SUMMARY REPORT 955 WEST LAUREL BAY BOULEVARD (FORMERLY 152 WEST LAUREL BAY BOULEVARD) 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 955 West Laurel Bay Boulevard (Formerly 152 West Laurel Bay Boulevard) Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort June 2021

Table of Contents

1.0	INTRODUCTION	. 1
1.1 1.2	BACKGROUND INFORMATION UST REMOVAL AND ASSESSMENT PROCESS	
2.0	SAMPLING ACTIVITIES AND RESULTS	. 3
2.1 2.2 2.3	UST REMOVAL AND SOIL SAMPLING SOIL ANALYTICAL RESULTS GROUNDWATER SAMPLING	.4 .4
2.4	GROUNDWATER ANALYTICAL RESULTS	.5
3.0	PROPERTY STATUS	. 5
4.0	REFERENCES	. 5

Tables

Table 1	Laboratory Analytical Results - Soil
Table 2	Laboratory Analytical Results - Groundwater

Appendices

- Appendix A Multi-Media Selection Process for LBMH
- Appendix B UST Assessment Report
- Appendix C Laboratory Analytical Report Groundwater
- Appendix D Regulatory Correspondence



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 955 West Laurel Bay Boulevard (Formerly 152 West Laurel Bay Boulevard). 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, 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 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 955 West Laurel Bay Boulevard (Formerly 152 West Laurel Bay Boulevard). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 152 Laurel Bay Boulevard* (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 March 23 2009, a single 280 gallon heating oil UST was removed from the front landscaped bed area adjacent to the driveway at 955 West Laurel Bay Boulevard (Formerly 152 West Laurel Bay Boulevard). The former UST location is indicated on Figures 2 and 3 of the UST Assessment

³



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 955 West Laurel Bay Boulevard (Formerly 152 West Laurel Bay Boulevard) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In a letter dated July 22, 2009, SCDHEC requested an IGWA for 955 West Laurel Bay Boulevard (Formerly 152 West Laurel Bay Boulevard) 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 22, 2013, a temporary monitoring well was installed at 955 West Laurel Bay Boulevard (Formerly 152 West Laurel Bay Boulevard), 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 955 West Laurel Bay Boulevard (Formerly 152 West Laurel Bay Boulevard) 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 955 West Laurel Bay Boulevard (Formerly 152 West Laurel Bay Boulevard). 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 – 152 Laurel Bay Boulevard, Laurel Bay Military Housing Area*, June 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 1 Laboratory Analytical Results - Soil 955 West Laurel Bay Blvd (Formerly 152 West Laurel Bay Blvd) Laurel Bay Military Housing Area Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Sample Collected 03/23/09
Volatile Organic Compounds Analyze	d by EPA Method 8260B (mg/kg)	
Benzene	0.003	ND
Ethylbenzene	1.15	0.0397
Naphthalene	0.036	0.0644
Toluene	0.627	ND
Xylenes, Total	13.01	0.0275
Semivolatile Organic Compounds Ana	lyzed by EPA Method 8270D (mg/kg)
Benzo(a)anthracene	0.66	6.61
Benzo(b)fluoranthene	0.66	3.87
Benzo(k)fluoranthene	0.66	2.73
Chrysene	0.66	6.51
Dibenz(a,h)anthracene	0.66	0.452

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 955 West Laurel Bay Blvd (Formerly 152 W Laurel Bay Blvd) 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 11/05/15
Volatile Organic Compounds Anal	/zed by EPA Method 8260B (µg/L)		
Benzene	5	16.24	ND
Ethylbenzene	700	45.95	ND
Naphthalene	25	29.33	0.20
Toluene	1000	105,445	ND
Xylenes, Total	10,000	2,133	ND
Semivolatile Organic Compounds	Analyzed by EPA Method 8270D (µg/L)	
Benzo(a)anthracene	10	NA	ND
Benzo(b)fluoranthene	10	NA	ND
Benzo(k)fluoranthene	10	NA	ND
Chrysene	10	NA	ND
Dibenz(a,h)anthracene	10	NA	ND

Notes:

¹⁾ South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management

Division, Revision 3.1 (SCDHEC, February 2016).

(2) Site-specific groundwater VISLs were calculated using the EPA JE Model Spreadsheets (Version 3.1, February 2004) and conservative modeling inputs representative of a small single-story house with an 8 foot ceiling. Site-specific groundwater VISLs were developed based on a target risk level of 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

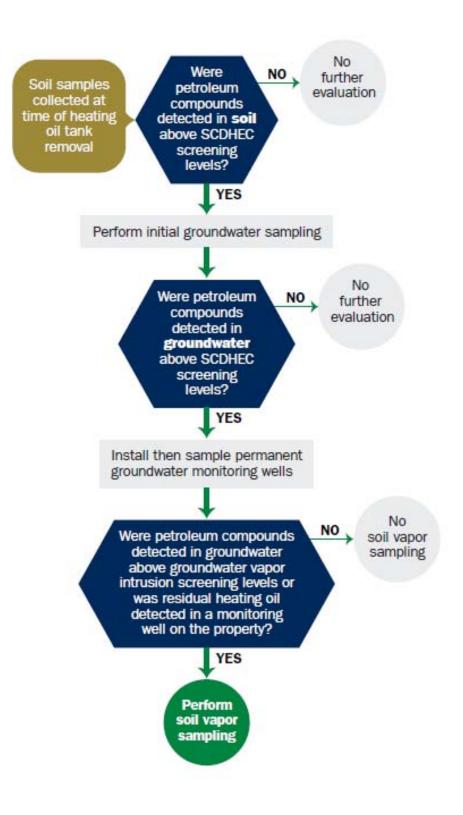
SCDHEC - South Carolina Department Of Health and Environmental Control

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 Use Only	Submit Completed Form To: UST Program SCDHEC 2600 Bull Street Columbia, South Carolina 29201 Telephone (803) 896-7957 RECEIVED
04234	JUN 2 9 2009
I. OWNERSHIP OF	SITE ASSESSMENT, REMEDIATION & REVITALIZATION
MCAS Beaufort, Commanding Officer Attn: NREAG Owner Name (Corporation, Individual, Public Agency, Other) P.O. Box 55001	O (Craig Ehde)

South Carolina

Telephone Number

228-7317

State

Mailing Address Beaufort,

City

843

Area Code

II. SITE IDENTIFICATION AND LOCATION

29904-5001 Zip Code

Permit I.D. # _Laurel Bay Militar	- y Housing Area, Marine Corps Air Station, Beaufort, SC
Facility Name or Company S	ite Identifier
152 Laurel Bay Blv	d, Laurel Bay Military Housing Area
Street Address or State Road	(as applicable)
Beaufort,	Beaufort
City	County

Attachment 2

Craig Ehde

Contact Person

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

		Bay Blvd
		Heating oil
A.	Product(ex. Gas, Kerosene)	280 gal
B.	Capacity(ex. 1k, 2k)	
C.	Age	Late 1950s
D.	Construction Material(ex. Steel, FRP)	Steel
_		Mid 1980s
E.	Month/Year of Last Use	5'11"
F.	Depth (ft.) To Base of Tank	
G.	Spill Prevention Equipment Y/N	No
		No
H.	Overfill Prevention Equipment Y/N	Removed
I.	Method of Closure Removed/Filled	
J.	Date Tanks Removed/Filled	3/23/09
K.	Visible Corrosion or Pitting Y/N	Yes
L.	Visible Holes Y/N	Yes

152 Laurel

M. Method of disposal for any USTs removed from the ground (attach disposal manifests) The tank 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 was filled with sand.

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.

VII. PIPING INFORMATION

		152 Laurel
		Bay Blvd
		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*
г	V' 11 Complete D'alter VAL	Yes
F.	Visible Corrosion or Pitting Y/N	
G.	Visible Holes Y/N	No
H.	Age	Early 1950s

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

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

*Steel piping was removed. Copper pipe was cut and capped at the edge of the excavation.

VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

IX. SITE CONDITIONS

	Yes	No	Unk
 A. Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells? If yes, indicate depth and location on the site map. 		x	
 B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells? If yes, indicate location on site map and describe the odor (strong, mild, etc.) 		x	
C. Was water present in the UST excavation, soil borings, or trenches? If yes, how far below land surface (indicate location and depth)?		x	
 D. Did contaminated soils remain stockpiled on site after closure? If yes, indicate the stockpile location on the site map. Name of DHEC representative authorizing soil removal: 		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 96012001

В.

в.		<u> </u>						
	mple #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	by	OVA #
152 I Bay	aurel 7 Blvd	Excav at fill end	Soil	Clay	5'11"	3/23/09 1035 hrs	S. Pratt	
						······		
								
	7							
	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.

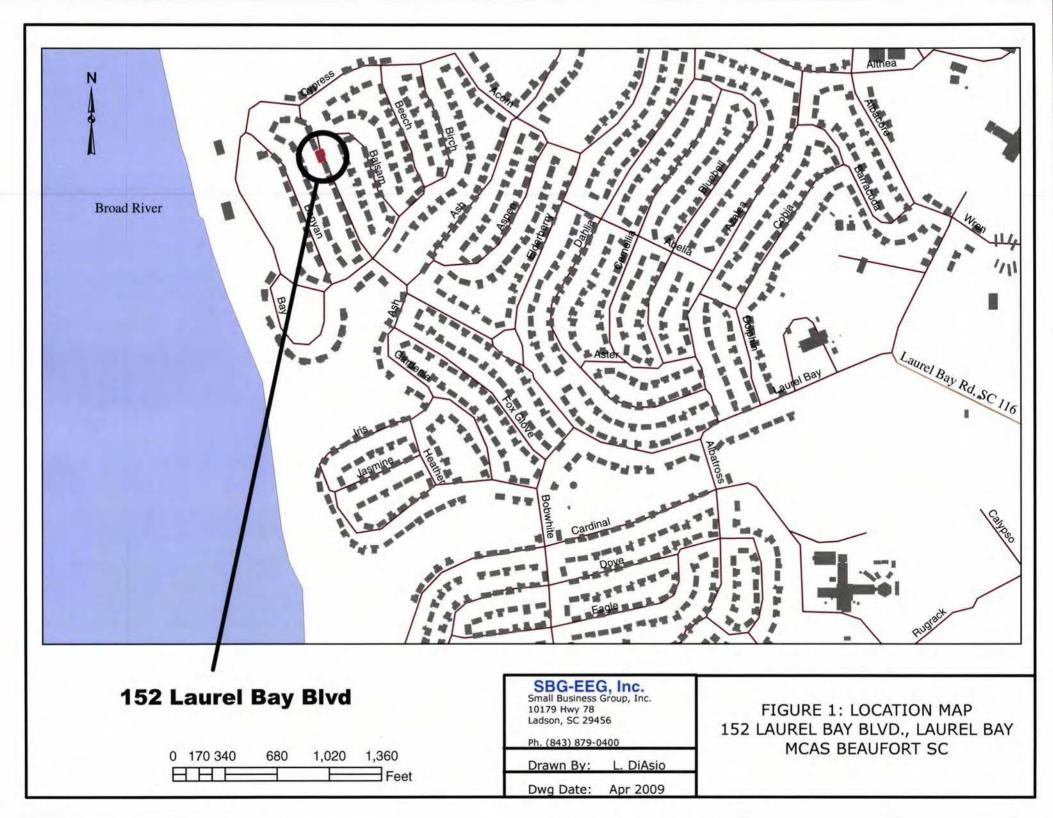
XII. RECEPTORS

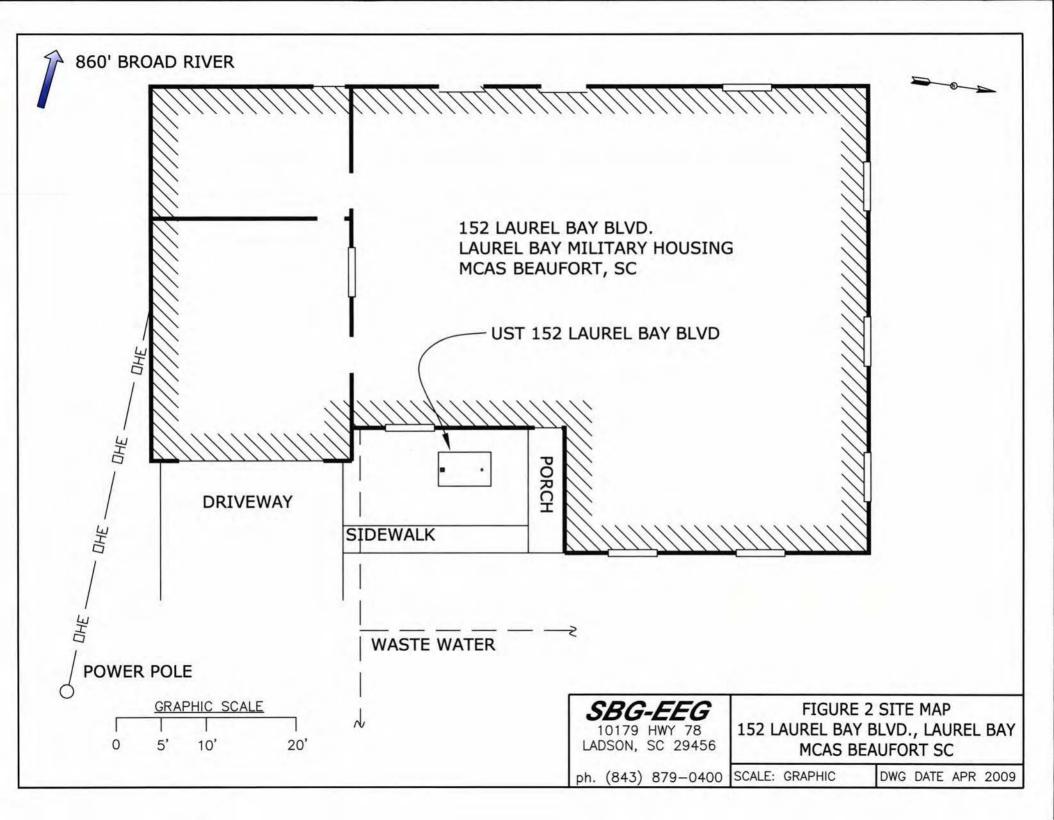
		Yes	No
А.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?	x	
	If yes, indicate type of receptor, distance, and direction on site map.		
В.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		X
	If yes, indicate 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?		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? *Sewer, water, electricity,	х*	
	cable, fiber optic If yes, indicate the type of utility, distance, and direction on the site map.		
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?		x
	If yes, indicate the area of contaminated soil on the site map.		

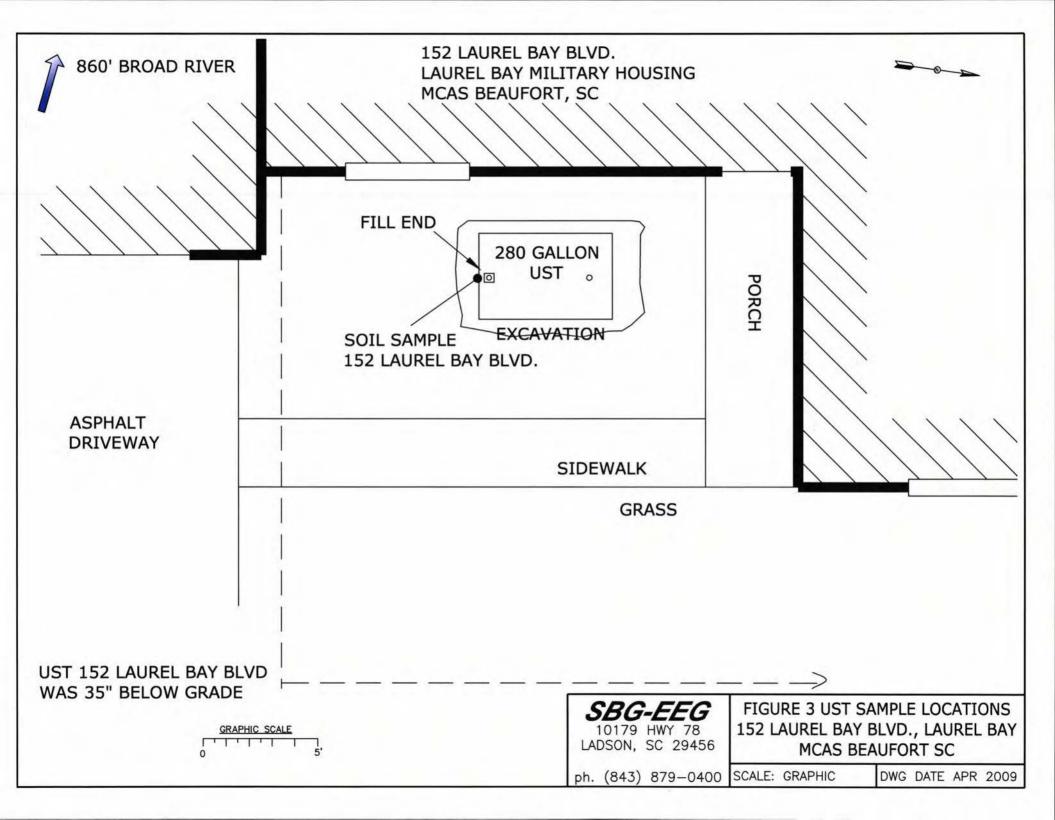
XIII. SITE MAP

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: Site of UST 152 Laurel Bay Blvd.



Picture 2: UST 152 Laurel Bay Blvd being removed from the excavation.

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.

CoC152 Laurel Bay BlvdIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII <th< th=""><th></th><th></th><th></th></th<>			
TolueneNDIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII </th <th>CoC</th> <th>152 Laurel Bay Blvd</th> <th></th>	CoC	152 Laurel Bay Blvd	
Ethylbenzene0.0397 mg/kgImage: style s	Benzene	ND	
Xylenes0.0275 mg/kgImage: Section of the sectio	Toluene	ND	
Naphthalene0.0644 mg/kgImage: Section of the se	Ethylbenzene	0.0397 mg/kg	
Benzo (a) anthracene6 . 61 mg/kgImage (a) anthracene6 . 61 mg/kgImage (a) anthraceneImage (a) anthracene <thimage (a)="" anthrac<="" th=""><th>Xylenes</th><th>0.0275 mg/kg</th><th></th></thimage>	Xylenes	0.0275 mg/kg	
Benzo (b) fluoranthene3.87 mg/kgImage: state	Naphthalene	0.0644 mg/kg	
Benzo (k) fluoranthene 2.73 mg/kg Image: state stat	Benzo (a) anthracene	6.61 mg/kg	
Chrysene 6.51 mg/kg Image: constraint of the second s	Benzo (b) fluoranthene	3.87 mg/kg	
Dibenz (a, h) anthracene 0.452 mg/kg Image: Constraint of the second secon	Benzo (k) fluoranthene	2.73 mg/kg	
TPH (EPA 3550) Image: Control of the second sec	Chrysene	6.51 mg/kg	
CoC Image: CoC	Dibenz (a, h) anthracene	0.452 mg/kg	
BenzeneImage: state in the state	ТРН (ЕРА 3550)		
BenzeneImage: state in the state			î
TolueneImage: Sector of the secto	CoC		
EthylbenzeneImage: Constraint of the sector of	Benzene		
XylenesImage: Solution of the state of the st	Toluene		
NaphthaleneImage: Second S	Ethylbenzene		
Benzo (a) anthraceneImage: Constraint of the second se	Xylenes		
Benzo (b) fluoranthene Image: Constraint of the second	Naphthalene		
Benzo (k) fluoranthene Image: Chrysene Image: Chrysene Image: Chrysene Dibenz (a, h) anthracene Image: Chrysene Image: Chrysene	Benzo (a) anthracene		
Chrysene Image: Chrysene Image: Chrysene Dibenz (a, h) anthracene Image: Chrysene Image: Chrysene	Benzo (b) fluoranthene		
Dibenz (a, h) anthracene	Benzo (k) fluoranthene		
	Chrysene		
TPH (EPA 3550)	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	W- 1	W-2	W -3	W -4
Free Product Thickness	(µg/l) 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	- 600 - 6 -			
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

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

NSC2487

[none]

03/27/09

08087

Laurel Bay Housing Project

April 10.	2009	10:47:19AM
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Client: EEG - Env. Enterprise Group (2449) 10179 Highway 78 Ladson, SC 29456 Attn: Tom McElwee

SAMPLE IDENTIFICATION

152 Laural Bay Blvd156 Laural Bay Blvd-1156 Laural Bay Blvd-2160 Cypress

LAB NUMBER

Work Order:

Project Name:

Project Nbr:

P/O Nbr: Date Received:

NSC2487-01 NSC2487-02 NSC2487-03 NSC2487-04

COLLECTION DATE AND TIME

03/23/09 10:35 03/24/09 10:30 03/24/09 14:30 03/25/09 10:00

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.

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:

Em fattage

Ken A. Hayes Senior Project Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client EEG - Env. Enterprise Group (24	449)			Work Order:	NSC2487			
10179 Highway 78				Project Name:	Laurel Bay Hou	sing Project		
Ladson, SC 29456				Project Number:	[none]			
Attn Tom McElwee				Received:	03/27/09 08:00			
			ANALYTICA	L REPORT				
Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSC2487-01 (152 Lau	ıral Bay Blvd - S	oil) Sam	pled: 03/23/	09 10:35				
Polyaromatic Hydrocarbons by EPA 82	270D							
cenaphthene	0.501		mg/kg dry	0.081	8 1	03/30/09 15:33	SW846 8270D	9034242
cenaphthylene	ND		mg/kg dry	0.081	8 1	03/30/09 15:33	SW846 8270D	9034242
nthracene	2.43		mg/kg dry	0.081	8 1	03/30/09 15:33	SW846 8270D	9034242
enzo (a) anthracene	6.61		mg/kg dry	0.409		03/31/09 14:42	SW846 8270D	9034242
senzo (a) pyrene	3.13		mg/kg dry	0.081		03/30/09 15:33	SW846 8270D	9034242
enzo (b) fluoranthene	3.87		mg/kg dry	0.081		03/30/09 15:33	SW846 8270D	9034242
enzo (g,h,i) perylene	0.976		mg/kg dry	0.081		03/30/09 15:33	SW846 8270D	9034242
enzo (k) fluoranthene	2.73		mg/kg dry	0.081		03/30/09 15:33	SW846 8270D	9034242
hrysene	6.51		mg/kg dry	0.409		03/31/09 14:42	SW846 8270D	9034242
bibenz (a,h) anthracene	0.452		mg/kg dry	0.081		03/30/09 15:33	SW846 8270D	9034242
luoranthene	14.7		mg/kg dry	0.409		03/31/09 14:42	SW846 8270D	9034242
luorene	1.67		mg/kg dry	0.081		03/30/09 15:33	SW846 8270D	9034242
deno (1,2,3-cd) pyrene	1.10		mg/kg dry	0.081		03/30/09 15:33	SW846 8270D	9034242
aphthalene	ND		mg/kg dry	0.081		03/30/09 15:33	SW846 8270D	9034242
nenanthrene	9.87		mg/kg dry	0.409		03/31/09 14:42	SW846 8270D	9034242
vrene	13.4		mg/kg dry	0.409		03/31/09 14:42	SW846 8270D	9034242
urr: Terphenyl-d14 (26-128%)	89 %		ing/kg ury	0.407	5	03/30/09 15:33	SW846 8270D	9034242
urr: 2-Fluorobiphenyl (19-109%)	7 6 %					03/30/09 15:33	SW846 8270D	9034242 9034242
urr: Nitrobenzene-d5 (22-104%)	84 %					03/30/09 15:33	SW846 8270D	9034242
General Chemistry Parameters								
b Dry Solids	81.3		%	0.500) 1	04/02/09 09:42	SW-846	9040045
elected Volatile Organic Compounds	by EPA Method 8	260B						
enzene	ND		mg/kg dry	0.0022	.2 1	03/31/09 20:10	SW846 8260B	9034691
thylbenzene	0.0397		mg/kg dry	0.0022	.2 1	03/31/09 20:10	SW846 8260B	9034691
aphthalene	0.0644		mg/kg dry	0.0045	8 1	04/01/09 17:36	SW846 8260B	9040118
oluene	ND		mg/kg dry	0.0022	2 1	03/31/09 20:10	SW846 8260B	9034691
ylenes, total	0.0275		mg/kg dry	0.0045	8 1	04/01/09 17:36	SW846 8260B	9040118
nr: 1,2-Dichloroethane-d4 (41-150%)	100 %					03/31/09 20:10	SW846 8260B	9034691
rr: 1,2-Dichloroethane-d4 (41-150%)	99 %					04/01/09 17:36	SW846 8260B	9040118
rr: Dibromofluoromethane (55-139%)	96 %					03/31/09 20:10	SW846 8260B	9034691
ırr: Dibromofluoromethane (55-139%)	96 %					04/01/09 17:36	SW846 8260B	9040118
ırr: Toluene-d8 (57-148%)	174 %	ZX				03/31/09 20:10	SW846 8260B	9034691
urr: Toluene-d8 (57-148%)	144 %					04/01/09 17:36	SW846 8260B	9040118
urr: 4-Bromofluorobenzene (58-150%)	1370 %	ZX				03/31/09 20:10	SW846 8260B	9034691
urr: 4-Bromofluorobenzene (58-150%)	123 %					04/01/09 17:36	SW846 8260B	9040118

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THE LEADER IN ENVIRONMENTAL TESTING

10179 Ladso	- Env. Enterprise Group (2449) 9 Highway 78 on, SC 29456 McElwee				Work Order: Project Name: Project Number: Received:	Lau [no	C2487 irel Bay Hous ne] 27/09 08:00	sing Project		
			1	ANALYTICA	L REPORT					
Analyte		Result	Flag	Units	MR	8L	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: N	NSC2487-02 (156 Laural	Bav Blvd-1	- Soil) Sa	mpled: 03/2	24/09 10:30					
-	Hydrocarbons by EPA 8270			•						
Acenaphthene	,	ND		mg/kg dry	0.0	833	1	03/30/09 15:56	SW846 8270D	9034242
Acenaphthylene		ND		mg/kg dry	0.0		1	03/30/09 15:56	SW846 8270D	9034242
Anthracene		ND		mg/kg dry	0.0	833	1	03/30/09 15:56	SW846 8270D	9034242
Benzo (a) anthra	acene	ND		mg/kg dry	0.0		1	03/30/09 15:56	SW846 8270D	9034242
Benzo (a) pyrene		ND		mg/kg dry	0.0	833	1	03/30/09 15:56	SW846 8270D	9034242
Benzo (b) fluora		ND		mg/kg dry	0.0	833	1	03/30/09 15:56	SW846 8270D	9034242
Benzo (g,h,i) per	rylene	ND		mg/kg dry	0.0	833	1	03/30/09 15:56	SW846 8270D	9034242
Benzo (k) fluora	inthene	ND		mg/kg dry	0.0	833	1	03/30/09 15:56	SW846 8270D	9034242
Chrysene		ND		mg/kg dry	0.0	833	1	03/30/09 15:56	SW846 8270D	9034242
Dibenz (a,h) ant	hracene	ND		mg/kg dry	0.0	833	1	03/30/09 15:56	SW846 8270D	9034242
Fluoranthene		ND		mg/kg dry	0.03	833	1	03/30/09 15:56	SW846 8270D	9034242
Fluorene		ND		mg/kg dry	0.0	833	1	03/30/09 15:56	SW846 8270D	9034242
Indeno (1,2,3-cd	l) pyrene	ND		mg/kg dry	0.0	833	1	03/30/09 15:56	SW846 8270D	9034242
Naphthalene		ND		mg/kg dry	0.0	833	1	03/30/09 15:56	SW846 8270D	9034242
Phenanthrene		ND		mg/kg dry	0.0	833	1	03/30/09 15:56	SW846 8270D	9034242
Pyrene		ND		mg/kg dry	0.0	833	1	03/30/09 15:56	SW846 8270D	9034242
Surr: Terphenyl-	-d14 (26-128%)	66 %						03/30/09 15:56	SW846 8270D	9034242
Surr: 2-Fluorobi	iphenyl (19-109%)	64 %						03/30/09 15:56	SW846 8270D	9034242
Surr: Nitrobenze	ene-d5 (22-104%)	60 %						03/30/09 15:56	SW846 8270D	9034242
General Chem	nistry Parameters									
% Dry Solids		7 8.2		%	0.5	500	1	04/02/09 09:42	SW-846	9040045
Selected Vola	tile Organic Compounds by	EPA Method	8260B							
Benzene		ND		mg/kg dry	0.00	0210	1	03/31/09 20:40	SW846 8260B	9034691
Ethylbenzene		ND		mg/kg dry	0.00	0210	1	03/31/09 20:40	SW846 8260B	9034691
Naphthalene		ND		mg/kg dry	0.00)524	1	03/31/09 20:40	SW846 8260B	9034691
Toluene		ND		mg/kg dry	0.00	0210	1	03/31/09 20:40	SW846 8260B	9034691
Xylenes, total		ND		mg/kg dry	0.00)524	1	03/31/09 20:40	SW846 8260B	9034691
Surr: 1,2-Dichlo	roethane-d4 (41-150%)	104 %						03/31/09 20:40	SW846 8260B	9034691
	uoromethane (55-139%)	97 %						03/31/09 20:40	SW846 8260B	9034691
Surr: Toluene-de	()	104 %						03/31/09 20:40	SW846 8260B	9034691
Surr: 4-Bromoflu	uorobenzene (58-150%)	114 %						03/31/09 20:40	SW846 8260B	9034691

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THE LEADER IN ENVIRONMENTAL TESTING

Client EEG - Env. Enterprise Group (24 10179 Highway 78 Ladson, SC 29456 Attn Tom McElwee				Work Order: Project Name: Project Number: Received:	NSC2487 Laurel Bay Hou [none] 03/27/09 08:00	ising Project		
		Al	NALYTICA	L REPORT				
Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSC2487-03 (156 Lau	ral Bay Blvd-2		mled: 03/2	24/09 14:30				
Polyaromatic Hydrocarbons by EPA 82		Son, Sun		11.50				
Acenaphthene	0.117		mg/kg dry	0.084	5 1	03/30/09 16:19	SW846 8270D	9034242
Acenaphthylene	ND		mg/kg dry	0.084		03/30/09 16:19	SW846 8270D	9034242
Anthracene	ND		mg/kg dry	0.084		03/30/09 16:19	SW846 8270D	9034242
								9034242
Benzo (a) anthracene	ND		mg/kg dry	0.084		03/30/09 16:19	SW846 8270D	
Benzo (a) pyrene	ND		mg/kg dry	0.084		03/30/09 16:19	SW846 8270D	9034242
Benzo (b) fluoranthene	ND		mg/kg dry	0.084		03/30/09 16:19	SW846 8270D	9034242
Benzo (g,h,i) perylene	ND		mg/kg dry	0.084		03/30/09 16:19	SW846 8270D	9034242
Benzo (k) fluoranthene	ND		mg/kg dry	0.084		03/30/09 16:19	SW846 8270D	9034242
Chrysene	ND		mg/kg dry	0.084		03/30/09 16:19	SW846 8270D	9034242
Dibenz (a,h) anthracene	ND		mg/kg dry	0.084	5 1	03/30/09 16:19	SW846 8270D	9034242
Fluoranthene	ND		mg/kg dry	0.084	5 1	03/30/09 16:19	SW846 8270D	9034242
Fluorene	ND		mg/kg dry	0.084	5 1	03/30/09 16:19	SW846 8270D	9034242
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.084	5 1	03/30/09 16:19	SW846 8270D	9034242
Naphthalene	0.100		mg/kg dry	0.084	5 1	03/30/09 16:19	SW846 8270D	9034242
Phenanthrene	0.667		mg/kg dry	0.084	5 1	03/30/09 16:19	SW846 8270D	9034242
Pyrene	ND		mg/kg dry	0.084	5 1	03/30/09 16:19	SW846 8270D	9034242
Surr: Terphenyl-d14 (26-128%)	67 %					03/30/09 16:19	SW846 8270D	9034242
Surr: 2-Fluorobiphenyl (19-109%)	62 %					03/30/09 16:19	SW846 8270D	9034242
Surr: Nitrobenzene-d5 (22-104%)	60 %					03/30/09 16:19	SW846 8270D	9034242
General Chemistry Parameters								
% Dry Solids	79.3		%	0.500) 1	04/02/09 09:42	SW-846	9040045
Selected Volatile Organic Compounds	by EPA Method	8260B						
Benzene	ND		mg/kg dry	0.0020	0 1	03/31/09 21:10	SW846 8260B	9034691
Ethylbenzene	0.111		mg/kg dry	0.0020	0 1	03/31/09 21:10	SW846 8260B	9034691
Naphthalene	1.07		mg/kg dry	0.291	50	04/01/09 20:07	SW846 8260B	9040118
Toluene	ND		mg/kg dry	0.0020		03/31/09 21:10	SW846 8260B	9034691
Xylenes, total	0.0931		mg/kg dry	0.0049	9 1	03/31/09 21:10	SW846 8260B	9034691
Surr: 1,2-Dichloroethane-d4 (41-150%)	98 %					03/31/09 21:10	SW846 8260B	903469
Surr: 1,2-Dichloroethane-d4 (41-150%)	103 %					04/01/09 20:07	SW846 8260B	9040118
Surr: Dibromofluoromethane (55-139%)	94 %					03/31/09 21:10	SW846 8260B	903469
Surr: Dibromofluoromethane (55-139%)	96 %					04/01/09 20:07	SW846 8260B	9040118
Surr: Toluene-d8 (57-148%)	119 %					03/31/09 21:10	SW846 8260B	903469
Surr: Toluene-d8 (57-148%)	98 %					04/01/09 20:07	SW846 8260B	9040118
Surr: 4-Bromofluorobenzene (58-150%)	146 %					03/31/09 21:10	SW846 8260B	903469
Surr: 4-Bromofluorobenzene (58-150%)	109 %					04/01/09 20:07	SW846 8260B	9040118

THE LEADER IN ENVIRONMENTAL TESTING

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		ANALYTICAL REPORT		
Attn	Tom McElwee	Received:	03/27/09 08:00	
	Ladson, SC 29456	Project Number:	[none]	
	10179 Highway 78	Project Name:	Laurel Bay Housing Project	
Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSC2487	

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSC2487-04 (160 Cyp	ress - Soil) San	npled: 03	/25/09 10:00					
Polyaromatic Hydrocarbons by EPA 82	270D							
Acenaphthene	0.465		mg/kg dry	0.0879	1	03/30/09 16:42	SW846 8270D	9034242
Acenaphthylene	ND		mg/kg dry	0.0879	1	03/30/09 16:42	SW846 8270D	9034242
Anthracene	0.341		mg/kg dry	0.0879	1	03/30/09 16:42	SW846 8270D	9034242
Benzo (a) anthracene	0.332		mg/kg dry	0.0879	1	03/30/09 16:42	SW846 8270D	9034242
Benzo (a) pyrene	0.166		mg/kg dry	0.0879	1	03/30/09 16:42	SW846 8270D	9034242
Benzo (b) fluoranthene	0.206		mg/kg dry	0.0879	1	03/30/09 16:42	SW846 8270D	9034242
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0879	I	03/30/09 16:42	SW846 8270D	9034242
Benzo (k) fluoranthene	0.162		mg/kg dry	0.0879	1	03/30/09 16:42	SW846 8270D	9034242
Chrysene	0.339		mg/kg dry	0.0879	1	03/30/09 16:42	SW846 8270D	9034242
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0879	1	03/30/09 16:42	SW846 8270D	9034242
Fluoranthene	0.742		mg/kg dry	0.0879	1	03/30/09 16:42	SW846 8270D	9034242
Fluorene	1.48		mg/kg dry	0.0879	1	03/30/09 16:42	SW846 8270D	9034242
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0879	1	03/30/09 16:42	SW846 8270D	9034242
Naphthalene	1.99		mg/kg dry	0.0879	1	03/30/09 16:42	SW846 8270D	9034242
Phenanthrene	3.24		mg/kg dry	0.0879	1	03/30/09 16:42	SW846 8270D	9034242
Pyrene	0.767		mg/kg dry	0.0879	1	03/30/09 16:42	SW846 8270D	9034242
Surr: Terphenvl-d14 (26-128%)	76 %		007			03/30/09 16:42	SW846 8270D	9034242
Surr: 2-Fluorobiphenyl (19-109%)	65 %					03/30/09 16:42	SW846 8270D	9034242
Surr: Nitrobenzene-d5 (22-104%)	72 %					03/30/09 16:42	SW846 8270D	9034242
General Chemistry Parameters								
% Dry Solids	75.5		%	0.500	1	04/02/09 09:42	SW-846	9040045
Selected Volatile Organic Compounds	by EPA Method	8260B						
Benzene	0.00269		mg/kg dry	0.00240	1	03/31/09 21:41	SW846 8260B	9034691
Ethylbenzene	1.64		mg/kg dry	0.126	50	03/31/09 22:11	SW846 8260B	9034691
Naphthalene	12.5		mg/kg dry	3.15	500	04/01/09 20:38	SW846 8260B	9040118
Toluene	ND		mg/kg dry	0.00240	1	03/31/09 21:41	SW846 8260B	9034691
Xylenes, total	0.357		mg/kg dry	0.00599	1	03/31/09 21:41	SW846 8260B	9034691
Surr: 1,2-Dichloroethane-d4 (41-150%)	103 %					03/31/09 21:41	SW846 8260B	9034691
Surr: 1,2-Dichloroethane-d4 (41-150%)	99 %					03/31/09 22:11	SW846 8260B	9034691
Surr: 1,2-Dichloroethane-d4 (41-150%)	97 %					04/01/09 20:38	SW846 8260B	9040118
Surr: Dibromofluoromethane (55-139%)	98 %					03/31/09 21:41	SW846 8260B	9034691
Surr: Dibromofluoromethane (55-139%)	92 %					03/31/09 22:11	SW846 8260B	9034691
Surr: Dibromofluoromethane (55-139%)	<i>93 %</i>					04/01/09 20:38	SW846 8260B	9040118
Surr: Toluene-d8 (57-148%)	128 % 103 %					03/31/09 21:41	SW846 8260B	9034691
Surr: Toluene-d8 (57-148%) Surr: Toluene-d8 (57-148%)	103 % 105 %					03/31/09 22:11 04/01/09 20:38	SW846 8260B SW846 8260B	9034691 9040118
Surr: 1-oluene-ao (57-140%) Surr: 4-Bromofluorobenzene (58-150%)	105 %					03/31/09 21:41	SW846 8260B SW846 8260B	9040118 9034691
Surr: 4-Bromofluorobenzene (58-150%)	115 %					03/31/09 22:11	SW846 8260B	9034691
Surr: 4-Bromofluorobenzene (58-150%)	104 %					04/01/09 20:38	SW846 8260B	9040118

THE LEADER IN ENVIRONMENTAL TESTING

Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSC2487
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/27/09 08:00

SAMPLE EXTRACTION DATA

Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
A 8270D						
9034242	NSC2487-01	30.22	1.00	03/28/09 09:00	DMG	EPA 3550B
9034242	NSC2487-01RE1	30.22	1.00	03/28/09 09:00	DMG	EPA 3550B
9034242	NSC2487-02	30.87	1.00	03/28/09 09:00	DMG	EPA 3550B
9034242	NSC2487-03	30.01	00.1	03/28/09 09:00	DMG	EPA 3550B
9034242	NSC2487-04	30.28	1.00	03/28/09 09:00	DMG	EPA 3550B
nds by EPA Method	8260B					
9034691	NSC2487-01	5.55	5.00	03/23/09 10:35	JRL	EPA 5035
9040118	NSC2487-01RE1	6.72	5.00	03/23/09 10:35	JRL	EPA 5035
9040118	NSC2487-01RE2	6.37	5.00	03/23/09 10:35	JRL	EPA 5035
9034691	NSC2487-02	6.10	5.00	03/24/09 10:30	JRL	EPA 5035
9034691	NSC2487-03	6.32	5.00	03/24/09 14:30	JRL	EPA 5035
9040118	NSC2487-03RE1	5.42	5.00	03/24/09 14:30	JRL	EPA 5035
9034691	NSC2487-04	5.53	5.00	03/25/09 10:00	JRL	EPA 5035
9034691	NSC2487-04RE1	5.26	5.00	03/25/09 10:00	JRL	EPA 5035
9040118	NSC2487-04RE2	5.26	5.00	03/25/09 10:00	JRL	EPA 5035
	A 8270D 9034242 9034242 9034242 9034242 9034242 9034242 9034691 9040118 9040118 9034691 9034691 9034691 9034691	9034242 NSC2487-01 9034242 NSC2487-01RE1 9034242 NSC2487-02 9034242 NSC2487-03 9034242 NSC2487-03 9034242 NSC2487-04 9034242 NSC2487-04 9034242 NSC2487-04 9034691 NSC2487-01 9040118 NSC2487-01RE1 9034691 NSC2487-01RE2 9034691 NSC2487-03RE1 9034691 NSC2487-03RE1 9034691 NSC2487-03RE1 9034691 NSC2487-04 9034691 NSC2487-03RE1 9034691 NSC2487-04	Batch Lab Number Extracted 48270D NSC2487-01 30.22 9034242 NSC2487-01 30.22 9034242 NSC2487-02 30.87 9034242 NSC2487-03 30.01 9034242 NSC2487-03 30.01 9034242 NSC2487-04 30.28 9034242 NSC2487-04 30.28 9034242 NSC2487-04 30.28 9034242 NSC2487-01 5.55 9034691 NSC2487-01RE1 6.72 9034691 NSC2487-01RE1 6.32 9034691 NSC2487-03IRE1 6.32 9034691 NSC2487-03RE1 5.42 9034691 NSC2487-03RE1 5.42 9034691 NSC2487-03RE1 5.42 9034691 NSC2487-03RE1 5.53 9034691 NSC2487-03RE1 5.53 9034691 NSC2487-04RE1 5.53	Batch Lab Number Extracted Extracted Vol A 8270D NSC2487-01 30.22 1.00 9034242 NSC2487-01RE1 30.22 1.00 9034242 NSC2487-02 30.87 1.00 9034242 NSC2487-03 30.01 1.00 9034242 NSC2487-01 5.55 5.00 9034691 NSC2487-01RE1 6.72 5.00 9034691 NSC2487-03RE1 6.32 5.00 9034691 NSC2487-03RE1 5.42 5.00 9034691 NSC2487-03RE1 5.42 5.00 9034691 NSC2487-03RE1 5.42 5.00 9034691 NSC2487-04 5.53 5.00 9034691 NSC2487-04 5.53 5.00 9034691	Batch Lab Number Extracted Extracted Extracted Vol Date A 8270D	BatehLab NumberExtractedExtracted VolDateAnalystA 8270DA 8270D9034242NSC2487-0130.221.0003/28/0909:00DMG9034242NSC2487-01RE130.221.0003/28/0909:00DMG9034242NSC2487-0230.871.0003/28/0909:00DMG9034242NSC2487-0330.011.0003/28/0909:00DMG9034242NSC2487-0330.011.0003/28/0909:00DMG9034242NSC2487-0330.281.0003/28/0909:00DMG9034691NSC2487-015.555.0003/28/0910:35JRL9034691NSC2487-01RE16.325.0003/28/0910:35JRL9034691NSC2487-03RE15.425.0003/24/0914:30JRL9034691NSC2487-03RE15.425.0003/24/0914:30JRL9034691NSC2487-03RE15.425.0003/24/0914:30JRL9034691NSC2487-03RE15.265.0003/25/0910:00JRL9034691NSC2487-04RE15.265.0003/25/0910:00JRL

	EG - Env. Enterprise Group (2449)	Work Order:	NSC2487
101	179 Highway 78	Project Name:	Laurel Bay Housing Project
Lad	idson, SC 29456	Project Number:	[none]
Attn Tor	om McElwee	Received:	03/27/09 08:00

PROJECT QUALITY CONTROL DATA Blank								
Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time		
Polyaromatic Hydrocarbons by I	EPA 8270D							
9034242-BLK1								
Acenaphthene	< 0.0310		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52		
Acenaphthylene	<0.0320		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52		
Anthracene	< 0.0330		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52		
Benzo (a) anthracene	< 0.0380		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52		
Benzo (a) pyrene	< 0.0290		mg/kg wct	9034242	9034242-BLK1	03/30/09 12:52		
Benzo (b) fluoranthene	<0.0320		mg/kg wct	9034242	9034242-BLK1	03/30/09 12:52		
Benzo (g,h,i) perylene	< 0.0290		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52		
Benzo (k) fluoranthene	< 0.0290		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52		
Chrysene	<0.0390		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52		
Dibenz (a,h) anthracene	<0.0310		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52		
Fluoranthene	< 0.0340		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52		
Fluorene	< 0.0390		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52		
Indeno (1,2,3-cd) pyrene	< 0.0310		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52		
Naphthalenc	<0.0410		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52		
Phenanthrene	< 0.0340		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52		
Pyrene	<0.0410		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52		
Surrogate: Terphenyl-d14	84%			9034242	9034242-BLK1	03/30/09 12:52		
Surrogate: 2-Fluorobiphenyl	7 4%			9034242	9034242-BLK1	03/30/09 12:52		
Surrogate: Nitrobenzene-d5	74%			9034242	9034242-BLK1	03/30/09 12:52		
Selected Volatile Organic Compo	ounds by EPA Method	1 8260B						
9034691-BLK1	·							
Benzcne	<0.000670		mg/kg wet	9034691	9034691-BLK1	03/31/09 15:01		
Ethylbenzene	<0.000670		mg/kg wet	9034691	9034691-BLK1	03/31/09 15:01		
Naphthalene	< 0.00151		mg/kg wet	9034691	9034691-BLK1	03/31/09 15:01		
Tolucne	<0.000670		mg/kg wet	9034691	9034691-BLK1	03/31/09 15:01		
Xylenes, total	<0.00172		mg/kg wet	9034691	9034691-BLK1	03/31/09 15:01		
Surrogate: 1,2-Dichloroethane-d4	102%			9034691	9034691-BLK1	03/31/09 15:01		
Surrogate: Dibromofluoromethane	97%			9034691	9034691-BLK1	03/31/09 15:01		
Surrogate: Toluene-d8	103%			9034691	9034691-BLK1	03/31/09 15:01		
Surrogate: 4-Bromofluorobenzene	102%			9034691	9034691-BLK1	03/31/09 15:01		
9040118-BLK1								
Benzene	<0.000670		mg/kg wet	9040118	9040118-BLK1	04/01/09 15:26		
Ethylbenzene	<0.000670		mg/kg wct	9040118	9040118-BLK1	04/01/09 15:26		
Naphthalene	< 0.00151		mg/kg wet	9040118	9040118-BLK1	04/01/09 15:26		
Toluene	<0.000670		mg/kg wct	9040118	9040118-BLK1	04/01/09 15:26		
Xylenes, total	<0.00172		mg/kg wct	9040118	9040118-BLK1	04/01/09 15:26		
Surrogate: 1,2-Dichloroethane-d4	100%			9040118	9040118-BLK1	04/01/09 15:26		
Surrogate: Dibromofluoromethane	96%			9040118	9040118-BLK1	04/01/09 15:26		
Surrogate: Toluene-d8	103%			9040118	9040118-BLK1	04/01/09 15:26		



Attn	Tom McElwee	Received:	03/27/09 08:00	
	Ladson, SC 29456	Project Number:	[none]	
	10179 Highway 78	Project Name:	Laurel Bay Housing Project	
Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSC2487	

	Blank - Cont.										
Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time					
Selected Volatile Organic Compo	ounds by EPA Method										
9040118-BLK1 Surrogate: 4-Bromofluorobenzene	103%			9040118	9040118-BLK1	04/01/09 15:26					



10179 Highway 78 Project Name: Laurel Bay Housing P	roject
Ladson, SC 29456 Project Number: [none]	
Attn Tom McElwee Received: 03/27/09 08:00	

	PROJECT QUALITY CONTROL DATA Duplicate									
Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time	
General Chemistry Parameters 9040045-DUP1 % Dry Solids	82. 4	82.8		%	0.5	20	9040045	NSC2443-17	04/02/09 09:42	

Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSC2487
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/27/09 08:00

PROJECT QUALITY CONTROL DATA LCS									
Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time	
Polyaromatic Hydrocarbons by EP	A 8270D								
9034242-BS1									
Acenaphthene	1.67	1.29		mg/kg wet	77%	52 - 106	9034242	03/30/09 13:15	
Acenaphthylene	1.67	1.29		mg/kg wet	78%	53 - 109	9034242	03/30/09 13:15	
Anthracene	1.67	1.45		mg/kg wet	87%	54 - 124	9034242	03/30/09 13:15	
Benzo (a) anthracene	1.67	1.39		mg/kg wet	83%	53 - 111	9034242	03/30/09 13:15	
Benzo (a) pyrene	1.67	1.43		mg/kg wet	86%	52 - 122	9034242	03/30/09 13:15	
Benzo (b) fluoranthene	1.67	1.46		mg/kg wet	88%	48 - 115	9034242	03/30/09 13:15	
Benzo (g,h,i) perylene	1.67	1.36		mg/kg wet	82%	46 - 114	9034242	03/30/09 13:15	
Benzo (k) fluoranthene	1.67	1.25		mg/kg wet	75%	41 - 121	9034242	03/30/09 13:15	
Chrysene	1.67	1.37		mg/kg wet	82%	49 - 113	9034242	03/30/09 13:15	
Dibenz (a,h) anthracene	1.67	1.38		mg/kg wet	83%	47 - 117	9034242	03/30/09 13:15	
Fluoranthene	1.67	1.28		mg/kg wet	77%	52 - 113	9034242	03/30/09 13:15	
Fluorene	1.67	1.30		mg/kg wet	78%	54 - 107	9034242	03/30/09 13:15	
Indeno (1,2,3-cd) pyrene	1.67	1.40		mg/kg wet	84%	47 - 115	9034242	03/30/09 13:15	
Naphthalene	1.67	1.11		mg/kg wct	67%	34 - 107	9034242	03/30/09 13:15	
Phenanthrene	1.67	1.34		mg/kg wct	81%	53 - 108	9034242	03/30/09 13:15	
Pyrene	1.67	1.49		mg/kg wet	89%	54 - 113	9034242	03/30/09 13:15	
Surrogate: Terphenyl-d14	1.67	1.39			83%	26 - 128	9034242	03/30/09 13:15	
Surrogate: 2-Fluorobiphenyl	1.67	1.25			75%	19 - 109	9034242	03/30/09 13:15	
Surrogate: Nitrobenzene-d5	1.67	1.15			69%	22 - 104	9034242	03/30/09 13:15	
Selected Volatile Organic Compou	nds by EPA Method 82	60B							
9034691-BS1									
Benzene	50.0	52.6		ug/kg	105%	76 - 130	9034691	03/31/09 13:00	
Ethylbenzene	50.0	54.6		ug/kg	109%	80 - 128	9034691	03/31/09 13:00	
Naphthalene	50.0	55.0		ug/kg	110%	63 - 144	9034691	03/31/09 13:00	
Toluene	50.0	50.9		ug/kg	102%	80 - 125	9034691	03/31/09 13:00	
Xylenes, total	150	164		ug/kg	109%	79 - 130	9034691	03/31/09 13:00	
Surrogate: 1,2-Dichloroethane-d4	50.0	50.4			101%	41 - 150	9034691	03/31/09 13:00	
Surrogate: Dibromofluoromethane	50.0	50.1			100%	55 - 139	9034691	03/31/09 13:00	
Surrogate: Toluene-d8	50.0	52.0			104%	57 - 148	9034691	03/31/09 13:00	
Surrogate: 4-Bromofluorobenzene	50.0	51.3			103%	58 - 150	9034691	03/31/09 13:00	
9040118-BS1									
Benzene	50.0	51.1		ug/kg	102%	76 - 130	9040118	04/01/09 13:25	
Ethylbenzene	50.0	54.0		ug/kg	108%	80 - 128	9040118	04/01/09 13:25	
Naphthalenc	50.0	53.7		ug/kg	107%	63 - 144	9040118	04/01/09 13:25	
Toluene	50.0	50.2		ug/kg	100%	80 - 125	9040118	04/01/09 13:25	
Xylenes, total	150	162		ug/kg	108%	79 - 130	9040118	04/01/09 13:25	
Surrogate: 1,2-Dichloroethane-d4	50.0	49.1			98%	41 - 150	9040118	04/01/09 13:25	
Surrogate: Dibromofluoromethane	50.0	48.6			97%	55 - 139	9040118	04/01/09 13:25	
Surrogate: Toluene-d8	50.0	51.8			104%	57 - 148	9040118	04/01/09 13:25	



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

Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSC2487
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/27/09 08:00

Analyte Known Val. Analyzed Val Q Units % Rcc. Range Batch Selected Volatile Organic Compounds by EPA Method 8260B										
-	Known Val.	,	Q	Units	% Rec.			Analyzed Date/Time		
Selected Volatile Organic Compou	nds by EPA Method 82	60B								
9040118-BS1 Surrogate: 4-Bromofluorobenzene	50.0	51.0			102%	58 - 150	9040118	04/01/09 13:25		

10179 Highway 78 Project Name: Laurel Bay Housing Pro	inat
Tory Thenney to Thomas The The Thomas The The Thomas The	ject
Ladson, SC 29456 Project Number: [none]	
Attn Tom McElwee Received: 03/27/09 08:00	

	PROJECT	QUALITY	Y CONT	ROL I	DATA					
		LCS	Dup							
Analyte	Orig. Val. Duplicate Q	Units	Spike Cone	% Rcc.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Selected Volatile Organic Compo	ounds by EPA Method 8260B									
9034691-BSD1										
Benzene	49.8	ug/kg	50.0	100%	76 - 130	5	43	9034691		03/31/09 13:30
Ethylbenzene	54.6	ug/kg	50.0	109%	80 - 128	0.04	48	9034691		03/31/09 13:30
Naphthalene	55.8	ug/kg	50.0	112%	63 - 144	I	50	9034691		03/31/09 13:30
Toluene	51.3	ug/kg	50.0	103%	80 - 125	0.9	44	9034691		03/31/09 13:30
Xylenes, total	164	ug/kg	150	109%	79 - 130	0.2	48	9034691		03/31/09 13:30
Surrogate: 1,2-Dichloroethane-d4	49.7	ug/kg	50.0	99%	41 - 150			9034691		03/31/09 13:30
Surrogate: Dibromofluoromethane	49.1	ug/kg	50.0	98%	55 - 139			9034691		03/31/09 13:30
Surrogate: Toluene-d8	52.2	ug/kg	50.0	104%	57 - 148			9034691		03/31/09 13:30
Surrogate: 4-Bromofluorobenzene	51.8	ug/kg	50.0	104%	58 - 150			9034691		03/31/09 13:30
9040118-BSD1										
Benzene	51.2	ug/kg	50.0	102%	76 - 130	0.2	43	9040118		04/01/09 13:55
Ethylbenzene	53.3	ug/kg	50.0	107%	80 - 128	1	48	9040118		04/01/09 13:55
Naphthalene	54.4	ug/kg	50.0	109%	63 - 144	1	50	9040118		04/01/09 13:55
Toluenc	50.0	ug/kg	50.0	100%	80 - 125	0.5	44	9040118		04/01/09 13:55
Xylencs, total	161	ug/kg	150	107%	79 - 130	0.8	48	9040118		04/01/09 13:55
Surrogate: 1,2-Dichloroethane-d4	49.6	ug/kg	50.0	99%	41 - 150			9040118		04/01/09 13:55
Surrogate: Dibromofluoromethane	49.3	ug/kg	50.0	99%	55 - 139			9040118		04/01/09 13:55
Surrogate: Toluene-d8	51.9	ug/kg	50.0	104%	57 - 148			9040118		04/01/09 13:55
Surrogate: 4-Bromofluorobenzene	52.0	ug/kg	50.0	104%	58 - 150			9040118		04/01/09 13:55

THE LEADER IN ENVIRONMENTAL TESTING

Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSC2487
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/27/09 08:00

		PROJE		JALITY CC Matrix Spil	NTROL DA	АТА				
Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rcc.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Polyaromatic Hydrocarbons by E	PA 8270D								-	
9034242-MS1										
Acenaphthene	ND	1.54		mg/kg dry	2.10	73%	28 - 117	9034242	NSC2487-02	03/30/09 13:38
Accnaphthylene	ND	1.54		mg/kg dгу	2.10	73%	33 - 113	9034242	NSC2487-02	03/30/09 13:38
Anthracene	ND	1.67		mg/kg dry	2.10	80%	31 - 131	9034242	NSC2487-02	03/30/09 13:38
Benzo (a) anthracene	ND	1.61		mg/kg dry	2.10	77%	29 - 124	9034242	NSC2487-02	03/30/09 13:38
Benzo (a) pyrene	ND	1.68		mg/kg dry	2.10	80%	30 - 127	9034242	NSC2487-02	03/30/09 13:38
Benzo (b) fluoranthene	ND	1.54		mg/kg dгу	2.10	73%	26 - 128	9034242	NSC2487-02	03/30/09 13:38
Benzo (g,h,i) perylene	ND	1.56		mg/kg dгу	2.10	74%	21 - 122	9034242	NSC2487-02	03/30/09 13:38
Benzo (k) fluoranthene	ND	1.65		mg/kg dry	2.10	78%	20 - 130	9034242	NSC2487-02	03/30/09 13:38
Chrysene	ND	1.63		mg/kg dry	2.10	77%	30 - 119	9034242	NSC2487-02	03/30/09 13:38
Dibenz (a,h) anthracene	ND	1.59		mg/kg dry	2.10	76%	27 - 122	9034242	NSC2487-02	03/30/09 13:38
Fluoranthene	0.0427	1.49		mg/kg dry	2.10	69%	23 - 132	9034242	NSC2487-02	03/30/09 13:38
Fluorene	ND	1.54		mg/kg dry	2.10	74%	38 - 110	9034242	NSC2487-02	03/30/09 13:38
Indeno (1,2,3-cd) pyrene	ND	1.63		mg/kg dry	2.10	77%	24 - 122	9034242	NSC2487-02	03/30/09 13:38
Naphthalene	ND	1.30		mg/kg dry	2.10	62%	14 - 117	9034242	NSC2487-02	03/30/09 13:38
Phenanthrene	ND	1.56		mg/kg dry	2.10	74%	21 - 130	9034242	NSC2487-02	03/30/09 13:38
Pyrenc	0.0522	1.81		mg/kg dry	2.10	84%	24 - 133	9034242	NSC2487-02	03/30/09 13:38
Surrogate: Terphenyl-d14		1.56		mg/kg dry	2.10	74%	26 - 128	9034242	NSC2487-02	03/30/09 13:38
Surrogate: 2-Fluorobiphenyl		1.38		mg/kg dry	2.10	66%	19 - 109	9034242	NSC2487-02	03/30/09 13:38
Surrogate: Nitrobenzene-d5		1.17		mg/kg dry	2.10	56%	22 - 104	9034242	NSC2487-02	03/30/09 13:38
Selected Volatile Organic Compo 9034691-MS1	unds by EPA Me	thod 8260B								
Benzene	ND	3.27		mg/kg dry	3.15	104%	33 - 146	9034691	NSC2487-04RE	03/31/09 22:41
Ethylbenzene	1.64	4.92		mg/kg dry	3.15	104%	16 - 160	9034691	NSC2487-04RE	03/31/09 22:41
Naphthalcnc	13.5	16.0		mg/kg dry	3.15	79%	10 - 151	9034691	NSC2487-04RE	03/31/09 22:41
Tolucne	ND	3.06		mg/kg dry	3.15	97%	30 - 145	9034691	NSC2487-04RE	03/31/09 22:41
Xylenes, total	1.84	11.6		mg/kg dry	9.44	104%	16 - 159	9034691	NSC2487-04RE	03/31/09 22:41
Surrogate: 1,2-Dichloroethane-d4		52.5		ug/kg	50.0	105%	41 - 150	9034691	NSC2487-04RE	03/31/09 22:41
Surrogate: Dibromofluoromethane		50.2		ug/kg	50.0	100%	55 - 139	9034691	NSC2487-04RE	03/31/09 22:41
Surrogate: Toluene-d8		50.3		ug/kg	50.0	101%	57 - 148	9034691	NSC2487-04RE	03/31/09 22:41
Surrogate: 4-Bromofluorobenzene		55.4		ug/kg	50.0	111%	58 - 150	9034691	NSC2487-04RE	03/31/09 22:41

9040118-MS1

1

THE LEADER IN ENVIRONMENTAL TESTING

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

Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSC2487
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/27/09 08:00

PROJECT QUALITY CONTROL DATA Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rcc.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Selected Volatile Organic Compou	inds by EPA Me	thod 8260B								
9040118-MS1										
Benzene	ND	1.83		mg/kg wet	2.40	76%	33 - 146	9040118	NSD0038-01RE 1	04/01/09 23:09
Ethylbenzene	4.21	6.19		mg/kg wet	2.40	83%	16 - 160	9040118	NSD0038-01RE 1	04/01/09 23:09
Naphthalene	4.41	5.08		mg/kg wet	2.40	28%	10 - 151	9040118	NSD0038-01RE 1	04/01/09 23:09
Toluene	1.24	3.02		mg/kg wet	2.40	74%	30 - 145	9040118	NSD0038-01RE 1	04/01/09 23:09
Xylenes, total	25.3	30.8		mg/kg wet	7.20	75%	16 - 159	9040118	NSD0038-01RE 1	04/01/09 23:09
Surrogate: 1,2-Dichloroethane-d4		47.0		ug/kg	50.0	94%	41 - 150	9040118	NSD0038-01RE 1	04/01/09 23:09
Surrogate: Dibromofluoromethane		46.8		ug/kg	50.0	94%	55 - 139	9040118	NSD0038-01RE 1	04/01/09 23:09
Surrogate: Toluene-d8		50.3		ug/kg	50.0	101%	57 - 148	9040118	NSD0038-01RE 1	04/01/09 23:09
Surrogate: 4-Bromofluorobenzene		57.1		ug/kg	50.0	114%	58 - 150	9040118	NSD0038-01RE 1	04/01/09 23:09

Client EEG - Env	. Enterprise Group (2449)	Work Order:	NSC2487
10179 Hig	nway 78	Project Name:	Laurel Bay Housing Project
Ladson, SC	29456	Project Number:	[none]
Attn Tom McEl	wee	Received:	03/27/09 08:00

		PR	OJECI	F QUALITY Matrix Sp			DATA					
Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rcc.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Polyaromatic Hydrocarbons by	EPA 8270D											
9034242-MSD1												
Acenaphthene	ND	1.30		mg/kg dry	2.12	61%	28 - 117	17	33	9034242	NSC2487-02	03/30/09 14:01
Acenaphthylene	ND	1.29		mg/kg dry	2.12	61%	33 - 113	18	38	9034242	NSC2487-02	03/30/09 14:01
Anthracene	ND	1.45		mg/kg dry	2.12	69%	31 - 131	14	32	9034242	NSC2487-02	03/30/09 14:01
Benzo (a) anthracene	ND	1.35		mg/kg dry	2.12	64%	29 - 124	17	26	9034242	NSC2487-02	03/30/09 14:01
Benzo (a) pyrene	ND	1.38		mg/kg dry	2.12	65%	30 - 127	19	31	9034242	NSC2487-02	03/30/09 14:01
Benzo (b) fluoranthene	ND	1.47		mg/kg dry	2.12	69%	26 - 128	4	37	9034242	NSC2487-02	03/30/09 14:01
Benzo (g,h,i) perylene	ND	1.33		mg/kg dry	2.12	63%	21 - 122	16	28	9034242	NSC2487-02	03/30/09 14:01
Benzo (k) fluoranthene	ND	1.24		mg/kg dry	2.12	58%	20 - 130	28	35	9034242	NSC2487-02	03/30/09 14:01
Chrysene	ND	1.34		mg/kg dry	2.12	63%	30 - 119	19	31	9034242	NSC2487-02	03/30/09 14:01
Dibenz (a,h) anthracene	ND	1.33		mg/kg dry	2.12	63%	27 - 122	18	32	9034242	NSC2487-02	03/30/09 14:01
Fluoranthene	0.0427	1.31		mg/kg dry	2.12	60%	23 - 132	13	36	9034242	NSC2487-02	03/30/09 14:01
Fluorenc	ND	1.30		mg/kg dry	2.12	61%	38 - 110	17	35	9034242	NSC2487-02	03/30/09 14:01
Indeno (1,2,3-cd) pyrene	ND	1.33		mg/kg dry	2.12	63%	24 - 122	20	28	9034242	NSC2487-02	03/30/09 14:01
Naphthalene	ND	1.12		mg/kg dry	2.12	53%	14 - 117	15	34	9034242	NSC2487-02	03/30/09 14:01
Phenanthrene	ND	1.34		mg/kg dry	2.12	63%	21 - 130	15	33	9034242	NSC2487-02	03/30/09 14:01
Ругепе	0.0522	1.51		mg/kg dry	2.12	69%	24 - 133	18	36	9034242	NSC2487-02	03/30/09 14:01
Surrogate: Terphenyl-d14		1.27		mg/kg dry	2.12	60%	26 - 128			9034242	NSC2487-02	03/30/09 14:01
Surrogate: 2-Fluorobiphenyl		1.16		mg/kg dry	2.12	55%	19 - 109			9034242	NSC2487-02	03/30/09 14:01
Surrogate: Nitrobenzene-d5		1.05		mg/kg dry	2.12	49%	22 - 104			9034242	NSC2487-02	03/30/09 14:01
Selected Volatile Organic Comp	ounds by EPA	Method 82	50B									
9034691-MSD1												
Benzene	ND	3.52		mg/kg dry	3.15	112%	33 - 146	7	43	9034691	NSC2487-04RE	03/31/09 23:11
Ethylbenzene	1.64	5.13		mg/kg dry	3.15	111%	16 - 160	4	48	9034691	1 NSC2487-04RE	03/31/09 23:11
Naphthalene	13.5	16.0		mg/kg dry	3.15	78%	10 - 151	0.1	50	9034691	NSC2487-04RE	03/31/09 23:11
Toluene	ND	3.29		mg/kg dry	3.15	104%	30 - 145	7	44	9034691	NSC2487-04RE	03/31/09 23:11
Xylenes, total	1.84	12.2		mg/kg dry	9.44	110%	16 - 159	5	48	9034691	NSC2487-04RE	03/31/09 23:11
Surrogate: 1,2-Dichloroethane-d4		51.2		ug/kg	50.0	102%	41 - 150			9034691	NSC2487-04RE	03/31/09 23:11
Surrogate: Dibromofluoromethane		49.2		ug/kg	50.0	98%	55 - 139			9034691	NSC2487-04RE	03/31/09 23:11
Surrogate: Toluene-d8		50.7		ug/kg	50.0	101%	57 - 148			9034691	NSC2487-04RE	03/31/09 23:11
Surrogate: 4-Bromofluorobenzene		56.6		ug/kg	50.0	113%	58 - 150			9034691	NSC2487-04RE	03/31/09 23:11
9040118-MSD1												
Benzene	ND	1.74		mg/kg wet	2.40	73%	33 - 146	5	43	9040118	NSD0038-01R E1	04/01/09 23:39
Ethylbenzene	4.21	6.11		mg/kg wet	2.40	80%	16 - 160	1	48	9040118	NSD0038-01R E1	04/01/09 23:39

THE LEADER IN ENVIRONMENTAL TESTING

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

Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSC2487
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/27/09 08:00

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Rangc	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Selected Volatile Organic Compo	ounds by EPA !	Method 820	60 B									
9040118-MSD1 Naphthalene	4.41	5.09		mg/kg wet	2.40	28%	10 - 151	0.3	50	9040118	NSD0038-01R El	04/01/09 23:39
Toluene	1.24	2.96		mg/kg wet	2.40	72%	30 - 145	2	44	9040118	NSD0038-01R	04/01/09 23:39
Xylenes, total	25.3	30.0		mg/kg wet	7.20	65%	16 - 159	2	48	9040118	E1 NSD0038-01R E1	04/01/09 23:39
Surrogate: 1,2-Dichloroethane-d4		48.5		ug/kg	50.0	97%	41 - 150			9040118	NSD0038-01R	04/01/09 23:39
Surrogate: Dibromofluoromethane		46.8		ug/kg	50.0	94%	55 - 139			9040118	E1 NSD0038-01R	04/01/09 23:39
Surrogate: Toluene-d8		50.3		ug/kg	50.0	101%	57 - 148			9040118	E1 NSD0038-01R	04/01/09 23:39
Surrogate: 4-Bromofluorobenzene		58.0		ug/kg	50.0	116%	58 - 150			9040118	E1 NSD0038-01R E1	04/01/09 23:39



Client EE	G - Env. Enterprise Group (2449)	Work Order:	NSC2487
101	179 Highway 78	Project Name:	Laurel Bay Housing Project
Lad	dson, SC 29456	Project Number:	[none]
Attn Tor	m McElwee	Received:	03/27/09 08:00

TestAmerica Nashville

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

CERTIFICATION SUMMARY



Client EEG - Env. Enterprise Group (2449)	Work Order:	NSC2487
10179 Highway 78	Project Name:	Laurel Bay Housing Project
Ladson, SC 29456	Project Number:	[none]
Attn Tom McElwee	Received:	03/27/09 08:00

DATA QUALIFIERS AND DEFINITIONS

- **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

NSC2487 04/10/09 23:59																													
	TESTING	Nashville 2960 Fos Nashville	ter Crei	ightor	1				il Fre	19: 61 99: 80 1x: 61	00-7(85-09	080							metho	ods, is i	this wo urpose:	rk bein s?	roper a g cond ance N	ucted f	ж	Yes	ŝ	No
	10179 Highway	78									_												Enfor	cemen	t Action	?	Yes	s	No
	Ladson, SC 29-										_							Site	State:	SC									
Project Manager:			ee@ee	ainc.n	et							87	9		-				PO#:	F	28	29							
Telephone Number:				*		Fa	x No		84	3				01	10	/	т	A Qu	iote #:										
Sampler Name: (Print)		434	20						.	_			A	4				Рюје	ect ID:	Laure	l Bay H	lousing	Proje	ct					
Sampler Signature:	A	NO																Pro	ect #:										
		1				ſ	5	P	reser	vative				Ma	atrix		Т					A	nalyze	For:					1
Sample 1D / Description 152 LAURE Bay Blus 156 LAURE Bay Blus -1 150 Louna / Bay Blod-2 160 Cypan 25	3/23/07 3/24/09 3/24/09 3/24/09	1035 1030 1430	4 4 4 10 of Containers Shipped	XXX Gab	Composite	Field Filtered	tee	2 2	NaOH (Orange Label)	H-SO ₄ Plantic (Yethow Latbel)	N N N None (Black Label)	<u>- く</u>	Groundwater	Wastewater	Studge	N X X Sel		W 4 W BTEX + Napth - 8260t	W W PAH - 8270C					NS	249		24 2 2		RUSH TAT (Pre-Schedule
							1				1																	-	
Special Instructions: Relinquished by:	3/26/ Bate	09	Tim /90 Tim	20	Receiv Receiv	red by	- EC	1	- X	ment:	:				ate ate T	FEC		Time	•	Labo	Temp		e Upon	Receil	_	, Le e			Y

ATTACHMENT A



NON-HAZARDOUS MANIFEST

CWAH

I.

Year

Year

Year

Year

Month Dav

WASTE MANAGEMENT (Form designed for use on elite (12-pitch) typewriter. Please print or type. Generator's US EPA ID No. Generatus sos er a lo tot. 2. Page 1 **NON-HAZARDOUS MANIFEST** of 🖠 10005481 MCAS, Beaufort Laurel Bay Hous Beaufort SC 299 WMNA B. State Generator's ID Generator's Phone 843 228-6460 Transporter 1 Company Name US EPA ID Number C. State Transporter's ID 6. D. Transporter's Phone 843 879-041 EEG. Inc. Transporter 2 Company Name 8. US EPA ID Number E. State Transporter's ID F. Transporter's Phone 9. Designated Facility Name and Site Address 10. US EPA ID Number G. State Facility's ID HICKORY HILL LANDFILL H. Facility's Phone **ROUTE 1, BOX 121** 843 987-4643 1. Description of Waste Materials 12. Containers 13. Total Misc. Comments No. Type Heating Oil Tank filed with Sand WM Profile # 102855SC 0 0 1 E N E R b. A T O WM Profile # ĥ Ċ. WM Profile # d. WM Profile # K. Disposal Location J. Additional Descriptions for Materials Listed Above Cell Landfill Solidification Level **Bio Remediation** Grid Land | Kay Plate Shite Enviel Bay Bul-2 15. Special Handling Instructions and Additional Information 14 5 5 8 647 4 64 15 Low Bay Ales 1) 10 C 1 994 6 499 EMERGENCY CONTACT: Purchase Order # GENERATOR'S CERTIFICATION: 16. I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations. Printed/Typed Name/ Signature "On behalf of" Month Day ". H. Herror P1312171019 115 0 17. Transporter 1 Acknowledgement of Receipt of Materials TRANSPORTER Printed/Typed Name Month Day Signature Same 3 ĩ 10131310101 Transporter 2 Acknowledgement of Receipt of Materials 18. Printed/Typed Name Month Day Signature 19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above. 20. Facitility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed/Typed Name

#4 - GENERATOR #2 COPY

Signature

Ĝ

Appendix C Laboratory Analytical Report - Groundwater



Client: AECOM - Res Description: BEALB152TV	V01G20130722						Laboratory ID: Matrix:	OG23017- Aqueous	004		
Date Sampled: 07/22/2013 15	500										
Date Received: 07/23/2013											
Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1	Analysis [07/30/2013	•	Prep D	ate	Batch 26172				
Parameter			CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzene			71-43-2	8260B	ND		0.50	0.25	0.027	ug/L	1
Ethylbenzene			100-41-4	8260B	ND		0.50	0.25	0.17	ug/L	1
Naphthalene			91-20-3	8260B	0.20	J	0.50	0.25	0.12	ug/L	1
Toluene			108-88-3	8260B	ND		0.50	0.25	0.17	ug/L	1
Xylenes (total)		1	330-20-7	8260B	ND		0.50	0.25	0.17	ug/L	1
Surrogate	Q	Run 1 % Recov									
1,2-Dichloroethane-d4		92	70-	120							
Toluene-d8		88	85-1	120							
Bromofluorobenzene		94	75-7	120							
Dibromofluoromethane		91	85-1	115							

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

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

 Where applicable, all soil sample analysis ar 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

Semivolatile Orga	nic Compounds	by GC/MS
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Client: AECOM - Res	olution Consultants					La	boratory II	D: OG23017-0	04		
Description: BEALB152TW	01G20130722						Matri	ix: Aqueous			
Date Sampled: 07/22/2013 15	00										
Date Received: 07/23/2013											
Run Prep Method 1 3520C	Analytical Method 8270D	Dilution 1	Analysis D 07/24/2013	,	Prep D 07/23/20		Batch 25626				
Parameter			CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzo(a)anthracene			56-55-3	8270D	ND		0.20	0.10	0.084	ug/L	1
Benzo(b)fluoranthene			205-99-2	8270D	ND		0.20	0.10	0.089	ug/L	1
Benzo(k)fluoranthene			207-08-9	8270D	ND		0.20	0.10	0.094	ug/L	1
Chrysene			218-01-9	8270D	ND		0.20	0.10	0.055	ug/L	1
Dibenzo(a,h)anthracene			53-70-3	8270D	ND		0.20	0.10	0.059	ug/L	1
Surrogate	Q	Run 1 % Recov									
2-Fluorobiphenyl		78	50-1	10							
Nitrobenzene-d5		79	40-1	10							
Terphenyl-d14		85	50-1	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

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

 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
 S = MS/MSD failure

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

Level 1 Report v2.1

Appendix D Regulatory Correspondence





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

July 22, 2009

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

Re: MCAS – Laurel Bay Housing – 152 Laurel Bay Blvd. **Site ID # 04234** UST Closure Reports received June 29, 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. , 1 Cont

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)

	ing Well Investigation recommendation (10 addresses/11 tanks)
19 Banyan	156 Laurel Bay
128 Banyan	1033 Foxglove
132 Banyan	1055 Gardenia
135 Birch	1059 Gardenia
148 Laurel Bay	1168 Jasmine
No Furt	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 Cypress	1061 Gardenia
263 Beech	1166 Jasmine
	1169 Jasmine
269 Birch	1107 Justime