SUMMARY REPORT 124 BEECH STREET (FORMERLY 263 BEECH 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:



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



Summary Report 124 Beech Street (Formerly 263 Beech 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 124 Beech Street (Formerly 263 Beech 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 124 Beech Street (Formerly 263 Beech Street). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 263 Beech 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 March 31, 2009, two 280 gallon heating oil USTs were removed at 124 Beech Street (Formerly 263 Beech Street). Tank 1 was removed from the front landscaped bed area adjacent to the driveway. Tank 2 was removed from the front grassed area adjacent to the driveway. The former UST locations are indicated in Figures 2 and 3 of the UST Assessment Report



(Appendix B). The USTs were removed, cleaned, and shipped offsite for recycling. There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depths to the bases of the USTs were 5'6" (Tank 1) and 4'2" (Tank 2) bgs and a single soil sample was collected for each at that depth. The samples were collected from the fill port side of the former USTs to represent a worst case scenario.

Following UST removal, a soil sample was collected from the base of each 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 locations (Tanks 1 and 2) were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from the former UST locations (Tanks 1 and 2) at 124 Beech Street (Formerly 263 Beech Street) were greater than the SCDHEC July 22, 2009, SCDHEC requested an IGWAs be conducted at the former UST locations (Tanks 1 and 2) at 124 Beech Street (Formerly 263 Beech 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 17, 2013, a temporary monitoring well was installed at 124 Beech Street (Formerly 263 Beech 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 USTs (Tanks 1 and 2). The former UST locations are indicated in 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 124 Beech Street (Formerly 263 Beech 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 USTs at concentrations that present a potential risk to human health and the environment.

3.0 **PROPERTY STATUS**

Based on the analytical results for groundwater, SCDHEC made the determination that NFA was required for 124 Beech Street (Formerly 263 Beech 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 263 Beech Street, 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 124 Beech Street (Formerly 263 Beech Street) Laurel Bay Military Housing Area Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Samples Collected 3/31/09		
		263 Beech-1	263 Beech-2	
Volatile Organic Compounds Analyzed	by EPA Method 8260B (mg/kg)			
Benzene	0.003	0.00484	0.0121	
Ethylbenzene	1.15	ND	0.127	
Naphthalene	0.036	0.0676	4.08	
Toluene	0.627	ND	ND	
Xylenes, Total	13.01	ND	0.0666	
Semivolatile Organic Compounds Ana	lyzed by EPA Method 8270D (mg/kg)			
Benzo(a)anthracene	0.66	ND	ND	
Benzo(b)fluoranthene	0.66	ND	ND	
Benzo(k)fluoranthene	0.66	ND	ND	
Chrysene	0.66	ND	ND	
Dibenz(a,h)anthracene	0.66	ND	ND	

Notes:

⁽¹⁾ South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 1.0 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 2Laboratory Analytical Results - Groundwater124 Beech Street (Formerly 263 Beech Street)Laurel Bay Military Housing AreaMarine Corps Air Station BeaufortBeaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Site-Specific Groundwater VISLs (µg/L) ⁽²⁾	Results Sample Collected 07/17/13
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	2.0
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 Use	Only	Submit Completed UST Program SCDHEC 2600 Bull Street Columbia, South C Telephone (803) 89	Form To: arolina 29201 6-7957 RECEIVED
0			JUN 2 9 2009
	I. OWNERSHIP C	OF UST (S)	SITE ASSESSMENT, REMEDIATION & REVITALIZATION
MCAS Beaufort, Comma Owner Name (Corporation, Inc P.O. Box 55001	nding Officer Attn: NRI lividual, Public Agency, Other)	EAO (Craig Ehde	e)
Mailing Address	- 1 ha 1 h -		
Beaufort,	South Carolina	29904-5001	
City	State	Zip Code	
843	228-7317	Cr	aig Ehde
Area Code	Telephone Number	Conta	act Person

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. #	- Housing Duce Ma	wine Come	Nim Ctation	Deputert CC
Facility Name or Company	Site Identifier	trine corps	AIT Station,	Beaulort, SC
263 Beech St., La	urel Bay Military D	Housing Are	a	
Street Address or State Roa	d (as applicable)			
Beaufort,	Beaufort			
City	County			

Attachment 2

٦

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____** (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

		263Beech-1	263Beech-2
A.	Product(ex. Gas, Kerosene)	Heating oil	Heating oil
B.	Capacity(ex. 1k, 2k)	280 gal	280 gal
C.	Age	Late 1950s	Late 1950s
D.	Construction Material(ex. Steel, FRP)	Steel	Steel
E.	Month/Year of Last Use	Mid 1980s	Mid 1980s
F.	Depth (ft.) To Base of Tank	5'6"	4'2"
G.	Spill Prevention Equipment Y/N	No	No
H.	Overfill Prevention Equipment Y/N	No	No
T	Mathad of Clasura Paravad/Eillad	Removed	Removed
1. J.	Date Tanks Removed/Filled	3/31/09	3/31/09
K.	Visible Corrosion or Pitting Y/N	Yes	Yes
L.	Visible Holes Y/N	Yes	Yes

M. Method of disposal for any USTs removed from the ground (attach disposal manifests) UST 263Beech-1 was removed from the ground, cleaned and recycled.

<u>UST 263Beech-2 was removed from the ground and disposed of at a</u> Subtitle D landfill. See Attachment "A."

- N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests) <u>Fluid from tank 263Beech-1 was pumped from the tank and disposed of</u> by MCAS. <u>UST 263Beech-2 was filled with sand.</u>
- 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 both tanks.

VII. PIPING INFORMATION

		263Beech-1	263Beech-2
		Steel	Steel
A.	Construction Material(ex. Steel, FRP)	/Copper	/Copper
B.	Distance from UST to Dispenser	N/A	N/A
C.	Number of Dispensers	N/A	N/A
D.	Type of System Pressure or Suction	Suction	Suction
E.	Was Piping Removed from the Ground? Y/N	Yes*	Yes*
F	Visible Corrosion or Pitting Y/N	Unknown	Unknown
		Unknown	Unknown
G.	Visible Holes Y/N	· · · · · · · · · · · · · · · · · · ·	
H.	Age	Early 1950s	Early 1950s
I.	If any corrosion, pitting, or holes were observed, des	scribe the location and exte	ent for each piping run.

*All piping was removed at an earlier date 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.

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? Mild odor came from excavation of both tanks. 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. 1	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.		х	

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 96012001

В.

	Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
263	Beech-1	Excav at fill end	Soil	Clay	5'6"	3/31/09 1115 hrs	P. Shaw	-
263	Beech-2	Excav at fill end	Soil	Clay	4'2"	3/31/09 1410 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.		
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: 263 Beech Street site conditions before excavation.



Picture 2: UST 263Beech-1 being prepared for removal.



Picture 3: UST 263Beech-2 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.

		· · · · · · · · · · · · · · · · · · ·
CoC	263Beech-1	263Beech-2
Benzene	0.00484 mg/kg	0.0121 mg/kg
Toluene	ND	ND
Ethylbenzene	ND	0.127 mg/kg
Xylenes	ND	0.0666 mg/kg
Naphthalene	0.0676 mg/kg	4.08 mg/kg
Benzo (a) anthracene	ND	ND
Benzo (b) fluoranthene	ND	ND
Benzo (k) fluoranthene	ND	ND
Chrysene	ND	ND
Dibenz (a, h) anthracene	ND	ND
TPH (EPA 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

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

April 17, 2009 4:54:25PM

Client: EEG - Env. Enterprise Group (2449) 10179 Highway 78 Ladson, SC 29456 Attn: Tom McElwee

SAMPLE IDENTIFICATION

269 Birch263 Beech-1263 Beech-2

LAB NUMBER

NSD0366-01 NSD0366-02 NSD0366-03

Work Order:

Project Name:

Project Nbr:

Date Received:

P/O Nbr:

NSD0366 Laurel Bay Housing Project [none] 0829 04/03/09

COLLECTION DATE AND TIME

03/30/09 13:35 03/31/09 11:15 03/31/09 14:10

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.

Additional Laboratory Comments: Tare weight label was not present on the VOC Methanol vial for sample NSD0366-01. South Carolina Certification Number: 84009001

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 & Hage

Ken A. Hayes Senior Project Manager

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)

10179 Highway 78 Ladson, SC 29456

Attn Tom McElwee

Work Order:NSD0366Project Name:Laurel Bay Housing ProjectProject Number:[none]Received:04/03/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSD0366-01 (269 B	irch - Soil) Sam	pled: 03/	30/09 13:35					
General Chemistry Parameters								
% Dry Solids	80.8		%	0.500	1	04/09/09 08:31	SW-846	9041148
Selected Volatile Organic Compound	ls by EPA Metho	d 8260B						
Benzene	ND		mg/kg dry	0.00188	1	04/08/09 16:54	SW846 8260B	9040586
Ethylbenzene	0.0344		mg/kg dry	0.00188	1	04/08/09 16:54	SW846 8260B	9040586
Naphthalene	0.702	STW	mg/kg dry	0.309	50	04/10/09 18:19	SW846 8260B	9041622
Toluene	ND		mg/kg dry	0.00188	1	04/08/09 16:54	SW846 8260B	9040586
Xvlenes, total	0.119		mg/kg dry	0.00469	1	04/08/09 16:54	SW846 8260B	9040586
Surr: 1.2-Dichloroethane-d4 (41-150%)	99 %		<u>9</u> 9	0100105		04/08/09 16:54	SW846 8260B	9040586
Surr: 1,2-Dichloroethane-d4 (41-150%)	100 %					04/10/09 18:19	SW846 8260B	9041622
Surr: Dibromofluoromethane (55-139%)	100 %					04/08/09 16:54	SW846 8260B	9040586
Surr: Dibromofluoromethane (55-139%)	97 %					04/10/09 18:19	SW846 8260B	9041622
Surr: Toluene-d8 (57-148%)	105 %					04/08/09 16:54	SW846 8260B	9040586
Surr: Toluene-d8 (57-148%)	95 %					04/10/09 18:19	SW846 8260B	9041622
Surr: 4-Bromofluorobenzene (58-150%)	111 %					04/08/09 16:54	SW846 8260B	9040586
Surr: 4-Bromofluorobenzene (58-150%)	86 %					04/10/09 18:19	SW846 8260B	9041622
Polyaromatic Hydrocarbons by EPA	8270D							
Acenaphthene	0.238		mg/kg dry	0.0823	1	04/05/09 15:19	SW846 8270D	9040621
Acenaphthylene	ND		mg/kg dry	0.0823	1	04/05/09 15:19	SW846 8270D	9040621
Anthracene	ND		mg/kg dry	0.0823	1	04/05/09 15:19	SW846 8270D	9040621
Benzo (a) anthracene	ND		mg/kg dry	0.0823	1	04/05/09 15:19	SW846 8270D	9040621
Benzo (a) pyrene	ND		mg/kg dry	0.0823	1	04/05/09 15:19	SW846 8270D	9040621
Benzo (b) fluoranthene	ND		mg/kg drv	0.0823	1	04/05/09 15:19	SW846 8270D	9040621
Benzo (g h i) pervlene	ND		mg/kg dry	0.0823	1	04/05/09 15:19	SW846 8270D	9040621
Benzo (k) fluoranthene	ND		mg/kg dry	0.0823	1	04/05/09 15:19	SW846 8270D	9040621
Chrysene	ND		mg/kg dry	0.0823	1	04/05/09 15:19	SW846 8270D	9040621
Dibenz (a h) anthracene	ND		mg/kg dry	0.0823	1	04/05/09 15:19	SW846 8270D	9040621
Eluoranthene	ND		mg/kg dry	0.0823	1	04/05/09 15:19	SW846 8270D	0040621
	ND 0.502		mg/kg diy	0.0823	1	04/05/09 15.19	SW 640 6270D	9040021
	0.592		mg/kg dry	0.0823	1	04/05/09 15:19	SW846 8270D	9040621
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0823	I	04/05/09 15:19	SW846 8270D	9040621
Naphthalene	0.372		mg/kg dry	0.0823	1	04/05/09 15:19	SW846 8270D	9040621
Phenanthrene	1.33		mg/kg dry	0.0823	1	04/05/09 15:19	SW846 8270D	9040621
Pyrene	0.123		mg/kg dry	0.0823	1	04/05/09 15:19	SW846 8270D	9040621
Surr: Terphenyl-d14 (26-128%)	84 %					04/05/09 15:19	SW846 8270D	9040621
Surr: 2-Fluorobiphenyl (19-109%)	68 %					04/05/09 15:19	SW846 8270D	9040621
Surr: Nitrobenzene-d5 (22-104%)	53 %					04/05/09 15:19	SW846 8270D	9040621

THE LEADER IN ENVIRONMENTAL TESTING

 Client
 EEG - Env. Enterprise Group (2449)
 Work Order:
 NSD0366

 10179 Highway 78
 Project Name:
 Laurel Bay Housing Project

 Ladson, SC 29456
 Project Number:
 [none]

 Attm
 Tom McElwee
 04/03/09 08:00

		A	ANALYTICAL RE	PORT				
Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSD0366-02 (263 Bee	ech-1 - Soil) Sar	npled: 03	/31/09 11:15					
General Chemistry Parameters								
% Dry Solids	76.8		%	0.500	1	04/09/09 08:31	SW-846	9041148
Selected Volatile Organic Compounds	by EPA Method	8260B						
Benzene	0.00484		mg/kg dry	0.00216	1	04/08/09 17:24	SW846 8260B	9040586
Ethylbenzene	ND		mg/kg dry	0.00216	1	04/08/09 17:24	SW846 8260B	9040586
Naphthalenc	0.0676		mg/kg dry	0.00539	1	04/09/09 20:09	SW846 8260B	9041646
Toluene	ND		mg/kg dry	0.00216	1	04/08/09 17:24	SW846 8260B	9040586
Xylenes, total	ND		mg/kg dry	0.00539	1	04/08/09 17:24	SW846 8260B	9040586
Surr: 1,2-Dichloroethane-d4 (41-150%)	102 %					04/08/09 17:24	SW846 8260B	9040586
Surr: 1,2-Dichloroethane-d4 (41-150%)	102 %					04/09/09 20:09	SW846 8260B	9041646
Surr: Dibromofluoromethane (55-139%)	99 %			_		04/08/09 17:24	SW846 8260B	9040586
Surr: Dibromofluoromethane (55-139%)	102 %					04/09/09 20:09	SW846 8260B	9041646
Surr: Toluene-d8 (57-148%)	97 %					04/08/09 17:24	SW846 8260B	9040586
Surr: Toluene-d8 (57-148%)	101 %					04/09/09 20:09	SW846 8260B	9041646
Surr: 4-Bromofluorobenzene (58-150%)	95 %					04/08/09 17:24	SW846 8260B	9040586
Surr: 4-Bromofluorobenzene (58-150%)	105 %					04/09/09 20:09	SW846 8260B	9041646
Polyaromatic Hydrocarbons by EPA 8	270D							
Acenaphthene	ND		mg/kg dry	0.0848	1	04/05/09 15:42	SW846 8270D	9040621
Acenaphthylene	ND		mg/kg dry	0.0848	1	04/05/09 15:42	SW846 8270D	9040621
Anthracene	ND		mg/kg dry	0.0848	1	04/05/09 15:42	SW846 8270D	9040621
Benzo (a) anthracene	ND		mg/kg dry	0.0848	1	04/05/09 15:42	SW846 8270D	9040621
Benzo (a) pyrene	ND		mg/kg dry	0.0848	1	04/05/09 15:42	SW846 8270D	9040621
Benzo (b) fluoranthenc	ND		mg/kg dry	0.0848	1	04/05/09 15:42	SW846 8270D	9040621
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0848	1	04/05/09 15:42	SW846 8270D	9040621
Benzo (k) fluoranthene	ND		mg/kg dry	0.0848	1	04/05/09 15:42	SW846 8270D	9040621
Chrysene	ND		mg/kg dry	0.0848	1	04/05/09 15:42	SW846 8270D	9040621
Dibenz (a,h) anthracene	ND		mg/kg drv	0.0848	1	04/05/09 15:42	SW846 8270D	9040621
Fluoranthene	ND		mg/kg drv	0.0848	1	04/05/09 15:42	SW846 8270D	9040621
Fluorene	ND		mg/kg dry	0.0848	1	04/05/09 15:42	SW846 8270D	9040621
Indeno (1.2.3-cd) nyrene	ND		mg/kg dry	0.0848	1	04/05/09 15:42	SW846 8270D	9040621
Naphthalene	ND		mg/kg dry	0.0848	1	04/05/09 15:42	SW846 8270D	0040621
Phenanthrene	0.176		mg/kg dry	0.0848	1	04/05/09 15:42	SW846 8270D	0040621
Durono			mg/kg day	0.0040	1	04/05/00 15:42	SW846 8370D	0040621
ryrene Senne Tambamil dl (26 1289/)	ערו 77 0⁄		mg/kg ury	0.0040	1	04/05/09 15.42	SW046 0370D	0040621
Surr. 1erpnenyl-014 (20-12070) Surr: 2 Fluorohinhamul (10, 1009/)	// %0 52 0/					04/05/09 15:42	SW 840 82/0D	9040021
Surr: Nitrobenzene-d5 (22-104%)	JJ /0 44 %					04/05/09 15:42	SW846 8270D	9040021
3411.11410000000000000000000000000000000	77 /0					19/11/17 1.1 4/	DH 040 02/00	20400/1

THE LEADER IN ENVIRONMENTAL TESTING

 Client
 EEG - Env. Enterprise Group (2449)
 Work Order:
 NSD0366

 10179 Highway 78
 Project Name:
 Laurel Bay Housing Project

 Ladson, SC 29456
 Project Number:
 [none]

 Attm
 Tom McElwee
 Received:
 04/03/09 08:00

		A	NALYTICAL REI	PORT				
Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSD0366-03 (263 Bee	ch-2 - Soil) San	npled: 03	/31/09 14:10					
General Chemistry Parameters								
% Dry Solids	7 4.6		%	0.500	1	04/09/09 08:31	SW-846	9041148
Selected Volatile Organic Compounds	by EPA Method	8260B						
Benzene	0.0121		mg/kg dry	0.00231	1	04/08/09 17:55	SW846 8260B	9040586
Ethylbenzene	0.127		mg/kg dry	0.00231	1	04/08/09 17:55	SW846 8260B	9040586
Naphthalene	4.08		mg/kg dry	0.280	50	04/10/09 18:50	SW846 8260B	9041622
Toluene	ND		mg/kg dry	0.00231	1	04/08/09 17:55	SW846 8260B	9040586
Xylenes, total	0.0666		mg/kg dry	0.00577	1	04/08/09 17:55	SW846 8260B	9040586
Surr: 1.2-Dichloroethane-d4 (41-150%)	97 %		00,			04/08/09 17.55	SW846 8260B	9040586
Surr: 1,2-Dichloroethane-d4 (41-150%)	101 %					04/10/09 18:50	SW846 8260B	9041622
Surr: Dibromofluoromethane (55-139%)	98 %					04/08/09 17:55	SW846 8260B	9040586
Surr: Dibromofluoromethane (55-139%)	99 %					04/10/09 18:50	SW846 8260B	9041622
Surr: Toluene-d8 (57-148%)	109 %					04/08/09 17:55	SW846 8260B	9040586
Surr: Toluene-d8 (57-148%)	95 %					04/10/09 18:50	SW846 8260B	9041622
Surr: 4-Bromofluorobenzene (58-150%)	116 %					04/08/09 17:55	SW846 8260B	9040586
Surr: 4-Bromofluorobenzene (58-150%)	96 %					04/10/09 18:50	SW846 8260B	9041622
Polyaromatic Hydrocarbons by EPA 82	270D							
Acenaphthene	0.383		mg/kg dry	0.0886	1	04/05/09 16:05	SW846 8270D	9040621
Acenaphthylene	ND		mg/kg dry	0.0886	1	04/05/09 16:05	SW846 8270D	9040621
Anthracene	0.171		mg/kg dry	0.0886	1	04/05/09 16:05	SW846 8270D	9040621
Benzo (a) anthracene	ND		mg/kg dry	0.0886	1	04/05/09 16:05	SW846 8270D	9040621
Benzo (a) pyrene	ND		mg/kg drv	0.0886	1	04/05/09 16:05	SW846 8270D	9040621
Benzo (b) fluoranthene	ND		mg/kg dry	0.0886	1	04/05/09 16:05	SW846 8270D	9040621
Benzo (g h i) pervlene	ND		mg/kg dry	0.0886	1	04/05/09 16:05	SW846 8270D	9040621
Benzo (k) fluoranthene	ND		mg/kg dry	0.0886	1	04/05/09 16:05	SW846 8270D	9040621
Chrysene	ND		mg/kg dry	0.0886	1	04/05/09 16:05	SW846 8270D	0040621
Dibonz (a h) anthracana	ND		mg/kg dry	0.0886	1	04/05/09 16:05	SW846 8270D	0040621
Elucronthone	ND 0.212		mg/kg dry	0.0000	1	04/05/09 10:05	SW846 8270D	0040621
	0.212		mg/kg cuy	0.0886	1	04/05/09 16:05	SW640 6270D	9040021
Fluorene	0.902		mg/kg dry	0.0886	1	04/05/09 16:05	SW846 8270D	9040621
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0886	1	04/05/09 16:05	SW846 8270D	9040621
Naphthalene	1.61		mg/kg dry	0.0886	1	04/05/09 16:05	SW846 8270D	9040621
Phenanthrene	1.97		mg/kg dry	0.0886	1	04/05/09 16:05	SW846 8270D	9040621
Pyrene	0.305		mg/kg dry	0.0886	1	04/05/09 16:05	SW846 8270D	9040621
Surr: Terphenyl-d14 (26-128%)	89 %					04/05/09 16:05	SW846 8270D	9040621
Surr: 2-Fluorobiphenyl (19-109%)	69 %					04/05/09 16:05	SW846 8270D	9040621
Surr: Nitrobenzene-d5 (22-104%)	57 %					04/05/09 16:05	SW846 8270D	9040621

THE LEADER IN ENVIRONMENTAL TESTING

Client EEG - Env. Enterprise Group (2449) 10179 Highway 78 Ladson, SC 29456

Attn Tom McElwee

Work Order:NSD0366Project Name:Laurel Bay Housing ProjectProject Number:[none]Received:04/03/09 08:00

SAMPLE EXTRACTION DATA

			Wt/Vol				Extraction
Parameter	Batch	Lab Number	Extracted	Extracted Vol	Date	Analyst	Method
Polyaromatic Hydrocarbons by E	PA 8270D						
SW846 8270D	9040621	NSD0366-01	30.22	1.00	04/04/09 12:10	TEM	EPA 3550B
SW846 8270D	9040621	NSD0366-02	30.87	1.00	04/04/09 12:10	TEM	EPA 3550B
SW846 8270D	9040621	NSD0366-03	30.41	1.00	04/04/09 12:10	TEM	EPA 3550B
Selected Volatile Organic Compo	ounds by EPA Method	8260B					
SW846 8260B	9040586	NSD0366-01	6.60	5.00	03/30/09 13:35	JRL	EPA 5035
SW846 8260B	9041622	NSD0366-01RE1	5.00	5.00	03/30/09 13:35	JRL	EPA 5035
SW846 8260B	9040586	NSD0366-02	6.04	5.00	03/31/09 11:15	JRL	EPA 5035
SW846 8260B	9041646	NSD0366-02RE1	6.04	5.00	03/31/09 11:15	JRL	EPA 5035
SW846 8260B	9040586	NSD0366-03	5.81	5.00	03/31/09 14:10	JRL	EPA 5035
SW846 8260B	9041622	NSD0366-03RE1	5.98	5.00	03/31/09 14:10	JRL	EPA 5035

THE LEADER IN ENVIRONMENTAL TESTING

Client EEG - Env. Enterprise Group (2449)

10179 Highway 78

Ladson, SC 29456

Attn Tom McElwee

Work Order:	NSD0366
Project Name:	Laurel Bay Housing Project
Project Number:	[none]
Received:	04/03/09 08:00

PROJECT QUALITY CONTROL DATA Blank

Analyte	Blank Value	0	Units	O.C. Batch	I ab Number	Analyzed Date/Time	
Salastad Valatila Organia Compa	Shink (dido			Q.C. Built			
Selected Volathe Organic Compo	Junus by EFA Methou	02000					
9040586-BLK1 Benzene	<0.000670		ma/ka wet	9040586	9040586-BLK1	04/08/09 16:23	
Ethylhenzene	<0.000670		mg/kg wet	9040586	9040586-BLK1	04/08/09 16:23	
Nanhthalene	<0.000070		mg/kg wet	9040586	9040586-BLK1	04/08/09 16:23	
Toluene	0.00140		mg/kg wet	9040586	9040586-BLK1	04/08/09 16:23	
Xylenes total	<0.00140		mg/kg wet	9040586	9040586-BLK1	04/08/09 16:23	
Surrogate: 12-Dichloroethane-d4	102%			9040586	9040586-BLK1	04/08/09 16:23	
Surrogate: Dibromofluoromethane	103%			9040586	9040586-BLK1	04/08/09 16:23	
Surrogate: Toluene-d8	95%			9040586	9040586-BLK1	04/08/09 16:23	
Surrogate: 4-Bromofluorobenzene	105%			9040586	9040586-BLK1	04/08/09 16:23	
9041622-BLK1							
Benzene	<0.000670		mg/kg wet	9041622	9041622-BLK1	04/10/09 16:42	
Ethylbenzene	<0.000670		mg/kg wet	9041622	9041622-BLK1	04/10/09 16:42	
Naphthalene	<0.00151		mg/kg wet	9041622	9041622-BLK1	04/10/09 16:42	
Toluene	<0.000670		mg/kg wet	9041622	9041622-BLK1	04/10/09 16:42	
Xylenes, total	<0.00172		mg/kg wet	9041622	9041622-BLK1	04/10/09 16:42	
Surrogate: 1,2-Dichloroethane-d4	97%			9041622	9041622-BLK1	04/10/09 16:42	
Surrogate: Dibromofluoromethane	101%			9041622	9041622-BLK1	04/10/09 16:42	
Surrogate: Toluene-d8	94%			9041622	9041622-BLK1	04/10/09 16:42	
Surrogate: 4-Bromofluorobenzene	82%			9041622	9041622-BLK1	04/10/09 16:42	
9041646-BLK1							
Benzene	<0.000670		mg/kg wet	9041646	9041646-BLK1	04/09/09 19:08	
Ethylbenzene	<0.000670		mg/kg wet	9041646	9041646-BLK1	04/09/09 19:08	
Naphthalene	<0.00151		mg/kg wet	9041646	9041646-BLK1	04/09/09 19:08	
Toluene	<0.000670		mg/kg wet	9041646	9041646-BLK1	04/09/09 19:08	
Xylenes, total	<0.00172		mg/kg wet	9041646	9041646-BLK1	04/09/09 19:08	
Surrogate: 1,2-Dichloroethane-d4	104%			9041646	9041646-BLK1	04/09/09 19:08	
Surrogate: Dibromofluoromethane	105%			9041646	9041646-BLK1	04/09/09 19:08	
Surrogate: Toluene-d8	93%			9041646	9041646-BLK1	04/09/09 19:08	
Surrogate: 4-Bromofluorobenzene	101%			9041646	9041646-BLK1	04/09/09 19:08	
Polyaromatic Hydrocarbons by H	EPA 8270D						
9040621-BLK1							
Acenaphthene	< 0.0310		mg/kg wet	9040621	9040621-BLK1	04/05/09 13:47	
Acenaphthylene	<0.0320		mg/kg wet	9040621	9040621-BLK1	04/05/09 13:47	
Anthracene	< 0.0330		mg/kg wet	9040621	9040621-BLK1	04/05/09 13:47	
Benzo (a) anthracene	< 0.0380		mg/kg wet	9040621	9040621-BLK1	04/05/09 13:47	
Benzo (a) pyrene	<0.0290		mg/kg wet	9040621	9040621-BLK1	04/05/09 13:47	
Benzo (b) fluoranthene	<0.0320		mg/kg wet	9040621	9040621-BLK1	04/05/09 13:47	
Benzo (g,h,i) perylene	<0.0290		mg/kg wet	9040621	9040621-BLK1	04/05/09 13:47	
Benzo (k) fluoranthene	< 0.0290		mg/kg wet	9040621	9040621-BLK1	04/05/09 13:47	

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:	NSD0366
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/03/09 08:00

PROJECT QUALITY CONTROL DATA Blank - Cont.

Алајуtе	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Polyaromatic Hydrocarbons by	EPA 8270D					
9040621-BLK1						
Chrysene	<0.0390		mg/kg wet	9040621	9040621-BLK1	04/05/09 13:47
Dibenz (a,h) anthracene	< 0.0310		mg/kg wet	9040621	9040621-BLK1	04/05/09 13:47
Fluoranthene	<0.0340		mg/kg wet	9040621	9040621-BLK1	04/05/09 13:47
Fluorene	<0.0390		mg/kg wet	9040621	9040621-BLK1	04/05/09 13:47
Indeno (1,2,3-cd) pyrene	< 0.0310		mg/kg wet	9040621	9040621-BLK1	04/05/09 13:47
Naphthalene	< 0.0410		mg/kg wet	9040621	9040621-BLK1	04/05/09 13:47
Phenanthrene	< 0.0340		mg/kg wet	9040621	9040621-BLK1	04/05/09 13:47
Pyrene	< 0.0410		mg/kg wet	9040621	9040621-BLK1	04/05/09 13:47
Surrogate: Terphenyl-d14	86%			9040621	9040621-BLK1	04/05/09 13:47
Surrogate: 2-Fluorobiphenyl	68%			9040621	9040621-BLK1	04/05/09 13:47
Surrogate: Nitrobenzene-d5	49%			9040621	9040621-BLK1	04/05/09 13:47

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) 10179 Highway 78 Ladson, SC 29456 Attn Tom McElwee Work Order:NSD0366Project Name:Laurel Bay Housing ProjectProject Number:[none]Received:04/03/09 08:00

PROJECT QUALITY CONTROL DATA

Duplicate

Analyte	Orig, Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
General Chemistry Parameters 9041148-DUP1 % Dry Solids	81.9	84.2		%	3	20	9041148	NSD0360-02	04/09/09 08:31

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica

Client EEG - Env. Enterprise Group (2449)

10179 Highway 78

Ladson, SC 29456

Attn Tom McElwee

Work Order:	NSD0366
Project Name:	Laurel Bay Housing Project
Project Number:	[none]
Received:	04/03/09 08:00

PROJECT QUALITY CONTROL DATA

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						
9040586-BS1								
Benzene	50.0	46.6		ug/kg	93%	76 - 130	9040586	04/08/09 14:07
Ethylbenzene	50.0	47.2		ug/kg	94%	80 - 128	9040586	04/08/09 14:07
Naphthalene	50.0	44.0		ug/kg	88%	63 - 144	9040586	04/08/09 14:07
Toluene	50.0	46.7		ug/kg	93%	80 - 125	9040586	04/08/09 14:07
Xylenes, total	150	143		ug/kg	95%	79 - 130	9040586	04/08/09 14:07
Surrogate: 1,2-Dichloroethane-d4	50.0	49.0			98%	41 - 150	9040586	04/08/09 14:07
Surrogate: Dibromofluoromethane	50.0	50.1			100%	55 - 139	9040586	04/08/09 14:07
Surrogate: Toluene-d8	50.0	47.5			95%	57 - 148	9040586	04/08/09 14:07
Surrogate: 4-Bromofluorobenzene	50.0	48.2			96%	58 - 150	9040586	04/08/09 14:07
9041622-BS1								
Benzene	50.0	42.0		ug/kg	84%	76 - 130	9041622	04/10/09 14:31
Ethylbenzene	50.0	40.7		ug/kg	81%	80 - 128	9041622	04/10/09 14:31
Naphthalene	50.0	35.8		ug/kg	72%	63 - 144	9041622	04/10/09 14:31
Toluene	50.0	40.7		ug/kg	81%	80 - 125	9041622	04/10/09 14:31
Xylenes, total	150	123		ug/kg	82%	79 - 130	9041622	04/10/09 14:31
Surrogate: 1,2-Dichloroethane-d4	50.0	48.2			96%	41 - 150	9041622	04/10/09 14:31
Surrogate: Dibromofluoromethane	50.0	51.3			103%	55 - 139	9041622	04/10/09 14:31
Surrogate: Toluene-d8	50.0	48.3			97%	57 - 148	9041622	04/10/09 14:31
Surrogate: 4-Bromofluorobenzene	50.0	42.3			85%	58 - 150	9041622	04/10/09 14:31
9041646-BS1								
Benzene	50.0	55.6		ug/kg	111%	76 - 130	9041646	04/09/09 17:36
Ethylbenzene	50.0	55.3		ug/kg	111%	80 - 128	9041646	04/09/09 17:36
Naphthalene	50.0	50.5		ug/kg	101%	63 - 144	9041646	04/09/09 17:36
Toluene	50.0	55.8		ug/kg	112%	80 - 125	9041646	04/09/09 17:36
Xylenes, total	150	166		ug/kg	111%	79 - 130	9041646	04/09/09 17:36
Surrogate: 1,2-Dichloroethane-d4	50.0	48.4			97%	41 - 150	9041646	04/09/09 17:36
Surrogate: Dibromofluoromethane	50.0	51.4			103%	55 - 139	9041646	04/09/09 17:36
Surrogate: Toluene-d8	50.0	47.6			95%	57 - 148	9041646	04/09/09 17:36
Surrogate: 4-Bromofluorobenzene	50.0	49.2			98%	58 - 150	9041646	04/09/09 17:36
Polyaromatic Hydrocarbons by EP	A 8270D							
9040621-BS1								
Acenaphthene	1.67	1.26		mg/kg wet	75%	52 - 106	9040621	04/05/09 14:10
Acenaphthylene	1.67	1.14		mg/kg wet	68%	53 - 109	9040621	04/05/09 14:10
Anthracene	1.67	1.46		mg/kg wet	87%	54 - 124	9040621	04/05/09 14:10
Benzo (a) anthracene	1.67	1.31		mg/kg wet	78%	53 - 111	9040621	04/05/09 14:10
Benzo (a) pyrene	1.67	1.33		mg/kg wet	80%	52 - 122	9040621	04/05/09 14:10
Benzo (b) fluoranthene	1.67	1.42		mg/kg wet	85%	48 - 115	9040621	04/05/09 14:10
Benzo (g,h,i) perylene	1.67	1.21		mg/kg wet	72%	46 - 114	9040621	04/05/09 14:10
Benzo (k) fluoranthene	1.67	1.15		mg/kg wet	69%	41 - 121	9040621	04/05/09 14:10

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica

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

Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSD0366
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/03/09 08:00

PROJECT QUALITY CONTROL DATA

LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Polyaromatic Hydrocarbons by I	EPA 8270D							
9040621-BS1								
Chrysene	1.67	1.34		mg/kg wet	80%	49 - 113	9040621	04/05/09 14:10
Dibenz (a,h) anthracene	1.67	1.25		mg/kg wet	75%	47 - 117	9040621	04/05/09 14:10
Fluoranthene	1.67	1.45		mg/kg wet	87%	52 - 113	9040621	04/05/09 14:10
Fluorene	1.67	1.23		mg/kg wet	74%	54 - 107	9040621	04/05/09 14:10
Indeno (1,2,3-cd) pyrene	1.67	1.23		mg/kg wet	74%	47 - 115	9040621	04/05/09 14:10
Naphthalene	1.67	0.973		mg/kg wet	58%	34 - 107	9040621	04/05/09 14:10
Phenanthrene	1.67	1.34		mg/kg wet	80%	53 - 108	9040621	04/05/09 14:10
Ругепе	1.67	1.40		mg/kg wet	84%	54 - 113	9040621	04/05/09 14:10
Surrogate: Terphenyl-d14	1.67	1.44			86%	26 - 128	9040621	04/05/09 14:10
Surrogate: 2-Fluorobiphenyl	1.67	1.28			77%	19 - 109	9040621	04/05/09 14:10
Surrogate: Nitrobenzene-d5	1.67	0.843			51%	22 - 104	9040621	04/05/09 14:10

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)

10179 Highway 78

Ladson, SC 29456

Attn Tom McElwee

Work Order:	NSD0366
Project Name:	Laurel Bay Housing Project
Project Number:	[none]
Received:	04/03/09 08:00

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 Comp	ounds by EPA l	Method 820	50B									
9040586-BSD1	·											
Benzene		45.9		ug/kg	50.0	92%	76 - 130	2	43	9040586		04/08/09 13:37
Ethylbenzene		46.3		ug/kg	50.0	93%	80 - 128	2	48	9040586		04/08/09 13:37
Naphthalene		43.9		ug/kg	50.0	88%	63 - 144	0.3	50	9040586		04/08/09 13:37
Toluene		47.1		ug/kg	50.0	94%	80 - 125	0.9	44	9040586		04/08/09 13:37
Xylenes, total		139		ug/kg	150	93%	79 - 130	3	48	9040586		04/08/09 13:37
Surrogate: 1,2-Dichloroethane-d4		48.7		ug/kg	50.0	97%	41 - 150			9040586		04/08/09 13:37
Surrogate: Dibromofluoromethane		50.4		ug/kg	50.0	101%	55 - 139			9040586		04/08/09 13:37
Surrogate: Toluene-d8		48.9		ug/kg	50.0	98%	57 - 148			9040586		04/08/09 13:37
Surrogate: 4-Bromofluorobenzene		48.7		ug/kg	50.0	97%	58 - 150			9040586		04/08/09 13:37
9041622-BSD1												
Benzene		43.1		ug/kg	50.0	86%	76 - 130	3	43	9041622		04/10/09 15:01
Ethylbenzene		40.9		ug/kg	50.0	82%	80 - 128	0.5	48	9041622		04/10/09 15:01
Naphthalene		41.9		ug/kg	50.0	84%	63 - 144	16	50	9041622		04/10/09 15:01
Toluene		41.9		ug/kg	50.0	84%	80 - 125	3	44	9041622		04/10/09 15:01
Xylenes, total		123		ug/kg	150	82%	79 - 130	0.6	48	9041622		04/10/09 15:01
Surrogate: 1,2-Dichloroethane-d4		47.4		ug/kg	50.0	95%	41 - 150			9041622		04/10/09 15:01
Surrogate: Dibromofluoromethane		51.4		ug/kg	50.0	103%	55 - 139			9041622		04/10/09 15:01
Surrogate: Toluene-d8		47.6		ug/kg	50.0	95%	57 - 148			9041622		04/10/09 15:01
Surrogate: 4-Bromofluorobenzene		47.9		ug/kg	50.0	96%	58 - 150			9041622		04/10/09 15:01
9041646-BSD1												
Benzene		49.9		ug/kg	50.0	100%	76 - 130	11	43	9041646		04/09/09 18:06
Ethylbenzene		49.0		ug/kg	50.0	98%	80 - 128	12	48	9041646		04/09/09 18:06
Naphthalene		47.7		ug/kg	50.0	95%	63 - 144	6	50	9041646		04/09/09 18:06
Toluene		50.0		ug/kg	50.0	100%	80 - 125	11	44	9041646		04/09/09 18:06
Xylenes, total		149		ug/kg	150	99%	79 - 130	11	48	9041646		04/09/09 18:06
Surrogate: 1,2-Dichloroethane-d4		49.1		ug/kg	50.0	98%	41 - 150			9041646		04/09/09 18:06
Surrogate: Dibromofluoromethane		52.1		ug/kg	50.0	104%	55 - 139			9041646		04/09/09 18:06
Surrogate: Toluene-d8		47.7		ug/kg	50.0	95%	57 - 148			9041646		04/09/09 18:06
Surrogate: 4-Bromofluorobenzene		47.4		ug/kg	50.0	95%	58 - 150			9041646		04/09/09 18:06

THE LEADER IN ENVIRONMENTAL TESTING

Client EEG - Env. Enterprise Group (2449)

10179 Highway 78

Ladson, SC 29456

Attn Tom McElwee

Work Order:	NSD0366
Project Name:	Laurel Bay Housing Project
Project Number:	[none]
Received:	04/03/09 08:00

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								
9040586-MS1				_						
Benzene	ND	1.77		mg/kg wet	2.39	74%	33 - 146	9040586	NSD0306-07RE 1	04/08/09 22:31
Ethylbenzene	ND	1.75		mg/kg wet	2.39	73%	16 - 160	9040586	NSD0306-07RE	04/08/09 22:31
Naphthalene	0.207	2.11		mg/kg wet	2.39	80%	10 - 151	9040586	NSD0306-07RE	04/08/09 22:31
Toluene	ND	1.74		mg/kg wet	2.39	73%	30 - 145	9040586	NSD0306-07RE	04/08/09 22:31
Xylenes, total	ND	5.46		mg/kg wet	7.17	76%	16 - 159	9040586	I NSD0306-07RE	04/08/09 22:31
Surrogate: 1,2-Dichloroethane-d4		48.0		ug/kg	50.0	96%	41 - 150	9040586	1 NSD0306-07RE	04/08/09 22:31
Surrogate: Dibromofluoromethane		48.4		ug/kg	50.0	97%	55 - 139	9040586	I NSD0306-07RE	04/08/09 22:31
Surrogate: Toluene-d8		48.5		ug/kg	50.0	97%	57 - 148	9040586	I NSD0306-07RE	04/08/09 22:31
Surrogate: 4-Bromofluorobenzene		47.9		ug/kg	50.0	96%	58 - 150	9040586	1 NSD0306-07RE 1	04/08/09 22:31
9041622-MS1										
Benzene	ND	1.47		mg/kg wet	2.35	63%	33 - 146	9041622	NSD0306-11RE 2	04/10/09 22:55
Ethylbenzene	0.970	2.03		mg/kg wet	2.35	45%	16 - 160	9041622	- NSD0306-11RE 2	04/10/09 22:55
Naphthalene	1.54	1.79		mg/kg wet	2.35	11%	10 - 151	9041622	- NSD0306-11RE 2	04/10/09 22:55
Toluene	ND	1.36		mg/kg wet	2.35	58%	30 - 145	9041622	- NSD0306-11RE 2	04/10/09 22:55
Xylenes, total	6.38	8.56		mg/kg wet	7.04	31%	16 - 159	9041622	2 NSD0306-11RE 2	04/10/09 22:55
Surrogate: 1,2-Dichloroethane-d4		45.3		ug/kg	50.0	91%	41 - 150	9041622	2 NSD0306-11RE 2	04/10/09 22:55
Surrogate: Dibromofluoromethane		48.8		ug/kg	50.0	98%	55 - 139	9041622	- NSD0306-11RE 2	04/10/09 22:55
Surrogate: Toluene-d8		47.4		ug/kg	50.0	95%	57 - 148	9041622	2 NSD0306-11RE 2	04/10/09 22:55
Surrogate: 4-Bromofluorobenzene		43.0		ug/kg	50.0	86%	58 - 150	9041622	NSD0306-11RE 2	04/10/09 22:55
9041646-MS1										
Benzene	0.517	2.48		mg/kg wet	2.31	85%	33 - 146	9041646	NSD0306-09RE 2	04/10/09 02:17
Ethylbenzene	1.46	3.32		mg/kg wet	2.31	80%	16 - 160	9041646	- NSD0306-09RE 2	04/10/09 02:17
Naphthalene	1.01	2.85		mg/kg wet	2.31	80%	10 - 151	9041646	- NSD0306-09RE 2	04/10/09 02:17
Toluene	2.91	4.71		mg/kg wet	2.31	78%	30 - 145	9041646	- NSD0306-09RE 2	04/10/09 02:17

THE LEADER IN ENVIRONMENTAL TESTING

Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSD0366
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/03/09 08:00

PROJECT QUALITY CONTROL DATA Matrix Spike - Cont.										
Analyte	Orig. Val.	MS Val	Q Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time	
Selected Volatile Organic Compo	unds by EPA Me	thod 8260B								
9041646-MS1	-									
Xylenes, total	7.04	12.6	mg/kg wet	6.94	81%	16 - 159	9041646	NSD0306-09RE	04/10/09 02:17	
Surrogate: 1,2-Dichloroethane-d4		49.2	ug/kg	50.0	98%	41 - 150	9041646	2 NSD0306-09RE 2	04/10/09 02:17	
Surrogate: Dibromofluoromethane		50.6	ug/kg	50.0	101%	55 - 139	9041646	NSD0306-09RE 2	04/10/09 02:17	
Surrogate: Toluene-d8		47.5	ug/kg	50.0	95%	57 - 148	9041646	NSD0306-09RE 2	04/10/09 02:17	
Surrogate: 4-Bromofluorobenzene		48.1	ug/kg	50.0	96%	58 - 150	9041646	NSD0306-09RE 2	04/10/09 02:17	
Polyaromatic Hydrocarbons by E	PA 8270D									
9040621-MS1										
Acenaphthene	ND	1.10	mg/kg wet	1.62	68%	28 - 117	9040621	NSD0405-07	04/05/09 14:33	
Acenaphthylene	ND	1.01	mg/kg wet	1.62	62%	33 - 113	9040621	NSD0405-07	04/05/09 14:33	
Anthracene	ND	1.24	mg/kg wet	1.62	77%	31 - 131	9040621	NSD0405-07	04/05/09 14:33	
Benzo (a) anthracene	ND	1.10	mg/kg wet	1.62	68%	29 - 124	9040621	NSD0405-07	04/05/09 14:33	
Benzo (a) pyrene	ND	1.14	mg/kg wet	1.62	70%	30 - 127	9040621	NSD0405-07	04/05/09 14:33	
Benzo (b) fluoranthene	ND	1.14	mg/kg wet	1.62	70%	26 - 128	9040621	NSD0405-07	04/05/09 14:33	
Benzo (g,h,i) perylene	ND	1.00	mg/kg wet	1.62	62%	21 - 122	9040621	NSD0405-07	04/05/09 14:33	
Benzo (k) fluoranthene	ND	1.01	mg/kg wet	1.62	62%	20 - 130	9040621	NSD0405-07	04/05/09 14:33	
Chrysene	ND	1.13	mg/kg wet	1.62	70%	30 - 119	9040621	NSD0405-07	04/05/09 14:33	
Dibenz (a,h) anthracene	ND	1.03	mg/kg wet	1.62	64%	27 - 122	9040621	NSD0405-07	04/05/09 14:33	
Fluoranthene	ND	1.23	mg/kg wet	1.62	76%	23 - 132	9040621	NSD0405-07	04/05/09 14:33	
Fluorene	ND	1.07	mg/kg wet	1.62	66%	38 - 110	9040621	NSD0405-07	04/05/09 14:33	
Indeno (1,2,3-cd) pyrene	ND	1.02	mg/kg wet	1.62	63%	24 - 122	9040621	NSD0405-07	04/05/09 14:33	
Naphthalene	ND	0.855	mg/kg wet	1.62	53%	14 - 117	9040621	NSD0405-07	04/05/09 14:33	
Phenanthrene	ND	1.16	mg/kg wet	1.62	72%	21 - 130	9040621	NSD0405-07	04/05/09 14:33	
Pyrene	ND	1.23	mg/kg wet	1.62	76%	24 - 133	9040621	NSD0405-07	04/05/09 14:33	
Surrogate: Terphenyl-d14		1.21	mg/kg wet	1.62	75%	26 - 128	9040621	NSD0405-07	04/05/09 14:33	
Surrogate: 2-Fluorobiphenyl		1.07	mg/kg wet	1.62	66%	19 - 109	9040621	NSD0405-07	04/05/09 14:33	
Surrogate: Nitrobenzene-d5		0.737	mg/kg wet	1.62	45%	22 - 104	9040621	NSD0405-07	04/05/09 14:33	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

EEG - Env. Enterprise Group (2449) Client

10179 Highway 78

Ladson, SC 29456

Attn Tom McElwee Work Order: NSD0366 Laurel Bay Housing Project Project Name: [none] Project Number: 04/03/09 08:00 Received:

PROJECT QUALITY CONTROL DATA Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Selected Volatile Organic Compo	unds by EPA	Method 8260	0 B									
9040586-MSD1												
Benzene	ND	1.51		mg/kg wet	2.39	63%	33 - 146	16	43	9040586	NSD0306-07R	04/08/09 23:02
Ethylbenzene	ND	1.55		mg/kg wet	2.39	65%	16 - 160	12	48	9040586	NSD0306-07R E1	04/08/09 23:02
Naphthalene	0.207	1.76		mg/kg wet	2.39	65%	10 - 151	18	50	9040586	NSD0306-07R	04/08/09 23:02
Toluene	ND	1.50		mg/kg wet	2.39	63%	30 - 145	15	44	9040586	E1 NSD0306-07R E1	04/08/09 23:02
Xylenes, total	ND	4.85		mg/kg wet	7.17	68%	16 - 159	12	48	9040586	NSD0306-07R	04/08/09 23:02
Surrogate: 1,2-Dichloroethane-d4		47.9		ug/kg	50.0	96%	41 - 150			9040586	NSD0306-07R	04/08/09 23:02
Surrogate: Dibromofluoromethane		49.6		ug/kg	50.0	99%	55 - 139			9040586	NSD0306-07R	04/08/09 23:02
Surrogate: Toluene-d8		48.2		ug/kg	50.0	96%	57 - 148			9040586	E1 NSD0306-07R	04/08/09 23:02
Surrogate: 4-Bromofluorobenzene		49.7		ug/kg	50.0	99%	58 - 150			9040586	E1 NSD0306-07R E1	04/08/09 23:02
9041622-MSD1												
Benzene	ND	1.52		mg/kg wet	2.35	65%	33 - 146	3	43	9041622	NSD0306-11R F2	04/10/09 23:25
Ethylbenzene	0.970	2.24		mg/kg wet	2.35	54%	16 - 160	10	48	9041622	NSD0306-11R F2	04/10/09 23:25
Naphthalene	1.54	2.05		mg/kg wet	2.35	22%	10 - 151	13	50	9041622	NSD0306-11R E2	04/10/09 23:25
Toluene	ND	1.43		mg/kg wet	2.35	61%	30 - 145	5	44	9041622	NSD0306-11R	04/10/09 23:25
Xylenes, total	6.38	9.40		mg/kg wet	7.04	43%	16 - 159	9	48	9041622	NSD0306-11R	04/10/09 23:25
Surrogate: 1,2-Dichloroethane-d4		46.3		ug/kg	50.0	93%	41 - 150			9041622	NSD0306-11R	04/10/09 23:25
Surrogate: Dibromofluoromethane		48.3		ug/kg	50.0	97%	55 - 139			9041622	E2 NSD0306-11R	04/10/09 23:25
Surrogate: Toluene-d8		48.1		ug/kg	50.0	96%	57 - 148			9041622	E2 NSD0306-11R	04/10/09 23:25
Surrogate: 4-Bromofluorobenzene		42.8		ug/kg	50.0	86%	58 - 150			9041622	E2 NSD0306-11R E2	04/10/09 23:25
9041646-MSD1												
Benzene	0.517	2.00		mg/kg wet	2.31	64%	33 - 146	22	43	9041646	NSD0306-09R E2	04/10/09 02:47
Ethylbenzene	1.46	2.72		mg/kg wet	2.31	55%	16 - 160	20	48	9041646	NSD0306-09R F2	04/10/09 02:47
Naphthalene	1.01	2.04		mg/kg wet	2.31	45%	10 - 151	33	50	9041646	NSD0306-09R F2	04/10/09 02:47
Toluene	2.91	4.02		mg/kg wet	2.31	48%	30 - 145	16	44	9041646	NSD0306-09R E2	04/10/09 02:47
Xylenes, total	7.04	10.5		mg/kg wet	6.94	50%	16 - 159	18	48	9041646	NSD0306-09R E2	04/10/09 02:47

TestAmerica

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) 10179 Highway 78	Work Order: Project Name:	NSD0366 Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwec	Received:	04/03/09 08:00

Matrix Spike Dup - Cont.

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 826	60B									
9041646-MSD1												
Surrogate: 1,2-Dichloroethane-d4		47.6		ug/kg	50.0	95%	41 - 150			9041646	NSD0306-09R E2	04/10/09 02:47
Surrogate: Dibromofluoromethane		49.2		ug/kg	50.0	98%	55 - 139			9041646	NSD0306-09R E2	04/10/09 02:47
Surrogate: Toluene-d8		47.1		ug/kg	50.0	94%	57 - 148			9041646	NSD0306-09R E2	04/10/09 02:47
Surrogate: 4-Bromofluorobenzene		42.0		ug/kg	50.0	84%	58 - 150			9041646	NSD0306-09R E2	04/10/09 02:47
Polyaromatic Hydrocarbons by 1	EPA 8270D											
9040621-MSD1												
Acenaphthene	ND	1.18		mg/kg wet	1.64	72%	28 - 117	7	33	9040621	NSD0405-07	04/05/09 14:56
Acenaphthylene	ND	1.05		mg/kg wet	1.64	64%	33 - 113	4	38	9040621	NSD0405-07	04/05/09 14:56
Anthracene	ND	1.29		mg/kg wet	1.64	79%	31 - 131	4	32	9040621	NSD0405-07	04/05/09 14:56
Benzo (a) anthracene	ND	1.16		mg/kg wet	1.64	71%	29 - 124	5	26	9040621	NSD0405-07	04/05/09 14:56
Benzo (a) pyrene	ND	1.20		mg/kg wet	1.64	73%	30 - 127	5	31	9040621	NSD0405-07	04/05/09 14:56
Benzo (b) fluoranthene	ND	1.14		mg/kg wet	1.64	69%	26 - 128	0.08	37	9040621	NSD0405-07	04/05/09 14:56
Benzo (g,h,i) perylene	ND	1.12		mg/kg wet	1.64	68%	21 - 122	11	28	9040621	NSD0405-07	04/05/09 14:56
Benzo (k) fluoranthene	ND	1.20		mg/kg wet	1.64	73%	20 - 130	18	35	9040621	NSD0405-07	04/05/09 14:56
Chrysene	ND	1.21		mg/kg wet	1.64	74%	30 - 119	7	31	9040621	NSD0405-07	04/05/09 14:56
Dibenz (a,h) anthracene	ND	1.10		mg/kg wet	1.64	67%	27 - 122	6	32	9040621	NSD0405-07	04/05/09 14:56
Fluoranthene	ND	1.30		mg/kg wet	1.64	79%	23 - 132	6	36	9040621	NSD0405-07	04/05/09 14:56
Fluorene	ND	1.15		mg/kg wet	1.64	70%	38 - 110	8	35	9040621	NSD0405-07	04/05/09 14:56
Indeno (1,2,3-cd) pyrene	ND	1.11		mg/kg wet	1.64	67%	24 - 122	8	28	9040621	NSD0405-07	04/05/09 14:56
Naphthalene	ND	0.864		mg/kg wet	1.64	53%	14 - 117	1	34	9040621	NSD0405-07	04/05/09 14:56
Phenanthrene	ND	1.22		mg/kg wet	1.64	74%	21 - 130	5	33	9040621	NSD0405-07	04/05/09 14:56
Рутепе	ND	1.27		mg/kg wet	1.64	77%	24 - 133	3	36	9040621	NSD0405-07	04/05/09 14:56
Surrogate: Terphenyl-d14		1.22		mg/kg wet	1.64	74%	26 - 128			9040621	NSD0405-07	04/05/09 14:56
Surrogate: 2-Fluorobiphenyl		1.09		mg/kg wet	1.64	66%	19 - 109			9040621	NSD0405-07	04/05/09 14:56
Surrogate: Nitrobenzene-d5		0.740		mg/kg wet	1.64	45%	22 - 104			9040621	NSD0405-07	04/05/09 14:56

Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSD0366
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/03/09 08:00

TestAmerica Nashville

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 - Env. Enterprise Group (2449)	Work Order:	NSD0366
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/03/09 08:00

DATA QUALIFIERS AND DEFINITIONS

STW No tare weight present on sample vial. Result should be considered an estimated value.

ND Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

NSD0366

04/17/09 23:59

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		Nashville 2960 Fost Nashville	Divisio ter Crei , TN 37	on ighto '204	'n			Τα	Pho oli Fr Fi	ne: 6 ce: 8 ax: 6	;15-7 300-7 515-7	726-0 [,] 765-0; 726-34	177 980 404							To a: meth regul	ssist us ods, is atory p	s in usir this wo ourpose	ng the p ork beir is? Compli	proper a lg condi	inalytica ucted fo	al)r	Var		No
	40470 Lisburg	70														-							Enfor		t Action	y: o	Ver	` <u> </u>	- 110
	Lodeon SC 20	<u>78</u>		-														Site	State.	sc			Enio	cemen	ACION	, ,	res	, <u> </u>	- 10
City/State/Zip:	Tom McEhung														-			0100		<u> </u>	्	5 2 9	1						
Tolonhone Number	843 412 2007	anan, meen	1001200	Sanc.1					84	13-	- 8	79	-6)4	DI				iote #:				4						
Sampler Name: (Print)	Parat	1 31	A 1						<u>v</u>									Proi	ect ID:	1.800	l Bay I	Housin	a Proie						
Sampler Signature	- MA	1	<u>AW</u>													-		Pro	lect #:		, ouy		9110,0	<u>~</u>	<u></u>				
Campion organization								5 F	rese	vativ		1		A	Aatri								nalvze	For					1
Sample ID / Description 269 Birch 263 Beech -1 263 Brech -2	ранонея 3/30/09 3/31/09 3/3./09	1335 1115 1115 1115	C C No. of Containers Shipped	X X Grab	Composite	Field Filtered			NaOH (Orange Laber)	H ₂ SO ₄ Plastic (Yeffow Label)	13 1 CV NOR HISE 1 CON		Groundwater	Wasteweiter		Sent	Other (specify):	[W] [W] [W] [W] [W] 2560	х х х ран - 8270C										RUSH TAT (Pre-Schedule)
Special Instructions:					L		Mett	10d 0	f Shij	pmen	<u></u>		.	.		Fi	EDE)	κ	<u> </u>	Labo	Tem VOC	Comm peratur is Free	e Upon of Hea	Receip dspace)t: ?	5	2.4	00	Γ4 ~ γ
Relinquished by:	Dat 1/2/0	ie 74	TH j1C	me XI	Rece	ived b	ν. 15	×							Date			Tim	e										
Relinquished by:	Dat	le	Tir	me	Rece	eived t								41	Date 3			Time 8 - U	ΰŨ										

ATTACHMENT A

UST Certificate of Disposal

CONTRACTOR

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

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

TANK ID & LOCATION

UST 263Beech-1, 263 Beech St., Laurel Bay Housing Area, MCAS Beaufort, S.C.

DISPOSAL LOCATION

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

<u>TYPE OF TANK</u> <u>SIZE (GAL)</u>

Steel

280

CLEANING/DISPOSAL METHOD

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

DISPOSAL CERTIFICATION

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

(Name) (I (Date)



NON-HAZARDOUS MANIFEST

Pie	ase p	rint or type. (Form designed for use on elite (12-pitch)	typewriter.)		_						_									CN	
		NON-HAZARDOUS MANIFEST	1. Genera	ator's US.	EPA	ID No). 	1		ı	P	Mar	ifest ent N	۰. ۱۰	2. Pa	ge 1						
	3.	Generator's Name and Mailing Address ICAS, Beaufort aurel Bay Housing			1	<u> </u>	ļ.	<u> </u>	<u> </u>		<u> </u>				A. Ma	1 /MN te Gener	mber	1	08	85	48(0
	4,	Generator's Phone 843 228-6460										,										
	5.	Transporter 1 Company Name			6.			US	EPA II) Nur	mber	,		1	C. Sta	te Transp	oorter's ID)		A 44 4		
	7.	Transporter 2 Company Name			8.	<u> </u>		US	EPA II	Nur	nber	1		ŀ	E. Sta	nsporter te Transp	s Phone	843	8/8	0411		<u> </u>
					Ì		1								F. Tra	nsporter's	s Phone	· · · ·				
	9.	Designated Facility Name and Site Address			10.			US	EPA IC) Nur	nber				G. Sta	te Facility	/'s ID		<u> </u>			
		OUTE 1, BOX 121 NDGELAND SC 29936 Description of Waste Materials			ļ						ļļ	+	12	Cont	ainers	1	13.	843	987-	4643	; 	
		ination (1) Tank filed with Good									······	╇	N	o,	Туре		Total Quantity	v	Unit Vt./Vol.	Misc.	Comm	ients
Ģ		WM Pro	ofile #	1	02	855	580	;				0	0,0	1			₹. 					
ENER.	b.	and a second						<u></u>				Ť					<u>.</u>					
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		WM Pro	file #								4	ŀ	Ļ	1.						<u></u>		
	J.	Additional Descriptions for Materials Listed Abov	' 0												к. D	isposal	Location	1				
		Landfill Solidification	ı			<u> </u>									Cell				Leve	l		
		Bio Remediation													Grid			شريخ				
	15.	Special Handling Instructions and Additional Ir GUSTSZG3B Purchase Order # 386	iformation RRC RCh	h - 5	2	E	EME	RGE	4) 5)	3 	ାମ 5 3 ମ ଦ ITACT	יי י ר :	а. А 6	-0 - 0 	RADRA		Ce 2 Roh)3	97	Ac	DAN-	-1
	16.	GENERATOR'S CERTIFICATION:		<u>~</u>										.							· · · · ·	
		I hereby certify that the above-de applicable state law, have been for transportation according to ap	escribed fully an oplicabl	d mat d acc le reg	eria urat ulat	ils a tely tion	are ' de s.	not scr	t haż ibed	arc , cl	dous lassil	wa ied	ste ar	nd p	s def acka	ined I ged,	by 40 and a	CFR re in	Par prop	t 261 er co	or any Indition	y n
	Ĩ	Printed/Typed Name Charles H. Herro	2				Sic		re "Or	i beł	half of)	4		He	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ييو			Month	Day	Year 6 C
T R A N S	17.	Transporter 1 Acknowledgement of Receipt of Printed/Typed Name					Sic			h		16	$\frac{1}{2}$	0_	0.	:				Month	Day	Year
P C R T E R	18.	Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	Materials				Siç	natu	IFØ	<u>, ac</u>			<u>,</u>							Month	Day	Year
FAC	19.	Certificate of Final Treatment/Disposal I certify, on behalf of the above li was managed in compliance with	sted tre	eatme plicab	nt f	acil	lity, s, re	tha əgu	at to latio	the ns,	e bes perr	t of nits	f m s ai	y ki nd l	nowle	edge, ses or	the at the c	bove dates	-des liste	cribe ed ab	d wast ove.	te
L I T	20.	Facitility Owner or Operator: Certification of rec	eipt of non	n-hazard	lous	mate	rialé	cov	ered b	y thi	s mani	fest.					· ·					
Y		Jan Collins					Sig	matu		$\underline{\mathbb{I}}$	L	Û	E							Month 015	Day	Year ICF1
٧k	4 - NH	IM - 1 - 5/97																				

Appendix C Laboratory Analytical Report - Groundwater



Client: AECOM - Res	solution Consultants						Laboratory ID:	OG18009-	003		
Description: BEALB263TV	/01WG20130717						Matrix:	Aqueous			
Date Sampled: 07/17/2013 17	115										
Date Received: 07/18/2013											
Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1	Analysis [07/26/2013	Date Analyst 3 1433 JAC	Prep D	ate	Batch 25956				
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	2.0		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	Accepta ery Limi	ance ts							
1,2-Dichloroethane-d4		98	70-1	120							
Toluene-d8		107	85-1	120							
Bromofluorobenzene		96	75-1	120							
Dibromofluoromethane		97	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 are reported on a dry weight basis unless flagged with a "W"
 S = MS/MSD failure

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

Client: AECOM - Res	solution Consultants					La	boratory I	D: OG18009-0	03		
Description: BEALB263TW	/01WG20130717						Matr	ix: Aqueous			
Date Sampled: 07/17/2013 11	15										
Date Received: 07/18/2013											
Run Prep Method 2 3520C	Analytical Method 8270D	Dilution 1	Analysis D 07/24/2013	ate Analyst 1645 JRG	Prep D 07/23/20	ate)13 1012	Batch 25626				
Parameter			CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzo(a)anthracene			56-55-3	8270D	ND		0.21	0.10	0.085	ug/L	2
Benzo(b)fluoranthene		2	205-99-2	8270D	ND		0.21	0.10	0.090	ug/L	2
Benzo(k)fluoranthene		2	207-08-9	8270D	ND		0.21	0.10	0.095	ug/L	2
Chrysene		2	218-01-9	8270D	ND		0.21	0.10	0.056	ug/L	2
Dibenzo(a,h)anthracene			53-70-3	8270D	ND		0.21	0.10	0.060	ug/L	2
Surrogate	Q	Run 2 % Recove	Accepta ery Limits	nce s							
2-Fluorobiphenyl		72	50-1	10							
Nitrobenzene-d5		74	40-1	10							
Terphenyl-d14		54	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

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

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

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 – 263 Beech St. **Site ID # 04228** 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.

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 Furt	her Action recommendation (25 addresses/27 tanks):
115 Banyan	386 Acorn
116 Banyan	395 Acorn
120 Banyan	399 Acorn
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 Cupress	1061 Gardenia
Tuo Cypress	1166 Jasmine
263 Beech	
263 Beech 269 Birch	1169 Jasmine