d4 (41-150%)	100 %					05/29/09 03:15	SW846 8260B	9054372
Surr: Dibromofluoromethane (55-139%)	96 %					05/29/09 03:15	SW846 8260B	9054372
Surr: Toluene-d8 (57-148%)	87 %					05/29/09 03:15	SW846 8260B	9054372
Surr: 4-Bromofluorobenzene (58-150%)	106 %					05/29/09 03:15	SW846 8260B	9054372
Polyaromatic Hydrocarbons by EPA 82	70D							
Acenaphthene	ND		mg/kg dry	0.0800	1	05/30/09 18:40	SW846 8270D	9053860
Acenaphthylene	ND		mg/kg dry	0.0800	1	05/30/09 18:40	SW846 8270D	9053860
Anthracene	ND		mg/kg dry	0.0800	1	05/30/09 18:40	SW846 8270D	9053860
Benzo (a) anthracene	ND		mg/kg dry	0.0800	1	05/30/09 18:40	SW846 8270D	9053860
Benzo (a) pyrene	ND		mg/kg dry	0.0800	1	05/30/09 18:40	SW846 8270D	9053860
Benzo (b) fluoranthene	ND		mg/kg dry	0.0800	1	05/30/09 18:40	SW846 8270D	9053860
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0800	1	05/30/09 18:40	SW846 8270D	9053860
Benzo (k) fluoranthene	ND		mg/kg dry	0.0800	1	05/30/09 18:40	SW846 8270D	9053860
Chrysene	ND		mg/kg dry	0.0800	1	05/30/09 18:40	SW846 8270D	9053860
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0800	1	05/30/09 18:40	SW846 8270D	9053860
Fluoranthene	ND		mg/kg dry	0.0800	1	05/30/09 18:40	SW846 8270D	9053860
Fluorene	ND		mg/kg dry	0.0800	1	05/30/09 18:40	SW846 8270D	9053860
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0800	1	05/30/09 18:40	SW846 8270D	9053860
Naphthalene	ND		mg/kg dry	0.0800	1	05/30/09 18:40	SW846 8270D	9053860
Phenanthrene	ND		mg/kg dry	0.0800	1	05/30/09 18:40	SW846 8270D	9053860
Pyrene	ND		mg/kg dry	0.0800	1	05/30/09 18:40	SW846 8270D	9053860
l-Methylnaphthalene	ND		mg/kg dry	0.0800	1	05/30/09 18:40	SW846 8270D	9053860
2-Methylnaphthalene	ND		mg/kg dry	0.0800	1	05/30/09 18:40	SW846 8270D	9053860
Surr: Terphenyl-d14 (26-128%)	79 %		•			05/30/09 18:40	SW846 8270D	9053860
Surr: 2-Fluorobiphenyl (19-109%)	59 %					05/30/09 18:40	SW846 8270D	9053860
Surr: Nitrobenzene-d5 (22-104%)	70 %					05/30/09 18:40	SW846 8270D	9053860

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSE1961
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	05/22/09 08:15

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSE1961-02 (1027 Fo	xglove - Soil) Sa	mpled:	05/19/09 13:20				• • • • • • • •	
General Chemistry Parameters	_ ,	• • • • • • • • • • • • • • • • • • • •						
% Dry Solids	82.4		%	0.500	1	06/04/09 08:23	SW-846	9060430
Selected Volatile Organic Compounds	by EPA Method	8260B						
Benzene	ND		mg/kg dry	0.00201	1	05/29/09 03:44	SW846 8260B	9054372
Ethylbenzene	0.00422		mg/kg dry	0.00201	1	05/29/09 03.44	SW846 8260B	9054372
Naphthalene	0.0596		mg/kg dry	0.00501	1	05/29/09 03:44	SW846 8260B	9054372
Toluene	ND		mg/kg dry	0.00201	1	05/29/09 03:44	SW846 8260B	9054372
Xylenes, total	ND		mg/kg dry	0.00501	1	05/29/09 03:44	SW846 8260B	9054372
Surr: 1.2-Dichloroethane-d4 (41-150%)	91 %			0.00201	•	05/29/09 03:44	SW846 8760B	0054372
Surr: Dibromofluoromethane (55-139%)	101 %					05/29/09 03.44	SW846 8260B	9054372
Surr: Toluene-d8 (57-148%)	91 %					05/29/09 03:44	SW846 8260B	9054372
Surr: 4-Bromofluorobenzene (58-150%)	114 %					05/29/09 03:44	SW846 8260B	9054372
Polyaromatic Hydrocarbons by EPA 8	270D							
Acenaphthene	ND		mg/kg dry	0.0802	1	05/30/09 19:03	SW846 8270D	9053860
Acenaphthylene	ND		mg/kg dry	0.0802	1	05/30/09 19:03	SW846 8270D	9053860
Anthracene	ND		mg/kg dry	0.0802	1	05/30/09 19:03	SW846 8270D	9053860
Benzo (a) anthracene	0.135		mg/kg dry	0.0802	1	05/30/09 19:03	SW846 8270D	9053860
Benzo (a) pyrene	ND		mg/kg dry	0.0802	1	05/30/09 19:03	SW846 8270D	9053860
Benzo (b) fluoranthene	ND		mg/kg dry	0.0802	1	05/30/09 19:03	SW846 8270D	9053860
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0802	1	05/30/09 19:03	SW846 8270D	9053860
Benzo (k) fluoranthene	ND		mg/kg drv	0.0802	1	05/30/09 19:03	SW846 8270D	9053860
Chrysene	0.113		mg/kg dry	0.0802	1	05/30/09 19:03	SW846 8270D	9053860
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0802	1	05/30/09 19:03	SW846 8270D	9053860
Fluoranthene	0.413		mg/kg dry	0.0802	1	05/30/09 19:03	SW846 8270D	9053860
Fluorene	ND		mg/kg drv	0.0802	1	05/30/09 19:03	SW846 8270D	9053860
Indeno (1.2.3-cd) pyrene	ND		mg/kg dry	0.0802	1	05/30/09 19:03	SW846 8270D	9053860
Naphthalene	ND		mg/kg dry	0.0802	1	05/30/09 19:03	SW846 8270D	9053860
Phenanthrene	0.286		mg/kg dry	0.0802	1	05/30/09 19:03	SW846 8270D	9053860
Pyrene	0.394		mg/kg dry	0.0802	1	05/30/09 19:03	SW846 8270D	9053860
1-Methylnaphthalene	0.129		mg/kg dry	0.0802	1	05/30/00 10:03	SW846 8270D	0052860
2-Methylnaphthalene	0.172		mg/kg dry	0.0802	1	05/30/09 19:03	SW846 8270D	0053840
Surr Ternhenul-d14 (26-128%)	80 %		mg/ ng ui y	0.0002	1	05/20/00 10.02	SW946 9770D	0062040
Surr: 2-Fluorobinhenvl (19-109%)	62 %					05/30/09 19:03	SW846 8270D	9033800
Surr: Nitrobenzene-d5 (22-104%)	67 %					05/30/09 19:03	SW846 8270D	9053860

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

EEG - Small Business Group, Inc. (2449) NSE1961 Client Work Order: 10179 Highway 78 Project Name: Laurel Bay Housing Project Ladson, SC 29456 [none] Project Number: Tom McElwee 05/22/09 08:15 Received: Attn

ANALYTICAL REPORT								
Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSE1961-03 (1021 For	xglove - Soil) Sa	ampled: (5/20/09 13:50					
General Chemistry Parameters								
% Dry Solids	95.5		%	0.500	1	06/04/09 08:23	SW-846	9060430
Selected Volatile Organic Compounds	by EPA Method	8260B						
Benzene	ND		mg/kg dry	0.00218	1	05/29/09 04:14	SW846 8260B	9054372
Ethylbenzene	ND		mg/kg dry	0.00218	1	05/29/09 04:14	SW846 8260B	9054372
Naphthalene	ND		mg/kg dry	0.00545	1	05/29/09 04:14	SW846 8260B	9054372
Toluene	ND		mg/kg dry	0.00218	1	05/29/09 04:14	SW846 8260B	9054372
Xylenes, total	ND		mg/kg dry	0.00545	1	05/29/09 04:14	SW846 8260B	9054372
Surr: 1,2-Dichloroethane-d4 (41-150%)	99 %					05/29/09 04:14	SW846 8260B	9054372
Surr: Dibromofluoromethane (55-139%)	99 %					05/29/09 04:14	SW846 8260B	9054372
Surr: Toluene-d8 (57-148%)	86 %					05/29/09 04:14	SW846 8260B	9054372
Surr: 4-Bromofluorobenzene (58-150%)	108 %					05/29/09 04:14	SW846 8260B	9054372
Polyaromatic Hydrocarbons by EPA 82	270D							
Acenaphthene	ND		mg/kg dry	0.0698	1	05/30/09 19:26	SW846 8270D	9053860
Acenaphthylene	ND		mg/kg dry	0.0698	1	05/30/09 19:26	SW846 8270D	9053860
Anthracene	ND		mg/kg dry	0.0698	1	05/30/09 19:26	SW846 8270D	9053860
Benzo (a) anthracene	0.819		mg/kg dry	0.0698	1	05/30/09 19:26	SW846 8270D	9053860
Benzo (a) pyrene	0.403		mg/kg dry	0.0698	1	05/30/09 19:26	SW846 8270D	9053860
Benzo (b) fluoranthene	1.10		mg/kg dry	0.0698	1	05/30/09 19:26	SW846 8270D	9053860
Benzo (g,h,i) perylene	0.183		mg/kg dry	0.0698	1	05/30/09 19:26	SW846 8270D	9053860
Benzo (k) fluoranthene	0.466		mg/kg dry	0.0698	1	05/30/09 19:26	SW846 8270D	9053860
Chrysene	0.650		mg/kg dry	0.0698	1	05/30/09 19:26	SW846 8270D	9053860
Dibenz (a,h) anthracene	0.0914		mg/kg dry	0.0698	1	05/30/09 19:26	SW846 8270D	9053860
Fluoranthene	1.58		mg/kg dry	0.0698	1	05/30/09 19:26	SW846 8270D	9053860
Fluorene	ND		mg/kg dry	0.0698	1	05/30/09 19:26	SW846 8270D	9053860
Indeno (1,2,3-cd) pyrene	0.236		mg/kg dry	0.0698	1	05/30/09 19:26	SW846 8270D	9053860
Naphthalene	ND		mg/kg dry	0.0698	1	05/30/09 19:26	SW846 8270D	9053860
Phenanthrene	ND		mg/kg dry	0.0698	1	05/30/09 19:26	SW846 8270D	9053860
Pyrene	3.23		mg/kg dry	0.0698	1	05/30/09 19:26	SW846 8270D	9053860
1-Methylnaphthalene	ND		mg/kg dry	0.0698	1	05/30/09 19:26	SW846 8270D	9053860
2-Methylnaphthalene	ND		mg/kg dry	0.0698	1	05/30/09 19:26	SW846 8270D	9053860
Surr: Terphenyl-d14 (26-128%)	81 %					05/30/09 19:26	SW846 8270D	9053860
Surr: 2-Fluorobiphenyl (19-109%)	7 9 %					05/30/09 19:26	SW846 8270D	9053860
Surr: Nitrobenzene-d5 (22-104%)	79 %					05/30/09 19:26	SW846 8270D	9053860

THE LEADER IN ENVIRONMENTAL TESTING

Attn		Received:	03/22/09 08:15
A ++	Tom McElwee	D	05/22/00 09.15
	Ladson, SC 29456	Project Number:	[none]
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSE1961

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSE1961-04 (1030 Fox	kglove - Soil) S	ampled:	05/21/09 10:25					
General Chemistry Parameters		•						
% Dry Solids	75.6		%	0.500	1	06/04/09 08:23	SW-846	9060430
Selected Volatile Organic Compounds	by EPA Method	8260B						
Benzene	ND		mg/kg dry	0.00237	1	05/29/09 04:44	SW846 8260B	9054372
Ethylbenzene	0.0269		mg/kg dry	0.00237	1	05/29/09 04:44	SW846 8260B	9054372
Naphthalene	0.162		mg/kg dry	0.00592	1	05/29/09 04:44	SW846 8260B	9054372
Toluene	ND		mg/kg dry	0.00237	1	05/29/09 04:44	SW846 8260B	9054372
Xylenes, total	0.0522		mg/kg dry	0.00592	1	05/29/09 04:44	SW846 8260B	9054372
Surr: 1,2-Dichloroethane-d4 (41-150%)	105 %		000			05/29/09 04:44	SW846 8260B	9054372
Surr: Dibromofluoromethane (55-139%)	101 %					05/29/09 04:44	SW846 8260B	9054372
Surr: Toluene-d8 (57-148%)	96 %					05/29/09 04:44	SW846 8260B	9054372
Surr: 4-Bromofluorobenzene (58-150%)	200 %	ZX				05/29/09 04:44	SW846 8260B	9054372
Polyaromatic Hydrocarbons by EPA 82	270D							
Acenaphthene	ND		mg/kg dry	0.0872	1	05/30/09 19:49	SW846 8270D	9053860
Acenaphthylene	ND		mg/kg dry	0.0872	1	05/30/09 19:49	SW846 8270D	9053860
Anthracene	1.91		mg/kg dry	0.0872	1	05/30/09 19:49	SW846 8270D	9053860
Benzo (a) anthracene	3.67		mg/kg dry	0.0872	1	05/30/09 19:49	SW846 8270D	9053860
Benzo (a) pyrene	1.40		mg/kg dry	0.0872	1	05/30/09 19:49	SW846 8270D	9053860
Benzo (b) fluoranthene	1.69		mg/kg dry	0.0872	1	05/30/09 19:49	SW846 8270D	9053860
Benzo (g,h,i) perylene	0.425		mg/kg dry	0.0872	1	05/30/09 19:49	SW846 8270D	9053860
Benzo (k) fluoranthene	1.42		mg/kg dry	0.0872	1	05/30/09 19:49	SW846 8270D	9053860
Chrysene	2.99		mg/kg dry	0.0872	1	05/30/09 19:49	SW846 8270D	9053860
Dibenz (a,h) anthracene	0.210		mg/kg dry	0.0872	1	05/30/09 19:49	SW846 8270D	9053860
Fluoranthene	11.4		mg/kg dry	0.436	5	05/31/09 08:37	SW846 8270D	9053860
Fluorene	1.62		mg/kg dry	0.0872	1	05/30/09 19:49	SW846 8270D	9053860
Indeno (1,2,3-cd) pyrene	0.494		mg/kg dry	0.0872	1	05/30/09 19:49	SW846 8270D	9053860
Naphthalene	ND		mg/kg drv	0.0872	1	05/30/09 19:49	SW846 8270D	9053860
Phenanthrene	9.03		mg/kg drv	0.436	5	05/31/09 08:37	SW846 8270D	9053860
Pyrene	8.05		mg/kg dry	0.436	5	05/31/09 08:37	SW846 8270D	9053860
1-Methylnaphthalene	3.36		mg/kg drv	0.0872	1	05/30/09 19:49	SW846 8270D	9053860
2-Methylnaphthalene	5.27		mg/kg drv	0.436	5	05/31/09 08:37	SW846 8270D	9053860
Surr: Terphenyl-d14 (26-128%)	83 %			21.00	-	05/30/09 19.40	SW846 8270D	0053860
Surr: 2-Fluorobiphenyl (19-109%)	72 %					05/30/09 19:49	SW846 8270D	9053860
Surr: Nitrobenzene-d5 (22-104%)	86 %					05/30/09 19:49	SW846 8270D	9053860

THE LEADER IN ENVIRONMENTAL TESTING

Client E	EEG - Small Business Group, Inc. (2449)	Work Order:	NSE1961
10	0179 Highway 78	Project Name:	Laurel Bay Housing Project
L	Ladson, SC 29456	Project Number:	[none]
Attn T	Fom McElwee	Received:	05/22/09 08:15

SAMPLE EXTRACTION DATA

			Wt/Vol				Extraction
Parameter	Batch	Lab Number	Extracted	Extracted Vol	Date	Analyst	Method
Polyaromatic Hydrocarbons by EPA 8	3270D						
SW846 8270D	9053860	NSE1961-01	30.86	1.00	05/29/09 12:40	ACB	EPA 3550B
SW846 8270D	9053860	NSE1961-02	30.42	1.00	05/29/09 12:40	ACB	EPA 3550B
SW846 8270D	9053860	NSE1961-03	30.14	1.00	05/29/09 12:40	ACB	EPA 3550B
SW846 8270D	9053860	NSE1961-04	30.50	1.00	05/29/09 12:40	ACB	EPA 3550B
SW846 8270D	9053860	NSE1961-04RE1	30.50	1.00	05/29/09 12:40	ACB	EPA 3550B
Selected Volatile Organic Compounds	s by EPA Method	8260B					
SW846 8260B	9054372	NSE1961-01	4.76	5.00	05/19/09 09:55	CHH	EPA 5035
SW846 8260B	9054372	NSE1961-02	6.05	5.00	05/19/09 13:20	CHH	EPA 5035
SW846 8260B	9054372	NSE1961-03	4.80	5.00	05/20/09 13:50	CHH	EPA 5035
SW846 8260B	9054372	NSE1961-04	5.59	5.00	05/21/09 10:25	СНН	EPA 5035

THE LEADER IN ENVIRONMENTAL TESTING

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSE1961
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	05/22/09 08:15

PROJECT QUALITY CONTROL DATA Blank								
Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time		
Selected Volatile Organic Compo	ounds by EPA Method	8260B				•••		
9054372-BLK1								
Benzene	<0.000670		mg/kg wet	9054372	9054372-BLK1	05/28/09 22:14		
Ethylbenzene	<0.000670		mg/kg wet	9054372	9054372-BLK1	05/28/09 22:14		
Naphthalene	<0.00151		mg/kg wet	9054372	9054372-BLK1	05/28/09 22:14		
Toluene	<0.000670		mg/kg wet	9054372	9054372-BLK1	05/28/09 22:14		
Xylenes, total	< 0.00172		mg/kg wet	9054372	9054372-BLK1	05/28/09 22:14		
Surrogate: 1,2-Dichloroethane-d4	109%			9054372	9054372-BLK1	05/28/09 22:14		
Surrogate: Dibromofluoromethane	101%			9054372	9054372-BLK1	05/28/09 22:14		
Surrogate: Toluene-d8	102%			9054372	9054372-BLK1	05/28/09 22:14		
Surrogate: 4-Bromofluorobenzene	100%			9054372	9054372-BLK1	05/28/09 22:14		
Polyaromatic Hydrocarbons by I	EPA 8270D							
9053860-BLK1								
Acenaphthene	< 0.0310		mg/kg wet	9053860	9053860-BLK1	05/30/09 09:45		
Acenaphthylene	< 0.0320		mg/kg wet	9053860	9053860-BLK1	05/30/09 09:45		
Anthracene	<0.0330		mg/kg wet	9053860	9053860-BLK1	05/30/09 09:45		
Benzo (a) anthracene	<0.0380		mg/kg wet	9053860	9053860-BLK1	05/30/09 09:45		
Benzo (a) pyrene	<0.0290		mg/kg wet	9053860	9053860-BLK1	05/30/09 09:45		
Benzo (b) fluoranthene	<0.0320		mg/kg wet	9053860	9053860-BLK1	05/30/09 09:45		
Benzo (g,h,i) perylene	<0.0290		mg/kg wet	9053860	9053860-BLK1	05/30/09 09:45		
Benzo (k) fluoranthene	<0.0290		mg/kg wet	9053860	9053860-BLK1	05/30/09 09:45		
Chrysene	<0.0390		mg/kg wet	9053860	9053860-BLK1	05/30/09 09:45		
Dibenz (a,h) anthracene	< 0.0310		mg/kg wet	9053860	9053860-BLK1	05/30/09 09:45		
Fluoranthene	<0.0340		mg/kg wet	9053860	9053860-BLK1	05/30/09 09:45		
Fluorene	<0.0390		mg/kg wet	9053860	9053860-BLK1	05/30/09 09:45		
Indeno (1,2,3-cd) pyrene	< 0.0310		mg/kg wet	9053860	9053860-BLK1	05/30/09 09:45		
Naphthalene	<0.0410		mg/kg wet	9053860	9053860-BLK1	05/30/09 09:45		
Phenanthrene	< 0.0340		mg/kg wet	9053860	9053860-BLK1	05/30/09 09:45		
Pyrene	<0.0410		mg/kg wet	9053860	9053860-BLK1	05/30/09 09:45		
Surrogate: Terphenyl-d14	98%			9053860	9053860-BLK1	05/30/09 09:45		
Surrogate: 2-Fluorobiphenyl	81%			9053860	9053860-BLK1	05/30/09 09:45		
Surrogate: Nitrobenzene-d5	96%			9053860	9053860-BLK1	05/30/09 09:45		

THE LEADER IN ENVIRONMENTAL TESTING

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSE1961
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	05/22/09 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										
9060430-DUP1 % Dry Solids	83.3	79.4		%	5	20	9060430	NSE1937-06		06/04/09 08:23

THE LEADER IN ENVIRONMENTAL TESTING

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSE1961
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	05/22/09 08:15
		· · · · · ·	

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Selected Volatile Organic Compou	nds by EPA Method 82	60B					· -	
9054372-BS1								
Benzene	50.0	47.5		ug/kg	95%	76 - 130	9054372	05/28/09 20:11
Ethylbenzene	50.0	45.1		ug/kg	90%	80 - 128	9054372	05/28/09 20:11
Naphthalene	50.0	44.3		ug/kg	89%	63 - 144	9054372	05/28/09 20:11
Toluene	50.0	45.2		ug/kg	90%	80 - 125	9054372	05/28/09 20:11
Xylenes, total	150	132		ug/kg	88%	79 - 130	9054372	05/28/09 20:11
Surrogate: 1,2-Dichloroethane-d4	50.0	44.8			90%	41 - 150	9054372	05/28/09 20:11
Surrogate: Dibromofluoromethane	50.0	50.0			100%	55 - 139	9054372	05/28/09 20:11
Surrogate: Toluene-d8	50.0	49.7			99%	57 - 148	9054372	05/28/09 20:11
Surrogate: 4-Bromofluorobenzene	50.0	48.8			98%	58 - 150	9054372	05/28/09 20:11
Polyaromatic Hydrocarbons by EP	PA 8270D							
9053860-BS1								
Acenaphthene	1.67	1.41		mg/kg wet	85%	52 - 106	9053860	05/30/09 12:11
Acenaphthylene	1.67	1.47		mg/kg wet	88%	53 - 109	9053860	05/30/09 12:11
Anthracene	1.67	1.62		mg/kg wet	97%	54 - 124	9053860	05/30/09 12:11
Benzo (a) anthracene	1.67	1.53		mg/kg wet	92%	53 - 111	9053860	05/30/09 12:11
Benzo (a) pyrene	1.67	1.53		mg/kg wet	92%	52 - 122	9053860	05/30/09 12:11
Benzo (b) fluoranthene	1.67	1.59		mg/kg wet	95%	48 - 115	9053860	05/30/09 12:11
Benzo (g,h,i) perylene	1.67	1.54		mg/kg wet	92%	46 - 114	9053860	05/30/09 12:11
Benzo (k) fluoranthene	1.67	1.34		mg/kg wet	80%	41 - 121	9053860	05/30/09 12:11
Chrysene	1.67	1.45		mg/kg wet	87%	49 - 113	9053860	05/30/09 12:11
Dibenz (a,h) anthracene	1.67	1.55		mg/kg wet	93%	47 - 117	9053860	05/30/09 12:11
Fluoranthene	1.67	1.57		mg/kg wet	94%	52 - 113	9053860	05/30/09 12:11
Fluorene	1.67	1.46		mg/kg wet	88%	54 - 107	9053860	05/30/09 12:11
Indeno (1,2,3-cd) pyrene	1.67	1.57		mg/kg wet	94%	47 - 115	9053860	05/30/09 12:11
Naphthalene	1.67	1.25		mg/kg wet	75%	34 - 107	9053860	05/30/09 12:11
Phenanthrene	1.67	1.45		mg/kg wet	87%	53 - 108	9053860	05/30/09 12:11
Pyrene	1.67	1.47		mg/kg wet	88%	54 - 113	9053860	05/30/09 12:11
Surrogate: Terphenyl-d14	1.67	1.33			80%	26 - 128	9053860	05/30/09 12:11
Surrogate: 2-Fluorobiphenyl	1.67	1.23			74%	19 - 109	9053860	05/30/09 12:11
Surrogate: Nitrobenzene-d5	1.67	1.33			80%	22 - 104	9053860	05/30/09 12:11

THE LEADER IN ENVIRONMENTAL TESTING

10179 Highway 78 Project Name: Laurel Bay Housing Project	
Ladson, SC 29456 Project Number: [none]	
Attn Tom McElwee Received: 05/22/09 08:15	

PROJECT QUALITY CONTROL DATA
LCS Dup

••••• "									····	·····		
Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Selected Volatile Organic Compo	ounds by EPA N	lethod 826	60B									
9054372-BSD1												
Benzene		42.4		ug/kg	50.0	85%	76 - 130	11	43	9054372		05/28/09 20:41
Ethylbenzene		42.1		ug/kg	50.0	84%	80 - 128	7	48	9054372		05/28/09 20:41
Naphthalene		39.2		ug/kg	50.0	78%	63 - 144	12	50	9054372		05/28/09 20:41
Toluene		41.6		ug/kg	50.0	83%	80 - 125	8	44	9054372		05/28/09 20:41
Xylenes, total		124		ug/kg	150	83%	79 - 130	6	48	9054372		05/28/09 20:41
Surrogate: 1,2-Dichloroethane-d4		40.6		ug/kg	50.0	81%	41 - 150			9054372		05/28/09 20:41
Surrogate: Dibromofluoromethane		49.8		ug/kg	50.0	100%	55 - 139			9054372		05/28/09 20:41
Surrogate: Toluene-d8		50.2		ug/kg	50.0	100%	57 - 148			9054372		05/28/09 20:41
Surrogate: 4-Bromofluorobenzene		48.6		ug/kg	50.0	97%	58 - 150			9054372		05/28/09 20:41

THE LEADER IN ENVIRONMENTAL TESTING

10179 Highway 78 Project Name: Laurel Bay Housing Project	
Ladson, SC 29456 Project Number: [none]	
AttnTom McElweeReceived:05/22/09 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
Selected Volatile Organic Compo	unds by EPA Me	thod 8260B		-						
9054372-MS1										
Benzene	ND	2.71		mg/kg wet	2.50	108%	33 - 146	9054372	NSE2194-03RE 1	05/29/09 07:49
Ethylbenzene	0.0696	2.37		mg/kg wet	2.50	92%	16 - 160	9054372	NSE2194-03RE 1	05/29/09 07:49
Naphthalene	0.0785	1.62		mg/kg wet	2.50	62%	10 - 151	9054372	NSE2194-03RE 1	05/29/09 07:49
Toluene	ND	2.14		mg/kg wet	2.50	85%	30 - 145	9054372	NSE2194-03RE 1	05/29/09 07:49
Xylenes, total	0.0874	6.38		mg/kg wet	7.50	84%	1 6 - 159	9054372	NSE2194-03RE 1	05/29/09 07:49
Surrogate: 1,2-Dichloroethane-d4		47.5		ug/kg	50.0	95%	41 - 150	9054372	NSE2194-03RE 1	05/29/09 07:49
Surrogate: Dibromofluoromethane		50.1		ug/kg	50.0	100%	55 - 139	9054372	NSE2194-03RE 1	05/29/09 07:49
Surrogate: Toluene-d8		47.1		ug/kg	50.0	94%	57 - 148	9054372	NSE2194-03RE 1	05/29/09 07:49
Surrogate: 4-Bromofluorobenzene		58.1		ug/kg	50.0	116%	58 - 150	9054372	NSE2194-03RE 1	05/29/09 07:49
Polyaromatic Hydrocarbons by E 9053860-MS1	PA 8270D									
Acenaphthene	ND	1.84		mg/kg dry	2.11	87%	28 - 117	9053860	NSE1796-24	05/30/09 12:33
Acenaphthylene	ND	1.90		mg/kg dry	2.11	90%	33 - 113	9053860	NSE1796-24	05/30/09 12:33
Anthracene	ND	2.11		mg/kg dry	2.11	100%	31 - 131	9053860	NSE1796-24	05/30/09 12:33
Benzo (a) anthracene	0.336	2.03		mg/kg dry	2.11	80%	29 - 124	9053860	NSE1796-24	05/30/09 12:33
Benzo (a) pyrene	0.502	2.05		mg/kg dry	2.11	73%	30 - 127	9053860	NSE1796-24	05/30/09 12:33
Benzo (b) fluoranthene	0.519	2.06		mg/kg dry	2.11	73%	26 - 128	9053860	NSE1796-24	05/30/09 12:33
Benzo (g,h,i) perylene	0.398	2.13		mg/kg dry	2.11	82%	21 - 122	9053860	NSE1796-24	05/30/09 12:33
Benzo (k) fluoranthene	0.357	1.91		mg/kg dry	2.11	74%	20 - 130	9053860	NSE1796-24	05/30/09 12:33
Chrysene	0.373	1.96		mg/kg dry	2.11	75%	30 - 119	9053860	NSE1796-24	05/30/09 12:33
Dibenz (a,h) anthracene	0.120	2.11		mg/kg dry	2.11	94%	27 - 122	9053860	NSE1796-24	05/30/09 12:33
Fluoranthene	0.117	2.10		mg/kg dry	2.11	94%	23 - 132	9053860	NSE1796-24	05/30/09 12:33
Fluorene	ND	1.94		mg/kg dry	2.11	92%	38 - 110	9053860	NSE1796-24	05/30/09 12:33
Indeno (1,2,3-cd) pyrene	0.354	2.15		mg/kg dry	2.11	85%	24 - 122	9053860	NSE1796-24	05/30/09 12:33
Naphthalene	ND	1.54		mg/kg dry	2.11	73%	14 - 117	9053860	NSE1796-24	05/30/09 12:33
Phenanthrene	ND	1.91		mg/kg dry	2,11	91%	21 - 130	9053860	NSE1796-24	05/30/09 12:33
Pyrene	0.136	2.01		mg/kg dry	2.11	89%	24 - 133	9053860	NSE1796-24	05/30/09 12:33
Surrogate: Terphenyl-d14		1.79		mg/kg dry	2.11	85%	26 - 128	9053860	NSE1796-24	05/30/09 12:33
Surrogate: 2-Fluorobiphenyl		1.47		mg/kg dry	2.11	70%	19 - 109	9053860	NSE1796-24	05/30/09 12:33
Surrogate: Nitrobenzene-d5		1.58		mg/kg dry	2.11	75%	22 - 104	9053860	NSE1796-24	05/30/09 12:33

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSE1961
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	05/22/09 08:15

		PR	OJEC	T QUALITY Matrix Sp	CONT ike Du	FROL E P	DATA					
Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Selected Volatile Organic Comp	ounds by EPA	Method 82	60B						-	-	- <u>-</u>	
9054372-MSD1	2											
Benzene	ND	2.40		mg/kg wet	2.50	96%	33 - 146	12	43	9054372	NSE2194-03RE	05/29/09 08:26
Ethylbenzene	0.0696	2.48		mg/kg wet	2.50	97%	16 - 160	5	48	9054372	1 NSE2194-03RE	05/29/09 08:26
Naphthalene	0.0785	2.80	R2	mg/kg wet	2.50	109%	10 - 151	53	50	9054372	1 NSE2194-03RE	05/29/09 08:26
Toluene	ND	2.01		mg/kg wet	2.50	80%	30 - 145	6	44	9054372	1 NSE2194-03RE	05/29/09 08:26
Xylenes, total	0.0874	6.95		mg/kg wet	7.50	91%	16 - 159	9	48	9054372	1 NSE2194-03RE	05/29/09 08:26
Surrogate: 1,2-Dichloroethane-d4		39.6		ug/kg	50.0	79%	41 - 150			9054372	1 NSE2194-03RE	05/29/09 08:26
Surrogate: Dibromofluoromethane		48.6		ug/kg	50.0	97%	55 - 139			9054372	1 NSE2194-03RE	05/29/09 08:26
Surrogate: Toluene-d8		46.7		ug/kg	50.0	93%	57 - 148			9054372	1 NSE2194-03RE	05/29/09 08:26
Surrogate: 4-Bromofluorobenzene		62.2		ug/kg	50.0	124%	58 - 150			9054372	1 NSE2194-03RE	05/29/09 08:26
											1	
Polyaromatic Hydrocarbons by 1	EPA 8270D											
9053860-MSD1												
Acenaphthene	ND	1.77		mg/kg dry	2.15	82%	28 - 117	4	33	9053860	NSE1796-24	05/30/09 12:56
Acenaphthylene	ND	1.86		mg/kg dry	2.15	86%	33 - 113	2	38	9053860	NSE1796-24	05/30/09 12:56
Anthracene	ND	2.11		mg/kg dry	2.15	98%	31 - 131	0.2	32	9053860	NSE1796-24	05/30/09 12:56
Benzo (a) anthracene	0.336	2.29		mg/kg dry	2.15	91%	29 - 124	12	26	9053860	NSE1796-24	05/30/09 12:56
Benzo (a) pyrene	0.502	2.53		mg/kg dry	2.15	94%	30 - 127	21	31	9053860	NSE1796-24	05/30/09 12:56
Benzo (b) fluoranthene	0.519	2.73		mg/kg dry	2.15	103%	26 - 128	28	37	9053860	NSE1796-24	05/30/09 12:56
Benzo (g,h,i) perylene	0.398	2.49		mg/kg dry	2.15	97%	21 - 122	16	28	9053860	NSE1796-24	05/30/09 12:56
Benzo (k) fluoranthene	0.357	1.99		mg/kg dry	2.15	76%	20 - 130	4	35	9053860	NSE1796-24	05/30/09 12:56
Chrysene	0.373	2.24		mg/kg dry	2.15	87%	30 - 119	13	31	9053860	NSE1796-24	05/30/09 12:56
Dibenz (a,h) anthracene	0.120	2.23		mg/kg dry	2.15	98%	27 - 122	6	32	9053860	NSE1796-24	05/30/09 12:56
Fluoranthene	0.117	2.11		mg/kg dry	2.15	92%	23 - 132	0.1	36	9053860	NSE1796-24	05/30/09 12:56
Fluorene	ND	1.90		mg/kg dry	2.15	88%	38 - 110	2	35	9053860	NSE1796-24	05/30/09 12:56
Indeno (1,2,3-cd) pyrene	0.354	2.48		mg/kg dry	2.15	99%	24 - 122	14	28	9053860	NSE1796-24	05/30/09 12:56
Naphthalene	ND	1.48		mg/kg dry	2.15	69%	14 - 117	4	34	9053860	NSE1796-24	05/30/09 12:56
Phenanthrene	ND	1.92		mg/kg dry	2.15	89%	21 - 130	0.2	33	9053860	NSE1796-24	05/30/09 12:56
Pyrene	0.136	2.07		mg/kg drv	2.15	90%	24 - 133	3	36	9053860	NSE1796-24	05/30/09 12:56
Surrogate: Terphenyl-d14		1.79		mg/kg dry	2.15	83%	26 - 128			9053860	NSE1796-24	05/30/09 12:56
Surrogate: 2-Fluorobiphenyl		1.45		mg/kg dry	2.15	67%	19 - 109			9053860	NSE1796-24	05/30/09 12:56
Surrogate: Nitrobenzene-d5		1 56		mg/kg dry	2.15	72%	22 - 104			9053860	NSE1796-24	05/30/09 12:56

THE LEADER IN ENVIRONMENTAL TESTING

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSE1961
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	05/22/09 08:15

TestAmerica Nashville

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CERTIFICATION SUMMARY

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

THE LEADER IN ENVIRONMENTAL TESTING

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSE1961
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	05/22/09 08:15

DATA QUALIFIERS AND DEFINITIONS

R2 The RPD exceeded the acceptance 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

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																06	6/08	/09	9 23	:59											
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Client Name/Account #	: EEG # 2449																_						•	Сол	plian	ce Mo	onitorin	la?	Ye	5	Nc
Address	: 10179 Highway	78			·								-											En	force	ment	Action	7	Ye	• <u></u>	- 'NC
City/State/Zip	Ladson, SC 29	456																	Site	e State	: SC							•		·	- ''
Project Manager	: Tom McElwee a	email: mcelv	vee@ee	eginc.r	et											-				PO#	:	0	82	9							
Telephone Number	843.412.2097					Fa	x Ne	o.:	8	43	<u>; -</u>	• 8	79	7.	-0	74	01		TAG	uote #	:			<u> </u>	<u></u>				·····		
Sampler Name: (Print	PRA	<u># 5</u>	<u>24</u>	w													-		Pro	ject ID	: Laur	el Bav	Hous	ina Pro	hiect						·
Sampler Signature	: <u>/</u>	FN	Ø													_	_		Pn	- Diect #	:				<u> </u>						
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sample ID / Description	Date Same	Time Sam	No. of Conta	Grab	Composite	Field Fittere	8	HCI (Blue Leb.)	NaOH (Orany	H ₂ SO ₄ Plastic	H ₂ SO ₄ Glass(None (Black L		Wastewater	Drinking Wate	Skudge	Sol	Other (specify	BTEX + N	PAH - 8270											USH TAT (P
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1030 Foxylour	5/21/09	1025	5	X				2				2					V		3	2								ý			
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telinquished by	5/21/2	09	Тіп 190	ne O	Receiv	red by:		<u> </u>	Sing	omer	<u>n:</u>				D	ate		DEX	Tim)		VOC	s Free	of He	adspa	ace?					Y
Relinquished by:	Date		Tim	ne I	Receiv	ved by	Test	Ameri	ca:	-	<u> </u>				5/3	atej V	6	0	Time S(S	, , ,											
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ATTACHMENT A



TRANSPORTER

FACI

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NON-HAZARDOUS MANIFE

ase print or type. (Form designed for use on elite (12-pitch)	typewriter.)						
NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No). 	Manifest Occument No.	2. Pa	ge 1		
13. (jenerator's Name and Mailung Address		i i i i i i i i		of	1 		
ACAS, Beautral Laurel Beautral				A. Mar		4 (1) 12 - 13 	
4. Generator's Phone Sata 226 - California				B. Stat	e Generator's ID		
5. Transporter 1 Company Name	6.	US EPA ID Number		Č. Stat	e Transporter's ID		
EEO, im.				D. Trar	sporter's Phone	13 879	-CMT1
7. Transporter 2 Company Name	8. 1	US EPA ID Number		E. State	e Transporter's ID		
9 Designated Facility Name and Site Address				F. Tran	sporter's Phone		
	10.	US EPA ID Number		G. Stat	e Facility's IU		
ROUTE 1, BOX 121				H. Faci	lity's Phone		
RID/GELAND SC: 20036					à.	3 987	434 3
			12. Con	tainers	13. Total	14. Unit	I. Misc. Commonte
Heading Old Tank Blod with Sand		·····	140,		Quantity	<u>wt./voi.</u>	Misc. Comments
WM Profil	o# 107666	Jan .	a.a.s		820		
WM Profil	e #						
			╉┯┹╾┖╾	╉╌┶┥		<u>├</u>	
WM Profile	э#						
			1		╶╸╵╹╴┈┛┈╴╴┠╴╴╴┚┈┯	<u> </u>	
WM Profile	• # 						
Additional Descriptions for Materials Listed Above				K. Dis	posal Location		
Landfill Solidification _				Cell		Leve	(
Bio Remediation							
5 Special Handling Instructions and Additional Late				Grid			
	The second		$O(1, \mathcal{I}) = I$	بالجر م یک ا	1942		
3)1027	FORMONE	A.	011	i o y e	1000		
Purchase Order # 3) 10 23 For	intour EN	MERGENCY CONTACT:					
3. GENERATOR'S CERTIFICATION:							
I hereby certify that the above-desi	cribed materials a	a not hazardour.	wactoo o	o dofir			001 - 3 - 5
applicable state law, have been ful	ly and accurately	described, classif	ied and n	s uein ackad	ied by 40 CF ied and are i	n ran	er condition
for transportation according to app	licable regulations			aonag		n prop	
		Signature "On behalf of"		·			Month Day Vo
harles H Harn			1. 11	سر ر ک	.	i.	Month Day Year
. Transporter 1 Acknowledgement of Receipt of Ma	terials	A Lances				K	
Printed/Typed Name		Şignature	Δ				Month Day Year
James Baldwin		Chances p	6 Julie	1		1	alember 69
Transporter 2 Acknowledgement of Receipt of Ma	terials					L	<u>x 1 x 1 x 1 2 - 18 2 1 3 -</u>
Frinted/ Lyped Name	5	Signature					Month Day Year
Certificate of Final Treatment/Disposal							
)	•.	
was managed in compliance with	a treatment facilit	y, that to the best	of my kn	owled	lge, the abov	e-desc	cribed waste
	ii applicable laws,	regulations, pern	nits and li	cense	s on the date	es liste	d above.
Facitility Owner or Operator: Certification of receipt	of non-hazardous materia	als covered by this manif	est.		······································		
Printed/Typed Name		Signature				·	Month Day Year
MARYN VILLER 2	1	- SC 1. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N .				\sim \sim \sim \sim

Appendix C Laboratory Analytical Report - Groundwater



Volatile	Organic	Compounds	by	GC/MS
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Client: AECOM - Re Description: BEALB1021T Date Sampled: 07/23/2013 1 Date Received: 07/25/2013	solution Consultants W01WG20130723 505							Laboratory ID: Matrix:	OG25027- Aqueous	014		
Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1	Analysis D 08/02/2013	ate 1722	Analyst ALL	Prep D	ate	Batch 26393				_
Parameter			CAS Number	Analy Me	ytical thod	Result	Q	LOQ	LOD	DL	Units	Run
Benzene			71-43-2	8	3260B	ND		0.50	0.25	0.027	ug/L	1
Ethylbenzene			100-41-4	8	3260B	ND		0.50	0.25	0.17	ug/L	1
Naphthalene			91-20-3	8	3260B	ND		0.50	0.25	0.12	ug/L	1
Toluene			108-88-3	8	3260B	ND		0.50	0.25	0.17	ug/L	1
Xylenes (total)		1;	330-20-7	8	3260B	ND		0.50	0.25	0.17	ug/L	1
Surrogate	Q	Run 1 % Recov	Accepta ery Limit	nce s								
1,2-Dichloroethane-d4		105	70-1	20								
Toluene-d8		100	85-1	20								
Bromofluorobenzene		110	75-1	20								
Dibromofluoromethane		100	85-1	15								

 PQL = Practical quantitation limit
 B = Detected in the method blank
 E = Quantitation of compound exceeded the calibration range
 H = Out of holding time
 Q = Surrogate failure

 ND = Not detected at or above the MDL
 J = Estimated result < PQL and >MDL
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria
 L = LCS/LCSD failure

 Where applicable, all soil sample analysis = 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

Level 1 Report v2.1

Client: AECOM - Res Description: BEALB1021T	solution Consultants W01WG20130723					La	boratory I Matr	ID: OG25027-0 rix: Aqueous	14		
Date Sampled: 07/25/2013 1:	600										
Date Received. 07/25/2015											
Run Prep Method 2 3520C	Analytical Method 8270D	Dilution 1	Analysis D 07/30/2013	ate Analyst 1305 RBH	Prep E 07/29/20)ate)13 1434	Batch 26002				
Parameter			CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzo(a)anthracene			56-55-3	8270D	ND		0.22	0.11	0.089	ug/L	2
Benzo(b)fluoranthene		2	205-99-2	8270D	ND		0.22	0.11	0.095	ug/L	2
Benzo(k)fluoranthene		2	207-08-9	8270D	ND		0.22	0.11	0.10	ug/L	2
Chrysene			218-01-9	8270D	ND		0.22	0.11	0.059	ug/L	2
Dibenzo(a,h)anthracene			53-70-3	8270D	ND		0.22	0.11	0.063	ug/L	2
Surrogate	Q	Run 2 % Recove	Accepta ery Limits	nce s							
2-Fluorobiphenyl		89	50-1	10							
Nitrobenzene-d5		97	40-1	10							
Terphenyl-d14		104	50-13	35							

 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

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 J = Estimated result < PQL and >MDL
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Level 1 Report v2.1

Appendix D Regulatory Correspondence





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

August 18, 2009

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

Re: MCAS – Laurel Bay Housing – 1021 Foxglove St. **Site ID # 04250** UST Closure Reports received August 17, 2009 Beaufort County

Dear Mr. Ehde:

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

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

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

Sincerely,

21) / Cark

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

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



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

> Division of Waste Management Bureau of Land and Waste Management

August 6, 2015

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

RE: Approval Response to Comments and Concurrence with Final Initial Groundwater Investigation Report-July 2013 Laurel Bay Military Housing Area Multiple Properties Dated June 2015

Dear Mr. Drawdy,

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

Per the Department's request, groundwater samples were collected from the attached referenced addresses. The Department reviewed the groundwater data and previous investigations and it agrees with the conclusions and recommendations included in the document. To further assess the impact to groundwater, permanent wells should be installed at the 10 stated addresses. For the remaining 25 addresses, there is no indication of contamination on the property and therefore no further investigation is required at this time.

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

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

Sincerely,

FIRT

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-July 2013 Specifice Property Recommendations Dated August 6, 2015

Draft Final Initial Groundwater Investigation Report for (35 addresses/38 tanks)

119 Banvan	156 Laurel Bay	
128 Banyan	1033 Foxglove	
132 Banyan	1055 Gardenia	
135 Birch	1059 Gardenia	
148 Laurel Bay	1168 Jasmine	
No Furth	her Action recommendation (25 addresses/27 tanks):	
115 Banyan	386 Acorn	
116 Banyan	395 Acorn	
120 Banyan	399 Acom	
124 Banyan	1021 Foxglove	
125 Banyan	1027 Foxglove	
136 Birch	1030 Foxglove	
140 Laurel Bay	1032 Foxglove	
144 Laurel Bay	1053 Gardenia	
152 Laurel Bay	1058 Gardenia	
160 Cummons	1061 Gardenia	
Tov Cypress	1166 Jasmine	
263 Beech		
263 Beech 269 Birch	1169 Jasmine	