SUMMARY REPORT
150 EAST LAUREL BAY BOULEVARD (FORMERLY 778 EAST 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

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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



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List of Acronyms

bgs below ground surface

BTEX benzene, toluene, ethylbenzene, and xylenes

CTO Contract Task Order

COPC constituents of potential concern

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 150 East Laurel Bay Boulevard (Formerly 778 East 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, 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 150 East Laurel Bay Boulevard (Formerly 778 East Laurel Bay Boulevard). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 778 East Laurel Bay Boulevard* (MCAS Beaufort, 2013). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On February 15, 2013, a single 280 gallon heating oil UST was removed from the rear patio area at 150 East Laurel Bay Boulevard (Formerly 778 East Laurel Bay Boulevard). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 6'0" 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 150 East Laurel Bay Boulevard (Formerly 778 East Laurel Bay Blvd) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 150 East Laurel Bay Boulevard (Formerly 778 East Laurel Bay Boulevard). This NFA determination was obtained in a letter dated May 15, 2014. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2013. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 778 East Laurel Bay Blvd, Laurel Bay Military Housing Area, June 2013.



- 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.

Table



Table 1

Laboratory Analytical Results - Soil

150 East Laurel Bay Boulevard (Formerly 778 East Laurel Bay Boulevard)

Laurel Bay Military Housing Area Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	SCDHEC RBSLs (1)	Results Sample Collected 02/15/13		
Volatile Organic Compounds Analyzed	by EPA Method 8260B (mg/kg)			
Benzene	0.003	ND		
Ethylbenzene	1.15	ND		
Naphthalene	0.036	ND		
Toluene	0.627	ND		
Xylenes, Total	13.01	ND		
Semivolatile Organic Compounds Anal	yzed by EPA Method 8270D (mg/kg)			
Benzo(a)anthracene	0.66	0.182		
Benzo(b)fluoranthene	0.66	0.227		
Benzo(k)fluoranthene	0.66	0.0981		
Chrysene	0.66	0.186		
Dibenz(a,h)anthracene	0.66	0.0405		

Notes:

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 - milligram per kilogram

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

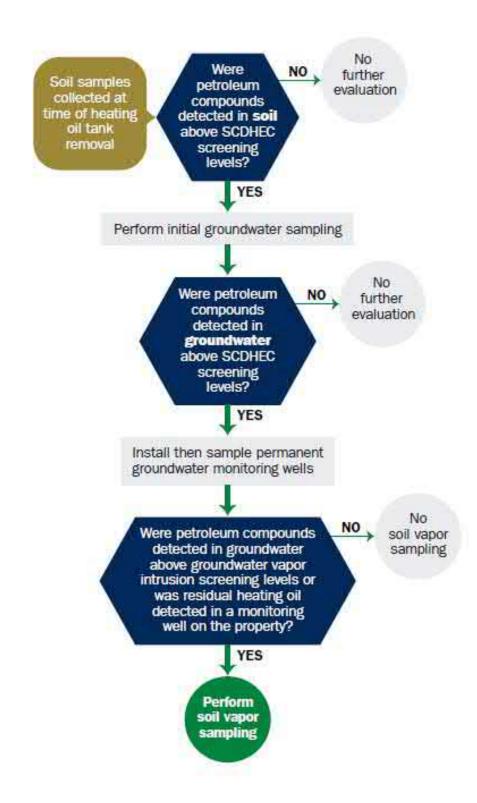
RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

⁽¹⁾ South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 2.0 (SCDHEC, April 2013).

Appendix A Multi-Media Selection Process for LBMH





Appendix A - Multi-Media Selection Process for LBMH

Appendix B UST Assessment Report



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



Submit Completed Form To: UST Program SCDHEC 2600 Bull Street Columbia, South Carolina 29201 Telephone (803) 896-7957

I. OWNERSHIP OF UST (S)

MCAS Beaufort, Commanding Owner Name (Corporation, Individua		AO (Craig Ehde)
P.O. Box 55001 Mailing Address		
Beaufort,	South Carolina	29904-5001
City	State	Zip Code
843	228-7317	Craig Ehde
Area Code	Telephone Number	Contact Person

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. #									
	ilitary Housing Area, Marine Corps Air Station, Beaufort, SC								
Facility Name or Co	Facility Name or Company Site Identifier								
	Bay Blvd., Laurel Bay Military Housing Area								
Street Address or St	tate Road (as applicable)								
Beaufort,	Beaufort								
City	County								

Attachment 2

III. INSURANCE INFORMATION

Insurance Statement
The petroleum release reported to DHEC on at Permit ID Number may qualify to receive state monies to pay for appropriate site rehabilitation activities. Before participation is allowed in the State Clean-up fund, written confirmation of the existence or non-existence of an environmental insurance policy is required. This section must be completed.
Is there now, or has there ever been an insurance policy or other financial mechanism that covers this UST release? YES NO (check one)
If you answered YES to the above question, please complete the following information:
My policy provider is: The policy deductible is: The policy limit is:
If you have this type of insurance, please include a copy of the policy with this report.
IV. REQUEST FOR SUPERB FUNDING
I DO / DO NOT wish to participate in the SUPERB Program. (Circle one.)
V. CERTIFICATION (To be signed by the UST owner)
I certify that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.
Name (Type or print.)
Signature
To be completed by Notary Public:
Sworn before me this day of, 20
(Name)
Notary Public for the state of Please affix State seal if you are commissioned outside South Carolina

Total Test Test Test Test Test Test Test Test
280 gal Late 1950s Steel Mid 1980s 6' No No Removed 2/15/2013
280 gal Late 1950s Steel Mid 1980s 6' No No Removed 2/15/2013
Late 1950s Steel Mid 1980s 6' No No Removed 2/15/2013
Steel Mid 1980s 6' No No Removed 2/15/2013
Mid 1980s 6' No No Removed 2/15/2013
6' No No Removed 2/15/2013
No No Removed 2/15/2013
No Removed 2/15/2013
Removed 2/15/2013
2/15/2013
Yes
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VII. PIPING INFORMATION

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heating.	These T	USTs we	ere
used in	the mid	d 1980s	3.
			
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IX. SITE CONDITIONS

		Yes	No	Unk
Α.	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.		х	
В.	Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells? If yes, indicate location on site map and describe the odor (strong, mild, etc.)		х	
C.	Was water present in the UST excavation, soil borings, or trenches? If yes, how far below land surface (indicate location and depth)?		Х	
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.		х	

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA#
778 Laurel BB	Excav at fill end	Soil	Sandy	6'	2/15/13 1145 hrs	P. Shaw	
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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.

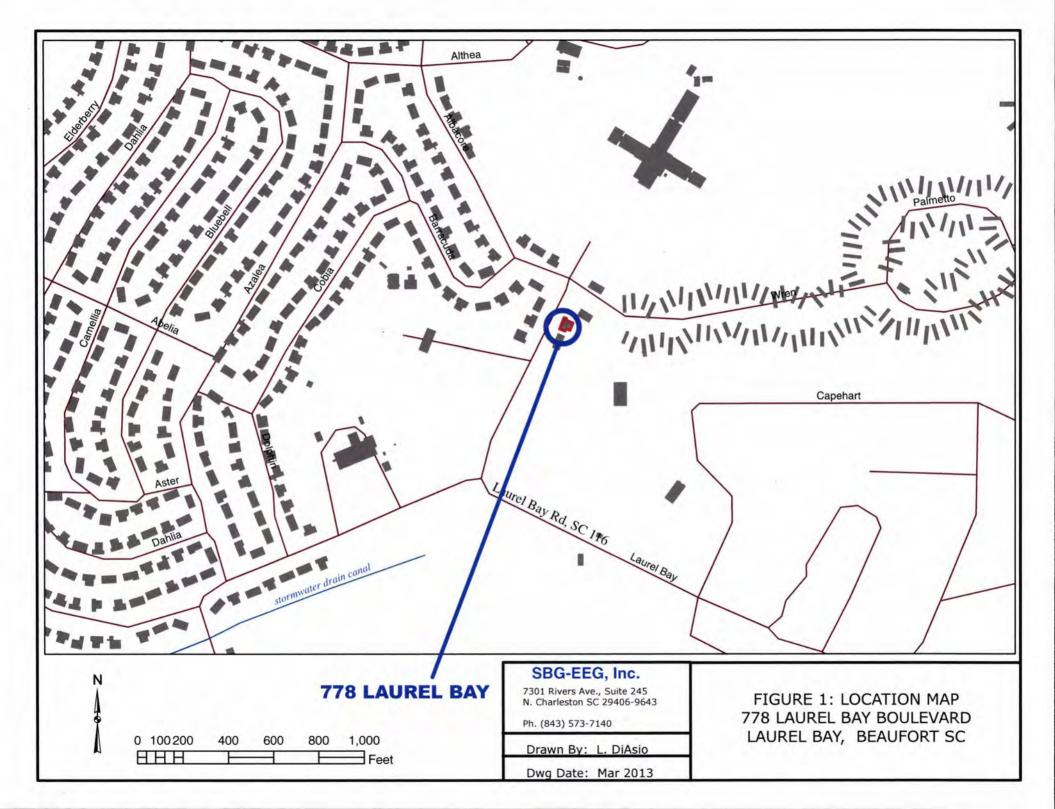
XII. RECEPTORS

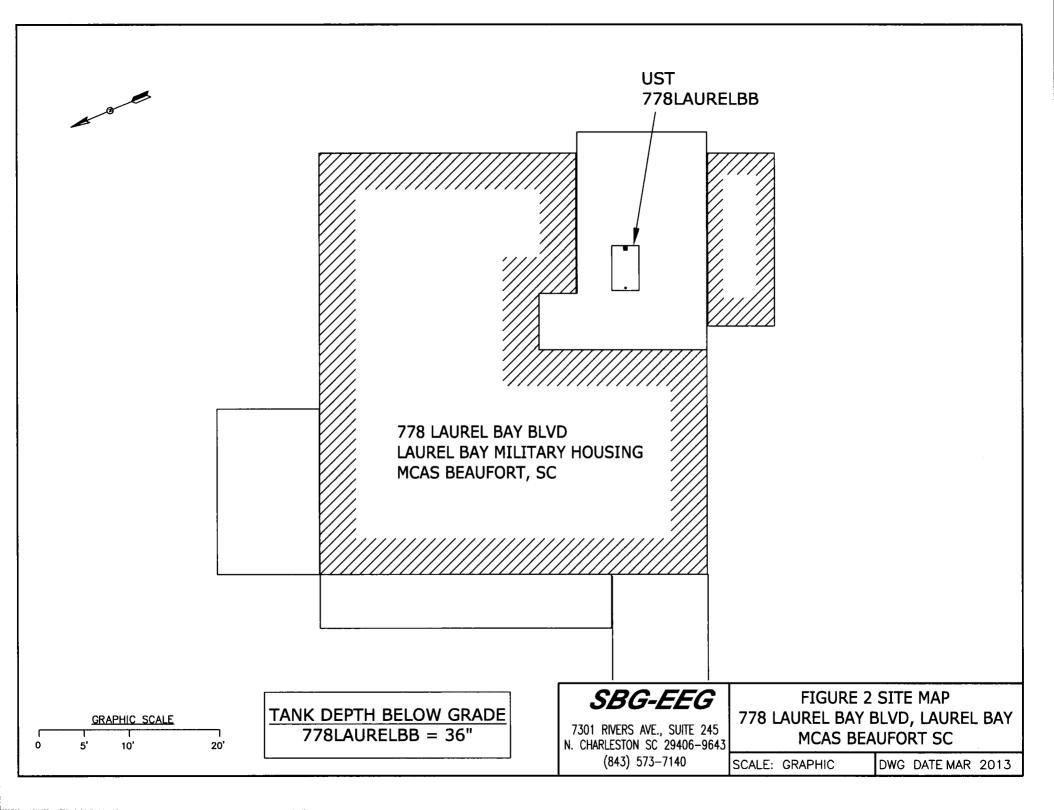
		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?		Х
	If yes, indicate type of receptor, distance, and direction on site map.		
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		Х
	If yes, indicate type of well, distance, and direction on site map.		
C.	Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?		Х
	If yes, indicate type of structure, distance, and direction on site map.		
D.	Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? *Sewer, water, electricable, fiber optic & cable, fiber optic & cable, storm of the contact with the contamination?	_	rmal
	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?		Х
	If yes, indicate the area of contaminated soil on the site map.		

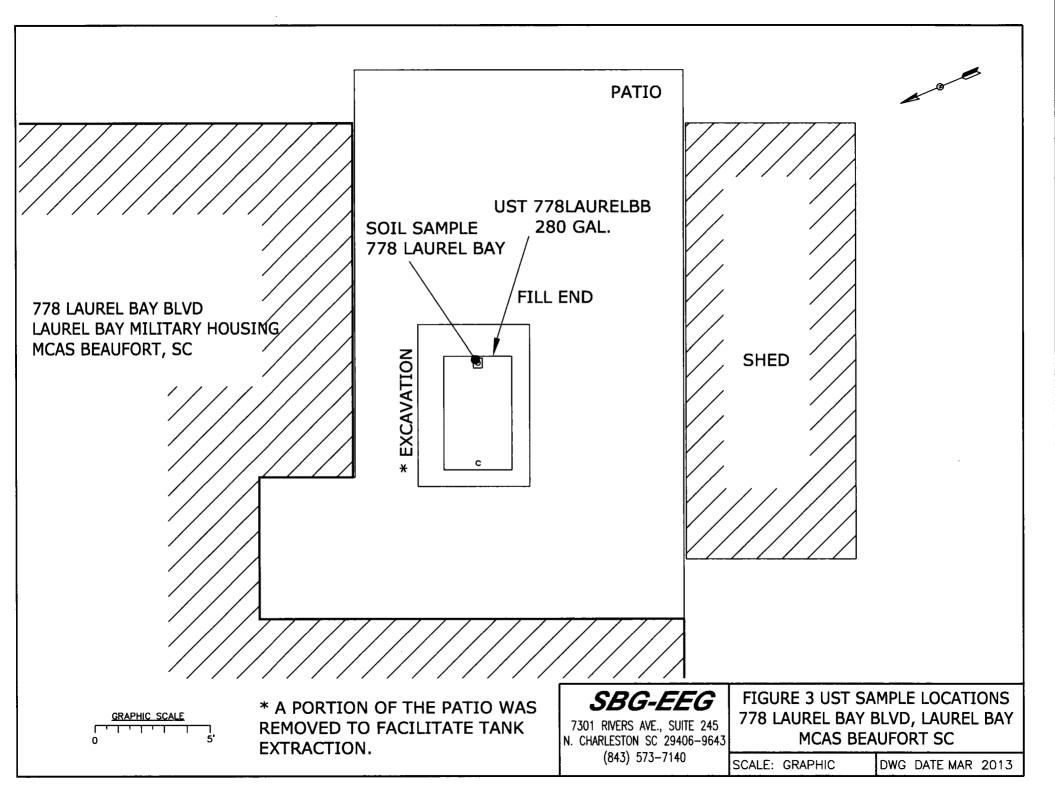
XIII. SITE MAP

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

(Attach Site Map Here)









Picture 1: Location of UST 778LaurelBB.



Picture 2: UST 778LaureIBB 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 UST	778LaurelBB				
Benzene	ND				
Toluene	ND				
Ethylbenzene	ND	in the			
Xylenes	ND				
Naphthalene	ND				
Benzo (a) anthracene	0.182 mg/kg				
Benzo (b) fluoranthene	0.227 mg/kg				
Benzo (k) fluoranthene	0.0981 mg/kg				
Chrysene	0.186 mg/kg				
Dibenz (a, h) anthracene	0.0405 mg/kg				
TPH (EPA 3550)					
CoC				_	
Benzene					
Toluene					
Ethylbenzene					
Xylenes					
Naphthalene					
Benzo (a) anthracene					
Benzo (b) fluoranthene					
Benzo (k) fluoranthene					
Chrysene					
Dibenz (a, h) anthracene					
TPH (EPA 3550)					

SUMMARY OF ANALYSIS RESULTS (cont'd)
Enter the ground water analytical data for each sample for all CoC in the table below. If free product is present, indicate the measured thickness to the nearest 0.01 feet.

is present, indicate the measured	i ·				[]	
CoC	RBSL	W-1	W-2	W -3	w -4	
	(µg/l)				_	
Free Product	None					
Thickness						
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)



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville 2960 Foster Creighton Drive Nashville, TN 37204 Tel: (615)726-0177

TestAmerica Job ID: 490-20028-1

TestAmerica Sample Delivery Group: SC Client Project/Site: Laural Bay Housing Project

For

Environmental Enterprise Group 10179 Highway 78 Ladson, South Carolina 29456

Attn: Mr. Tom McElwee

Madonna Myers

Authorized for release by: 2/28/2013 7:54:22 AM Madonna Myers Project Manager I madonna.myers@testamericainc.com

Designee for Ken Hayes Project Manager I

ken.hayes@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

4

6

7

8

10

1

13

Client: Environmental Enterprise Group Project/Site: Laural Bay Housing Project TestAmerica Job ID: 490-20028-1 SDG: SC

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Sample Summary

Client: Environmental Enterprise Group Project/Site: Laural Bay Housing Project TestAmerica Job ID: 490-20028-1

SDG: SC

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-20028-1	831 Azalea	Solid	02/18/13 13:45	02/20/13 08:20
490-20028-2	778 Laural Bay Blvd	Solid	02/15/13 11:45	02/20/13 08:20
490-20028-3	759 Althea	Solid	02/14/13 11:35	02/20/13 08:20
490-20028-4	1476 Cardinal	Solid	02/18/13 15:30	02/20/13 08:20

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Case Narrative

Client: Environmental Enterprise Group Project/Site: Laural Bay Housing Project TestAmerica Job ID: 490-20028-1

SDG: SC

Job ID: 490-20028-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-20028-1

Comments

No additional comments.

Receipt

The samples were received on 2/20/2013 8:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6° C.

GC/MS VOA

No analytical or quality issues were noted.

GC/MS Semi VOA

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

100

4

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Definitions/Glossary

Client: Environmental Enterprise Group Project/Site: Laural Bay Housing Project TestAmerica Job ID: 490-20028-1

SDG: SC

Qualifiers

GC/MS Semi VOA

Qualitier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.	
ø	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CNF	Contains no Free Liquid	
DER	Duplicate error ratio (normalized absolute difference)	
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision level concentration	
EDL	Estimated Detection Limit	
EPA	United States Environmental Protection Agency	
MDA	Minimum detectable activity	
MDC	Minimum detectable concentration	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
ND	Not detected at the reporting limit (or MDL or EDL if shown)	
PQL	Practical Quantitation Limit	
QC	Quality Control	
RER	Relative error ratio	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	

Client Sample Results

Client: Environmental Enterprise Group Project/Site: Laural Bay Housing Project TestAmerica Job ID: 490-20028-1

SDG: SC

Client Sample ID: 831 Azalea

Date Collected: 02/18/13 13:45 Date Received: 02/20/13 08:20

Percent Solids

Lab Sample ID: 490-20028-1

Matrix: Solid

Percent Solids: 95.7

ate Received: 02/20/13 08:20								Percent Son	40. 50
Method: 8260B - Volatile Orga Analyte	THE RESERVE OF THE PARTY OF THE	(GC/MS) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00287	0.000963	mg/Kg	ū	02/21/13 12:04	02/22/13 14:34	1
Ethylbenzene	ND		0.00287	0.000963	mg/Kg	ø	02/21/13 12:04	02/22/13 14:34	1
Naphthalene	ND		0.00718	0.00244	mg/Kg	Œ	02/21/13 12:04	02/22/13 14:34	1
Toluene	ND		0.00287	0.00106	mg/Kg	Ø	02/21/13 12:04	02/22/13 14:34	1
Xylenes, Total	ND		0.00718	0.000963	mg/Kg	D	02/21/13 12:04	02/22/13 14:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2-Dichloroethane-d4 (Surr)	104		70 - 130				02/21/13 12:04	02/22/13 14:34	1
4-Bromofluorobenzene (Surr)	99		70 - 130				02/21/13 12:04	02/22/13 14:34	1
Dibromofluoromethane (Surr)	100		70 - 130				02/21/13 12:04	02/22/13 14:34	1
Toluene-d8 (Surr)	85		70 - 130				02/21/13 12:04	02/22/13 14:34	1
Method: 8270D - Semivolatile	Organic Compou	inds (GC/M	S)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0698	0.0104	mg/Kg	П	02/21/13 12:31	02/22/13 18:20	1
Acenaphthylene	ND		0.0698	0.00937	mg/Kg	D	02/21/13 12:31	02/22/13 18:20	1
Anthracene	ND		0.0698	0.00937	mg/Kg	22	02/21/13 12:31	02/22/13 18:20	1
Benzo[a]anthracene	ND		0.0698	0.0156	mg/Kg	13	02/21/13 12:31	02/22/13 18:20	1
Benzo[a]pyrene	ND		0.0698	0.0125	mg/Kg	a	02/21/13 12:31	02/22/13 18:20	1
Benzo[b]fluoranthene	ND		0.0698	0.0125	mg/Kg	0	02/21/13 12:31	02/22/13 18:20	1
Benzo[g,h,i]perylene	ND		0.0698	0.00937	mg/Kg	to.	02/21/13 12:31	02/22/13 18:20	1
Benzo[k]fluoranthene	ND		0.0698	0.0146	mg/Kg	13	02/21/13 12:31	02/22/13 18:20	1
1-Methylnaphthalene	ND		0.0698	0.0146	mg/Kg	32	02/21/13 12:31	02/22/13 18:20	1
Pyrene	ND		0.0698	0.0125	mg/Kg	O	02/21/13 12:31	02/22/13 18:20	1
Phenanthrene	ND		0.0698	0.00937	mg/Kg	n	02/21/13 12:31	02/22/13 18:20	1
Chrysene	ND		0.0698	0.00937	mg/Kg	II	02/21/13 12:31	02/22/13 18:20	1
Dibenz(a,h)anthracene	ND		0.0698	0.00729	mg/Kg	22	02/21/13 12:31	02/22/13 18:20	1
Fluoranthene	ND		0.0698	0.00937	mg/Kg	Ø	02/21/13 12:31	02/22/13 18:20	1
Fluorene	ND		0.0698	0.0125	mg/Kg	D	02/21/13 12:31	02/22/13 18:20	1
Indeno[1,2,3-cd]pyrene	ND		0.0698	0.0104	mg/Kg	0	02/21/13 12:31	02/22/13 18:20	1
Naphthalene	ND		0.0698	0.00937	mg/Kg	12	02/21/13 12:31	02/22/13 18:20	1
2-Methylnaphthalene	ND		0,0698	0.0167	mg/Kg	п	02/21/13 12:31	02/22/13 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	61		29 - 120				02/21/13 12:31	02/22/13 18:20	1
Terphenyl-d14 (Surr)	83		13 - 120				02/21/13 12:31	02/22/13 18:20	1
Nitrobenzene-d5 (Surr)	61		27 - 120				02/21/13 12:31	02/22/13 18:20	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

0.10

Page 6 of 21

0.10 %

96

02/21/13 10:26

Client Sample Results

Client: Environmental Enterprise Group Project/Site: Laural Bay Housing Project

Date Collected: 02/15/13 11:45

Date Received: 02/20/13 08:20

Surrogate

2-Fluorobiphenyl (Surr)

Client Sample ID: 778 Laural Bay Blvd

TestAmerica Job ID: 490-20028-1

SDG: SC

Lab Sample ID: 490-20028-2

Matrix: Solid

Percent Solids: 93.5

Method: 8260B - Volatile	Organic Compounds (GC/MS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared
			0.00070			39	20101110 10 0

Method: 8260B - Volatile Or	ganic Compounds (GC/MS	5)						
Analyte	Result Qualifie	er RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	0.00270	0.000903	mg/Kg	323	02/21/13 12:04	02/22/13 15:04	1
Ethylbenzene	ND	0.00270	0.000903	mg/Kg	33	02/21/13 12:04	02/22/13 15:04	1
Naphthalene	ND	0.00674	0.00229	mg/Kg	13	02/21/13 12:04	02/22/13 15:04	1
Toluene	ND	0.00270	0.000997	mg/Kg	n	02/21/13 12:04	02/22/13 15:04	1
Xylenes, Total	ND	0.00674	0.000903	mg/Kg	n	02/21/13 12:04	02/22/13 15:04	1
Surrogate	%Recovery Qualifie	er Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	103	70 - 130	02/21/13 12:04	02/22/13 15:04	1	
4-Bromofluorobenzene (Surr)	101	70 - 130	02/21/13 12:04	02/22/13 15:04	1	
Dibromofluoromethane (Surr)	100	70 - 130	02/21/13 12:04	02/22/13 15:04	1	
Toluene-d8 (Surr)	88	70 - 130	02/21/13 12:04	02/22/13 15:04	1	

Toluene-d8 (Surr)	88		70 - 130				02/21/13 12:04	02/22/13 15:04	1
Method: 8270D - Semivolatile	Organic Compour	nds (GC/MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0715	0.0107	mg/Kg	D	02/21/13 12:31	02/22/13 18:41	1
Acenaphthylene	ND		0.0715	0.00960	mg/Kg	TI.	02/21/13 12:31	02/22/13 18:41	1
Anthracene	ND		0.0715	0.00960	mg/Kg	D	02/21/13 12:31	02/22/13 18:41	1
Benzo[a]anthracene	0.182		0.0715	0.0160	mg/Kg	10	02/21/13 12:31	02/22/13 18:41	1
Benzo[a]pyrene	0.148		0.0715	0.0128	mg/Kg	D	02/21/13 12:31	02/22/13 18:41	1
Benzo[b]fluoranthene	0.227		0.0715	0.0128	mg/Kg	11	02/21/13 12:31	02/22/13 18:41	1
Benzo[g,h,i]perylene	0.194		0.0715	0.00960	mg/Kg	O.	02/21/13 12:31	02/22/13 18:41	1
Benzo[k]fluoranthene	0.0981		0.0715	0.0149	mg/Kg	b	02/21/13.12:31	02/22/13 18:41	1
1-Methylnaphthalene	ND		0.0715	0.0149	mg/Kg	17	02/21/13 12:31	02/22/13 18:41	1
Pyrene	0.176		0.0715	0.0128	mg/Kg	13	02/21/13 12:31	02/22/13 18:41	1
Phenanthrene	ND		0.0715	0.00960	mg/Kg	T	02/21/13 12:31	02/22/13 18:41	1
Chrysene	0.186		0.0715	0.00960	mg/Kg	O	02/21/13 12:31	02/22/13 18:41	1
Dibenz(a,h)anthracene	0.0405	J	0.0715	0.00747	mg/Kg	D	02/21/13 12:31	02/22/13 18:41	1
Fluoranthene	0.117		0.0715	0.00960	mg/Kg	ŭ	02/21/13 12:31	02/22/13 18:41	1
Fluorene	ND		0.0715	0.0128	mg/Kg	22	02/21/13 12:31	02/22/13 18:41	1
Indeno[1,2,3-cd]pyrene	0.150		0.0715	0.0107	mg/Kg	D	02/21/13 12:31	02/22/13 18:41	1
Naphthalene	ND		0.0715	0.00960	mg/Kg	0	02/21/13 12:31	02/22/13 18:41	1
2-Methylnaphthalene	ND		0.0715	0.0171	mg/Kg	o	02/21/13 12:31	02/22/13 18:41	1

Terphenyl-d14 (Surr)	72		13 - 120				02/21/13 12:31	02/22/13 18:41	1
Nitrobenzene-d5 (Surr)	55		27 - 120				02/21/13 12:31	02/22/13 18:41	1
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94		0.10	0.10	%			02/21/13 10:26	1

Limits

29 - 120

%Recovery Qualifier

58

2/28/2013

Analyzed

02/22/13 18:41

Prepared

02/21/13 12:31

Dil Fac













Client Sample Results

Client: Environmental Enterprise Group Project/Site: Laural Bay Housing Project TestAmerica Job ID: 490-20028-1

SDG: SC

Client Sample ID: 759 Althea

Date Collected: 02/14/13 11:35 Date Received: 02/20/13 08:20

Lab Sample ID: 490-20028-3

Matrix: Solid

Percent Solids: 73.8

	-
Dil Fac	5
1	_

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	0.00310	0.00104	mg/Kg	O	02/21/13 12:04	02/22/13 15:34	1
Ethylbenzene	ND	0.00310	0.00104	mg/Kg	O	02/21/13 12:04	02/22/13 15:34	1
Naphthalene	ND	0.00776	0.00264	mg/Kg	TQ.	02/21/13 12:04	02/22/13 15:34	1
Toluene	ND	0.00310	0.00115	mg/Kg	121	02/21/13 12:04	02/22/13 15:34	1
Xylenes, Total	ND	0.00776	0.00104	mg/Kg	П	02/21/13 12:04	02/22/13 15:34	1

Xylenes, Total	ND	0.00776	0.00104 mg/Kg	П	02/21/13 12:04	02/22/13 15:34	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116	70 - 130			02/21/13 12:04	02/22/13 15:34	1
4-Bromofluorobenzene (Surr)	101	70 - 130			02/21/13 12:04	02/22/13 15:34	1
Dibromofluoromethane (Surr)	111	70 - 130	~		02/21/13 12:04	02/22/13 15:34	1
Toluene-d8 (Surr)	87	70 - 130			02/21/13 12:04	02/22/13 15:34	1

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1,2-Dichloroethane-d4 (Surr)	116		70 - 130				02/21/13 12:04	02/22/13 15:34	1
4-Bromofluorobenzene (Surr)	101		70 - 130				02/21/13 12:04	02/22/13 15:34	1
Dibromofluoromethane (Surr)	111		70 - 130			-	02/21/13 12:04	02/22/13 15:34	1
Toluene-d8 (Surr)	87		70 - 130				02/21/13 12:04	02/22/13 15:34	1
Method: 8270D - Semivolatile	Organic Compou	nds (GC/MS	S)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0892	0.0133	mg/Kg	п	02/21/13 12:31	02/22/13 19:02	1
Acenaphthylene	ND		0.0892	0.0120	mg/Kg	TI.	02/21/13 12:31	02/22/13 19:02	1
Anthracene	ND		0.0892	0.0120	mg/Kg	D.	02/21/13 12:31	02/22/13 19:02	1
Benzo[a]anthracene	ND		0.0892	0.0200	mg/Kg	D	02/21/13 12:31	02/22/13 19:02	1
Benzo[a]pyrene	ND		0.0892	0.0160	mg/Kg	E .	02/21/13 12:31	02/22/13 19:02	1
Benzo[b]fluoranthene	ND		0.0892	0.0160	mg/Kg	t7	02/21/13 12:31	02/22/13 19:02	1
Benzo[g,h,i]perylene	ND		0.0892	0.0120	mg/Kg	120	02/21/13 12:31	02/22/13 19:02	1
Benzo[k]fluoranthene	ND		0.0892	0.0186	mg/Kg	D.	02/21/13 12:31	02/22/13 19:02	1
1-Methylnaphthalene	ND		0.0892	0.0186	mg/Kg	O	02/21/13 12:31	02/22/13 19:02	1
Pyrene	ND		0.0892	0.0160	mg/Kg	0	02/21/13 12:31	02/22/13 19:02	1
Phenanthrene	ND		0.0892	0.0120	mg/Kg	22	02/21/13 12:31	02/22/13 19:02	1
Chrysene	ND		0.0892	0.0120	mg/Kg	n	02/21/13 12:31	02/22/13 19:02	1
Dibenz(a,h)anthracene	ND		0.0892	0.00932	mg/Kg	12	02/21/13 12:31	02/22/13 19:02	1
Fluoranthene	ND		0.0892	0.0120	mg/Kg	Ö	02/21/13 12:31	02/22/13 19:02	1
Fluorene	ND		0.0892	0.0160	mg/Kg	п	02/21/13 12:31	02/22/13 19:02	1
Indeno[1,2,3-cd]pyrene	ND		0.0892	0.0133	mg/Kg	II.	02/21/13 12:31	02/22/13 19:02	1
Naphthalene	ND		0.0892	0.0120	mg/Kg	-0	02/21/13 12:31	02/22/13 19:02	1
2-Methylnaphthalene	ND		0.0892	0.0213	mg/Kg		02/21/13 12:31	02/22/13 19:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	62		29 - 120				02/21/13 12:31	02/22/13 19:02	1
Terphenyl-d14 (Surr)	75		13 - 120				02/21/13 12:31	02/22/13 19:02	1
Nitrobenzene-d5 (Surr)	58		27 - 120				02/21/13 12:31	02/22/13 19:02	1

Terphenyl-d14 (Surr)	75		13 - 120				02/21/13 12:31	02/22/13 19:02	1
Nitrobenzene-d5 (Surr)	58		27 - 120				02/21/13 12:31	02/22/13 19:02	1
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	74		0.10	0.10	%			02/21/13 10:26	1

Client Sample Results

Client: Environmental Enterprise Group Project/Site: Laural Bay Housing Project TestAmerica Job ID: 490-20028-1

SDG: SC

Client Sample ID: 1476 Cardinal

Date Collected: 02/18/13 15:30 Date Received: 02/20/13 08:20

Percent Solids

Lab Sample ID: 490-20028-4

Matrix: Solid

Percent Solids: 79.6

Method: 8260B - Volatile Orga	The second second second second	and the same of th	DI	MAN	11-14		Designation	Austread	D0 5-
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00242	0.000810	mg/Kg	B	02/21/13 12:04	02/22/13 16:05	1
Ethylbenzene	ND		0.00242	0.000810	mg/Kg	B	02/21/13 12:04	02/22/13 16:05	1
Naphthalene	ND		0.00605	0.00206	mg/Kg	p	02/21/13 12:04	02/22/13 16:05	1
Toluene	ND		0.00242	0.000895	mg/Kg	D	02/21/13 12:04	02/22/13 16:05	1
Xylenes, Total	ND		0.00605	0.000810	mg/Kg		02/21/13 12:04	02/22/13 16:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130				02/21/13 12:04	02/22/13 16:05	1
4-Bromofluorobenzene (Surr)	102		70 - 130				02/21/13 12:04	02/22/13 16:05	1
Dibromofluoromethane (Surr)	101		70 - 130				02/21/13 12:04	02/22/13 16:05	1
Toluene-d8 (Surr)	88		70 - 130				02/21/13 12:04	02/22/13 16:05	1
Method: 8270D - Semivolatile	Organic Compou	nds (GC/M	3)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0841	0.0126	mg/Kg	O	02/21/13 12:31	02/22/13 19:24	1
Acenaphthylene	ND		0.0841	0.0113	mg/Kg	D	02/21/13 12:31	02/22/13 19:24	1
Anthracene	ND		0.0841	0.0113	mg/Kg	0	02/21/13 12:31	02/22/13 19:24	1
Benzo[a]anthracene	ND		0.0841	0.0188	mg/Kg	II.	02/21/13 12:31	02/22/13 19:24	1
Benzo[a]pyrene	ND		0.0841	0.0151	mg/Kg	.03	02/21/13 12:31	02/22/13 19:24	1
Benzo[b]fluoranthene	ND		0.0841	0.0151	mg/Kg	33	02/21/13 12:31	02/22/13 19:24	1
Benzo[g,h,i]perylene	ND		0.0841	0.0113	mg/Kg	33	02/21/13 12:31	02/22/13 19:24	1
Benzo[k]fluoranthene	ND		0.0841	0.0176	mg/Kg	n	02/21/13 12:31	02/22/13 19:24	1
1-Methylnaphthalene	ND		0.0841	0.0176	mg/Kg	11	02/21/13 12:31	02/22/13 19:24	1
Pyrene	ND		0.0841	0.0151	mg/Kg	13	02/21/13 12:31	02/22/13 19:24	1
Phenanthrene	ND		0.0841	0.0113	mg/Kg	0	02/21/13 12:31	02/22/13 19:24	1
Chrysene	ND		0.0841	0.0113	mg/Kg	α.	02/21/13 12:31	02/22/13 19:24	1
Dibenz(a,h)anthracene	ND		0.0841	0.00879	mg/Kg	0	02/21/13 12:31	02/22/13 19:24	1
Fluoranthene	ND		0.0841	0.0113	mg/Kg	n	02/21/13 12:31	02/22/13 19:24	1
Fluorene	ND		0.0841	0.0151	mg/Kg	11	02/21/13 12:31	02/22/13 19:24	1
Indeno[1,2,3-cd]pyrene	ND		0.0841	0.0126	mg/Kg	TI.	02/21/13 12:31	02/22/13 19:24	1
Naphthalene	ND		0.0841	0.0113	mg/Kg	Ø	02/21/13 12:31	02/22/13 19:24	1
2-Methylnaphthalene	ND		0.0841	0.0201	mg/Kg	O	02/21/13 12:31	02/22/13 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	54		29 - 120				02/21/13 12:31	02/22/13 19:24	1
Terphenyl-d14 (Surr)	66		13 - 120				02/21/13 12:31	02/22/13 19:24	1
Nitrobenzene-d5 (Surr)	51		27 - 120				02/21/13 12:31	02/22/13 19:24	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

02/21/13 10:26

0.10

0.10 %

80

Client: Environmental Enterprise Group Project/Site: Laural Bay Housing Project TestAmerica Job ID: 490-20028-1

SDG: SC

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-60360/6

Matrix: Solid

Analysis Batch: 60360

Client Sample ID: Method Blank

Prep Type: Total/NA

	III.D	IIIO							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			02/22/13 12:03	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			02/22/13 12:03	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			02/22/13 12:03	1
Toluene	ND		0.00200	0.000740	mg/Kg			02/22/13 12:03	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			02/22/13 12:03	1

MB MB Limits Dil Fac Qualifier Prepared Analyzed 70 - 130 02/22/13 12:03

Surrogate %Recovery 1,2-Dichloroethane-d4 (Surr) 102 02/22/13 12:03 99 70 - 130 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) 98 70 - 130 02/22/13 12:03 02/22/13 12:03 Toluene-d8 (Surr) 87 70 - 130

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Lab Sample ID: LCS 490-60360/3 Matrix: Solid

Analysis Batch: 60360

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.0500	0.04638		mg/Kg		93	75 - 127
Ethylbenzene	0.0500	0.04756		mg/Kg		95	80 - 134
Naphthalene	0.0500	0.06296		mg/Kg		126	69 - 150
Toluene	0.0500	0.04218		mg/Kg		84	80 - 132
Xylenes, Total	0.150	0.1384		mg/Kg		92	80 - 137

LCS LCS Limits %Recovery Qualifier Surrogate 70 - 130 1,2-Dichloroethane-d4 (Surr) 99 70 - 130 4-Bromofluorobenzene (Surr) 96 Dibromofluoromethane (Surr) 103 70 - 130 Toluene-d8 (Surr) 87 70 - 130

Lab Sample ID: LCSD 490-60360/4

Matrix: Solid

Analysis Batch: 60360

Analysis Batom evec	Spike	LCSD LCSD				%Rec.		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.05314	mg/Kg		106	75 - 127	14	50
Ethylbenzene	0.0500	0.05413	mg/Kg		108	80 - 134	13	50
Naphthalene	0.0500	0.06789	mg/Kg		136	69 - 150	8	50
Toluene	0.0500	0.04908	mg/Kg		98	80 - 132	15	50
Xvlenes, Total	0.150	0.1566	mg/Kg		104	80 - 137	12	50

LCSD LCSD Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 99 70 - 130 4-Bromofluorobenzene (Surr) 95 70 - 130 Dibromofluoromethane (Surr) 105 70 - 130 Toluene-d8 (Surr) 85 70 - 130

TestAmerica Nashville

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Client: Environmental Enterprise Group Project/Site: Laural Bay Housing Project TestAmerica Job ID: 490-20028-1

SDG: SC

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

%Recovery Qualifier

58

80

56

Lab Sample ID: MB 490-60200/1-A

Matrix: Solid

Analysis Batch: 60459

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60200

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		02/21/13 12:31	02/22/13 14:26	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		02/21/13 12:31	02/22/13 14:26	1
Anthracene	ND		0.0670	0.00900	mg/Kg		02/21/13 12:31	02/22/13 14:26	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		02/21/13 12:31	02/22/13 14:26	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		02/21/13 12:31	02/22/13 14:26	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		02/21/13 12:31	02/22/13 14:26	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		02/21/13 12:31	02/22/13 14:26	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		02/21/13 12:31	02/22/13 14:26	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		02/21/13 12:31	02/22/13 14:26	1
Pyrene	ND		0.0670	0.0120	mg/Kg		02/21/13 12:31	02/22/13 14:26	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		02/21/13 12:31	02/22/13 14:26	1
Chrysene	ND		0.0670	0.00900	mg/Kg		02/21/13 12:31	02/22/13 14:26	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		02/21/13 12:31	02/22/13 14:26	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		02/21/13 12:31	02/22/13 14:26	1
Fluorene	ND		0.0670	0.0120	mg/Kg		02/21/13 12:31	02/22/13 14:26	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		02/21/13 12:31	02/22/13 14:26	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		02/21/13 12:31	02/22/13 14:26	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		02/21/13 12:31	02/22/13 14:26	1
	мв	мв							

Limits

29 - 120

13 - 120

27 - 120

Lab Sample ID: LCS 490-60200/2-A

Matrix: Solid

Surrogate

Analysis Batch: 60459

2-Fluorobiphenyl (Surr)

Nitrobenzene-d5 (Surr)

Terphenyl-d14 (Surr)

Client	Sample	ID:	Lab	Control	Sample
			D	Transaction 7	C-4-1/61 A

Analyzed

02/22/13 14:26

02/22/13 14:26

02/22/13 14:26

Prepared

02/21/13 12:31

02/21/13 12:31

02/21/13 12:31

Prep Type: Total/NA Prep Batch: 60200

Analysis Batch: 60459	Spike	LCS LC	-e		%Rec.
Auchte				D 0/D	
Analyte	Added	Result Qu		D %Rec	Limits
Acenaphthylene	1.67	1.274	mg/Kg	76	38 - 120
Anthracene	1.67	1.177	mg/Kg	71	46 - 124
Benzo[a]anthracene	1.67	1.325	mg/Kg	80	45 - 120
Benzo[a]pyrene	1.67	1.261	mg/Kg	76	45 - 120
Benzo[b]fluoranthene	1.67	1.307	mg/Kg	78	42 - 120
Benzo[g,h,i]perylene	1.67	1.234	mg/Kg	74	38 - 120
Benzo[k]fluoranthene	1.67	1.288	mg/Kg	77	42 - 120
1-Methylnaphthalene	1.67	1.292	mg/Kg	78	32 - 120
Pyrene	1.67	1.274	mg/Kg	76	43 - 120
Phenanthrene	1.67	1.241	mg/Kg	74	45 - 120
Chrysene	1.67	1.187	mg/Kg	71	43 - 120
Dibenz(a,h)anthracene	1.67	1.309	mg/Kg	79	32 - 128
Fluoranthene	1.67	1.188	mg/Kg	71	46 - 120
Fluorene	1.67	1.237	mg/Kg	74	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.316	mg/Kg	79	41 - 121
Naphthalene	1.67	1.279	mg/Kg	77	32 - 120
2-Methylnaphthalene	1.67	1.341	mg/Kg	80	28 - 120

TestAmerica Nashville

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Dil Fac

Client: Environmental Enterprise Group Project/Site: Laural Bay Housing Project TestAmerica Job ID: 490-20028-1

SDG: SC

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-60200/2-A

Lab Sample ID: 490-20019-A-1-B MS

Matrix: Solid

Matrix: Solid

Chrysene

Fluorene

Fluoranthene

Naphthalene

Dibenz(a,h)anthracene

Indeno[1,2,3-cd]pyrene

2-Methylnaphthalene

Matrix: Solid

Lab Sample ID: 490-20019-A-1-C MSD

Analysis Batch: 60459

Analysis Batch: 60459

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60200

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	64		29 - 120
Terphenyl-d14 (Surr)	77		13 - 120
Nitrobenzene-d5 (Surr)	67		27 - 120

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 60200

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	ND		1.96	1.386		mg/Kg	17	71	25 - 120
Anthracene	ND		1.96	1.298		mg/Kg	121	66	28 - 125
Benzo[a]anthracene	ND		1.96	1.450		mg/Kg	H	74	23 - 120
Benzo[a]pyrene	ND		1.96	1.421		mg/Kg	E	73	15 - 128
Benzo[b]fluoranthene	ND		1.96	1.500		mg/Kg	П	76	12 - 133
Benzo[g,h,i]perylene	ND		1.96	1.412		mg/Kg	12	72	22 - 120
Benzo[k]fluoranthene	ND		1.96	1.478		mg/Kg	70	75	28 - 120
1-Methylnaphthalene	ND		1.96	1.453		mg/Kg	33.	74	10 - 120
Pyrene	ND		1.96	1.439		mg/Kg	D	73	20 - 123
Phenanthrene	ND		1.96	1.367		mg/Kg	11	70	21 - 122

1.388

1.428

1.335

1.383

1.490

1.363

1.458

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

1.96

1.96

1.96

1.96

1.96

1.96

1.96

MS MS

ND

ND

ND

ND

ND

ND

ND

		,,,,	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	56		29 - 120
Terphenyl-d14 (Surr)	72		13 - 120
Nitrobenzene-d5 (Surr)	58		27 - 120

Client Sample ID: Matrix Spike Duplicate

71

73

68

76

70

74

D

20 - 120

12 - 128

10 - 143

20 - 120

22 - 121

10 - 120

13 - 120

Prep Type: Total/NA

Dran Batabi 60200

Analysis Batch: 60459									Prep	Batch:	60200
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	ND		1.95	1.314		mg/Kg	E	67	25 - 120	5	50
Anthracene	ND		1.95	1.237		mg/Kg	D	63	28 - 125	5	49
Benzo[a]anthracene	ND		1.95	1.380		mg/Kg	D	71	23 - 120	5	50
Benzo[a]pyrene	ND		1.95	1,350		mg/Kg	E	69	15 - 128	5	50
Benzo[b]fluoranthene	ND		1.95	1.407		mg/Kg	E	72	12 - 133	6	50
Benzo[g,h,i]perylene	ND		1,95	1.336		mg/Kg	B	68	22 - 120	6	50
Benzo[k]fluoranthene	ND		1.95	1.373		mg/Kg	0	70	28 - 120	7	45
1-Methylnaphthalene	ND		1.95	1.327		mg/Kg	300	68	10 - 120	9	50
Pyrene	ND		1.95	1.384		mg/Kg	TY	71	20 - 123	4	50
Phenanthrene	ND		1.95	1.310		mg/Kg	121	67	21 - 122	4	50
Chrysene	ND		1.95	1.307		mg/Kg	D	67	20 - 120	6	49

TestAmerica Nashville

2/28/2013

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Client: Environmental Enterprise Group Project/Site: Laural Bay Housing Project TestAmerica Job ID: 490-20028-1

SDG: SC

Client Sample ID: 831 Azalea

Prep Type: Total/NA

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-20019-A-1-	C MSD			Client Sample ID: Matrix Spike Du	uplicate
Matrix: Solid				Prep Type: T	otal/NA
Analysis Batch: 60459				Prep Batch	: 60200
	Sample Sample	Spike	MSD MSD	%Rec.	RPD

Analysis Batch: 60459									Prep	Batch:	60200
And the second second second	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Dibenz(a,h)anthracene	ND		1.95	1.398		mg/Kg	22	72	12 - 128	2	50
Fluoranthene	ND		1.95	1.268		mg/Kg	0	65	10 - 143	5	50
Fluorene	ND		1.95	1.294		mg/Kg	n	66	20 - 120	7	50
Indeno[1,2,3-cd]pyrene	ND		1.95	1.393		mg/Kg	D	71	22 - 121	7	50
Naphthalene	ND		1.95	1.304		mg/Kg	D	67	10 - 120	4	50
2-Methylnaphthalene	ND		1.95	1.345		mg/Kg	23	69	13 - 120	8	50
2-Methylnaphthalene	ND		1.95	1.345		mg/kg		69	13 - 120	0	

				11.00		1000	
	MSD	MSD					
Surrogate	%Recovery	Qualifier	Limits				
2-Fluorobiphenyl (Surr)	54		29 - 120				
Terphenyl-d14 (Surr)	71		13 - 120				
Nitrobenzene-d5 (Surr)	56		27 - 120				

Method: Moisture - Percent Moisture

Lab Sample ID: 490-20028-1 DU

Matrix: Solid

Analysis Batch: 60116

	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Percent Solids	96		. 96		%		0.1	20

QC Association Summary

Client: Environmental Enterprise Group Project/Site: Laural Bay Housing Project TestAmerica Job ID: 490-20028-1 SDG: SC

SC

GC/MS VOA

Prep Batch: 60180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20028-1	831 Azalea	Total/NA	Solid	5035	
490-20028-2	778 Laural Bay Blvd	Total/NA	Solid	5035	
490-20028-3	759 Althea	Total/NA	Solid	5035	
490-20028-4	1476 Cardinal	Total/NA	Solid	5035	

Analysis Batch: 60360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20028-1	831 Azalea	Total/NA	Solid	8260B	60180
490-20028-2	778 Laural Bay Blvd	Total/NA	Solid	8260B	60180
490-20028-3	759 Althea	Total/NA	Solid	8260B	60180
490-20028-4	1476 Cardinal	Total/NA	Solid	8260B	60180
LCS 490-60360/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-60360/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-60360/6	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 60200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20019-A-1-B MS	Matrix Spike	Total/NA	Solid	3550C	
490-20019-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
490-20028-1	831 Azalea	Total/NA	Solid	3550C	
490-20028-2	778 Laural Bay Blvd	Total/NA	Solid	3550C	
490-20028-3	759 Althea	Total/NA	Solid	3550C	
490-20028-4	1476 Cardinal	Total/NA	Solid	3550C	
LCS 490-60200/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-60200/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 60459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20019-A-1-B MS	Matrix Spike	Total/NA	Solid	8270D	60200
490-20019-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	60200
490-20028-1	831 Azalea	Total/NA	Solid	8270D	60200
490-20028-2	778 Laural Bay Blvd	Total/NA	Solid	8270D	60200
490-20028-3	759 Althea	Total/NA	Solid	8270D	60200
490-20028-4	1476 Cardinal	Total/NA	Solid	8270D	60200
LCS 490-60200/2-A	Lab Control Sample	Total/NA	Solid	8270D	60200
MB 490-60200/1-A	Method Blank	Total/NA	Solid	8270D	60200

General Chemistry

Analysis Batch: 60116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20028-1	831 Azalea	Total/NA	Solid	Moisture	
490-20028-1 DU	831 Azalea	Total/NA	Solid	Moisture	
490-20028-2	778 Laural Bay Blvd	Total/NA	Solid	Moisture	
490-20028-3	759 Althea	Total/NA	Solid	Moisture	
490-20028-4	1476 Cardinal	Total/NA	Solid	Moisture	

TestAmerica Nashville

Lab Chronicle

Client: Environmental Enterprise Group Project/Site: Laural Bay Housing Project

Client Sample ID: 778 Laural Bay Blvd

Analysis

Moisture

TestAmerica Job ID: 490-20028-1

SDG: SC

Client Sample ID: 831 Azalea

Date Collected: 02/18/13 13:45 Date Received: 02/20/13 08:20

Date Collected: 02/15/13 11:45

Date Received: 02/20/13 08:20

Total/NA

Lab Sample ID: 490-20028-1

Matrix: Solid

Percent Solids: 95.7

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			60180	02/21/13 12:04	ML	TAL NSH
Total/NA	Analysis	8260B		1	60360	02/22/13 14:34	AF	TAL NSH
Total/NA	Prep	3550C			60200	02/21/13 12:31	AK	TAL NSH
Total/NA	Analysis	8270D		1	60459	02/22/13 18:20	JS	TAL NSH
Total/NA	Analysis	Moisture		1	60116	02/21/13 10:26	RS	TAL NSH

Lab Sample ID: 490-20028-2

Lab TAL NSH TAL NSH TAL NSH TAL NSH TAL NSH Matrix: Solid

Percent Solids: 93.5

	Batch	Batch		Dilution	Batch	Prepared	
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analy
Total/NA	Prep	5035			60180	02/21/13 12:04	ML
Total/NA	Analysis	8260B		1	60360	02/22/13 15:04	AF
Total/NA	Prep	3550C			60200	02/21/13 12:31	AK
Total/NA	Analysis	8270D		1	60459	02/22/13 18:41	JS

Client Sample ID: 759 Althea Lab Sample ID: 490-20028-3

Date Collected: 02/14/13 11:35 Matrix: Solid Date Received: 02/20/13 08:20

60116 02/21/13 10:26 RS

Percent Solids: 73.8

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			60180	02/21/13 12:04	ML	TAL NSH
Total/NA	Analysis	8260B		1	60360	02/22/13 15:34	AF	TAL NSH
Total/NA	Prep	3550C			60200	02/21/13 12:31	AK	TAL NSH
Total/NA	Analysis	8270D		1	60459	02/22/13 19:02	JS	TAL NSH
Total/NA	Analysis	Moisture		1	60116	02/21/13 10:26	RS	TAL NSH

Client Sample ID: 1476 Cardinal

Date Collected: 02/18/13 15:30

Date Received: 02/20/13 08:20

Lab Sample ID: 490-20028-4

Percent Solids: 79.6

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			60180	02/21/13 12:04	ML	TAL NSH
Total/NA	Analysis	8260B		1	60360	02/22/13 16:05	AF	TAL NSH
Total/NA	Prep	3550C			60200	02/21/13 12:31	AK	TAL NSH
Total/NA	Analysis	8270D		1	60459	02/22/13 19:24	JS	TAL NSH
Total/NA	Analysis	Moisture		1	60116	02/21/13 10:26	RS	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica Nashville

Matrix: Solid

Method Summary

Client: Environmental Enterprise Group Project/Site: Laural Bay Housing Project TestAmerica Job ID: 490-20028-1

SDG: SC

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
Moisture	Percent Moisture	EPA	TAL NSH

Protocol References:

EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

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Certification Summary

Client: Environmental Enterprise Group Project/Site: Laural Bay Housing Project

TestAmerica Job ID: 490-20028-1

SDG: SC

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-13
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAP	9	1168CA	10-31-13
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Colorado	State Program	8	N/A	02-28-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-13
Illinois	NELAP	5	200010	12-09-13
lowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAP	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAP	1	2963	10-09-13
New Jersey	NELAP	2	TN965	06-30-13
New York	NELAP	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-13
Oregon	NELAP	10	TN200001	04-30-13
Pennsylvania	NELAP	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-13
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAP	8	TAN	06-30-13
Virginia	NELAP	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

Nashville, TN

COOLER RECEIPT FORM



Cooler Received/Opened On2/20/2013 @ 0820	90-20028 Ohala 4
1. Tracking # 9696 (last 4 digits, FedEx)	or 20026 Chain of C
Courier:Fedex IR Gun ID17960358	
2. Temperature of rep. sample or temp blank when opened: 1 Degrees Celsius	
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank froze	en? YES NO NA
Were custody seals on outside of cooler?	ES.NONA
If yes, how many and where:	
5. Were the seals intact, signed, and dated correctly?	FES NO NA
5. Were custody papers inside cooler?	YES NO NA
certify that I opened the cooler and answered questions 1-6 (Intial)	
7. Were custody seals on containers: YES NO and Intact	YESNO
Were these signed and dated correctly?	YESNO. (NA)
B. Packing mat'l used?/Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Pa	per Other None
D. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry	ice Other None
0. Did all containers arrive in good condition (unbroken)?	(YES).NONA
Were all container labels complete (#, date, signed, pres., etc)?	FESNONA
2. Did all container labels and tags agree with custody papers?	YESNONA
3a. Were VOA vials received?	(YES)NONA
b. Was there any observable headspace present in any VOA vial?	YES. NONA
4. Was there a Trip Blank in this cooler? YESNO(NA) If multiple coolers, sequ	ence # MA
certify that I unloaded the cooler and answered questions 7-14 (Intial)	GA
5a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH lev	el? YES NO NA
b. Did the bottle labels indicate that the correct preservatives were used	YES NO NA
6. Was residual chlorine present?	YESNO. NA
	DA
certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intia	A
7. Were custody papers properly filled out (ink, signed, etc)?	YESNONA
8. Did you sign the custody papers in the appropriate place?	KESNONA
9. Were correct containers used for the analysis requested?	YESNONA
Was sufficient amount of sample sent in each container?	ESNONA
certify that I entered this project into LIMS and answered questions 17-20 (intial)	-

Relinquished by:	Relinquished by		Special instructions:					759 Alther	778 LAUREIDAYBING	831 AZAlAA	Sample ID / Description		Sampler Signature:	Sampler Name: (Print)	Telephone Number: 843.412.2097	Project Manager	City/State/Zip	Address	Client Name/Account #: EEG - SBG # 2449	THE LEADER IN ENVIRONMENTAL TESTING
Date	Date							2/14/13 113	2/15/13 1145	3/18/13 /345	Date Sampled Time Sampled	7 /	TO TO	ChrisT	843.412.2097	Project Manager: Tom McElwee email: mcelwee@eeginc.net	City/State/Zip: Ladson, SC 29456	Address: 10179 Highway 78	: EEG - SBG # 2449	
Time	8900							35 5 X	U,	5	No. of Containers Shipped			MStall		celwee@eegin				Nashville Division 2960 Foster Creighton Nashville, TN 37204
Responsed by	Received by								×	×	Composite Field Filtered				Fax	c.net				ton
TestAnderica:	X	Method of Shipment:						70	S	دع	HCH(Blue-Label) HCH(Blue-Label) NaOH (Orange Label)	Seservative			Fax No.: 843					Phon Toll Fre Fa:
M		ment:						92	2	2/	H ₂ SO ₄ Plastic (Yellow Labet) H ₂ SO ₄ Glass(Yellow Labet) None (Black Labet) Other (Specify)	rative	1		843-879-					Phone: 615-726-0177 Toll Free: 800-765-0980 Fax: 615-726-3404
2.20-13	Date					-					Groundwater Wastewater Drinking Water Sludge	Matrix			10401					77 04
71/ QEIS	Time	FEDEX						XX	XX	×	Soil Other (specify): BTEX + Napth - 8260	H	Proj	Proje	TA Quote #:		Site S			
16			Labora		1			X-	Υ.	×	PAH - 8270D		Project #:	ct ID: Laurel E	ote#:	PO#. /2	Site State: SC			To assis methods regulato
		Temperature Upon Receipt VOCs Free of Headspace?	Laboratory Comments:		1							Analy		Project ID: Laurel Bay Housing Project		1063		m m	Con	To assist us in using the methods, is this work to regulatory purposes?
		pon Receipt leadspace?	is:							_	Loc: 490 20028	Analyze For:		oject				Enforcement Action?	Compliance Monitoring?	To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
											700							Yes	Yes	
		۲		1							RUSH TAT (Pre-Schedule Standard TAT							No	No	
		Z		4				-	Pag	0.1	Fax Results Send QC with report 9 of 21									

25/of Z

/28/2013

Special Instructions: THE LEADER IN ENVIRONMENTAL TESTING estAmerica CARTICA Client Name/Account #: EEG # 2449 Sampler Hame: (Print) Telephone Number: 843.412.2097
eampler Rame: (Print)
Sampler Signature: Sampler Signature: Project Manager. Tom McElwee email: mcelwee@eeginc.net City/State/Zip: Ladson, SC 29458 Address: 10179 Highway 78 2/18/13 Date Sampled Nashville Division 2960 Foster Creighton Nashville, TN 37204 1530 W HIShaw Time Sampled 5 No. of Containers Shipped Grab Composite Field Filtered Fax No.: Method of Shipment: NeOH (Orange Label) Phone: 615-726-0177 Toll Free: 300-765-0980 Fax: 615-726-3404 843-879-040 H₂SO₄ Pleatic (Yellow Label) H₂SO₄ Glass(Yellow Label) None-(Black Label) Other (Specify) Author 2-20-13 Drinking Water Matrix Date Sludge Soil FEDEX 8,20/16 Other (specify): TA Quote #: Project ID: Laurel Bay Housing Project Site State: SC Project #: Time Time BTEX + Napth - 82608 PO#: PAH - 8270D methods, is this work being conducted for To assist us in using the proper analytical regulatory purposes? Laboratory Comments: Temperature Upon Receipt VOCs Free of Headspace? 0 Compliance Monitoring? malyze For: Enforcement Action? 20028 Yes Yes No No RUSH TAT (Pre-Schedule Standard TAT Z Fax Results

Send OC with report

PS 2063

2/28/2013

Login Sample Receipt Checklist

Client: Environmental Enterprise Group

Job Number: 490-20028-1

SDG Number: SC

List Source: TestAmerica Nashville

Login Number: 20028 List Number: 1

Creator: Abernathy, Eric

Creator. Abernatry, Enc		
Question	Answer Comment	
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
	200	

N/A

Residual Chlorine Checked.

ATTACHMENT A



NON-HAZARDOUS MANIFEST

		1. Generator's U	anifest Doc I	No.	2. Page 1	of								
	NON-HAZARDOUS MANIFEST	Ģen	300	£"			1							
ı	3. Generator's Mailing Address:		lifferent than m	ailing):	A. Manife	st Number								
	MCAS BEAUFORT			t birres	w	MNA	01519111							
	LAUREL BAY HOUSING				B. State Generator's ID									
	BEAUFORT, SC 29904			시 시 하				No. 1						
	4. Generator's Phone 843-87													
	5. Transporter 1 Company Name 5													
	10179 Huy 78	9456		100			C. State Transporter's ID							
}	7. Transporter 2 Company Name	1 710	9	. US EPA I	D Number		D. Transporter's Phone Consequence							
			"				E. State Transporter's ID State Transporter S							
	Rink-sporter 2 Cernsul i 1 abs			. 斯里塔!	i? Number		F. Transporter's Phone Season with the layer							
	9. Designated Facility Name and Site	Address	1	O. US EPA	ID Number									
	HICKORY HILL LANDFILL				G. State Facility ID									
	2621 LOW COUNTRY DRIVE				Argenten.		H. State F	acility Phone	843-987-4643					
	RIDGELAND, SC 29936													
-					12 Co	ntainers	13. Total	14. Unit	T					
G	11. Description of Waste Materials				No.	Туре	Quantity	Wt./Vol.	I. Misc. Con	nments				
E	a. HEATING OIL TANK FILLED V	WITH SAND				Tyes.		ا دران از معیشت	法					
N E	1					204	7.64	10 N	7060	(1				
R		ile# 102655S	C			J								
A	b. 2.7 1 1 1 1					Type	5 4 4	We fide	10000	190.41				
T	Lit								Conservati					
R	WM Profile #					1								
	C. (1) (1) (1) (2) (2)	Est.	ly.b	1.4	28.1	1 regardes								
	MARA Due Elle M													
}	d. WM Profile #	MANI PHEF		-										
	r G.				15.50	r _{eig} ,	indias v Otv	Martin Sign	Cortue	Y * .				
							121.0							
- }	J. Additional Descriptions for Mater	ials Listed Ahove			K Dispos	al Location								
	Transport Delication	iais Listeu Above			K. Dispos	ai Location								
					Cell				Level					
	_				Grid			<u> </u>	-51.4					
	15. Special Handling Instructions and	Additional Inform	ation 14	3 1 10 m	H) 778 LANZE / BAY 6) 831 AZK									
	1)835 AZAlen				1476 CARCINAL-									
		4 3) /5	77 7											
		Purchase Order # EMERGENCY CONTACT / PHONE NO.:												
	16. GENERATOR'S CERTIFICATE:													
		rtify 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 described, classified and packaged and are in proper condition for transportation according to applicable regulations.												
	Printed Name	<i>C</i> ,	~	Signature "On beh		7			Month Da	y Year				
_	0.6	· Iloko	\mathcal{L}			200			916	73				
T R	17. Transporter 1 Acknowledgement of Receipt of Materials													
A N	Printed Name	1	and "		Month Da	Year / 3								
S P	18 Transporter 2 Acknowledgement	18. Transporter 2 Acknowledgement of Receipt of Materials												
O R	Printed Name	or Receipt of Iviati	eriais	Signature					Month Da	y Year				
Ŧ	,				10 /	1 1			11 11					
R	JAMES BALdw	iN		Jame	o bod	rectal	~		1411	<u> </u>				
F	19. Certificate of Final Treatment/Disposal													
A.	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.													
l L	20. Facility Owner or Operator: Certif				overed by th	is manifest								
+	Printed Name 70 7	/		Signature		2 1			Month Da	y Year				
ľ	TONI CON	6/6/		10m	COJ .	ld	•		4/	7 /3				
	White-TREATMENT, STORAGE, DISPO	DEAL EXCILITY COD		Blue- GENERATOR	#2 COPY	<u></u>	Va	llow- GENERA	TOP #1 COPY					

Gold-TRANSPORTER #1 COPY

Appendix C Regulatory Correspondence





Catherine B. Templeton, Director

Prograting and presering the health of the public and the environment

May 15, 2014

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

RE: No Further Action

Laurel Bay Underground Storage Tank Assessment Reports for:

See attached sheet

Dear Mr. Drawdy,

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

The Department has reviewed the referenced assessment reports and agrees there is no indication of soil or groundwater contamination on these properties, 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 kriegkm@dhec.sc.gov or 803-898-0255.

Sincerely,

Kent Krieg

Department of Defense Corrective Action Section

Bureau of Land and Waste Management

South Carolina Department of Health and Environmental Control

Cc: Russell Berry (via email)

Craig Ehde (via email)



Catherine B. Templeton, Director

Promosting and protecting the health of the public and the environment

Attachment to:

Krieg to Drawdy Subject: NFA Dated 5/15/2014

Laurel Bay Underground Storage Tank Assessment Reports for: (143 addresses/146 tanks)

212 Balsam	503 Laurel Bay
219 Balsam	508 Laurel Bay
260 Beech Tank 1	510 Laurel Bay
260 Beech Tank 2	523 Laurel Bay
267 Birch	525 Laurel Bay
287 Birch	529 Laurel Bay
302 Ash	533 Laurel Bay
305 Ash	537 Laurel Bay
334 Ash	556 Dahlia
338 Ash Tank 1	557 Dahlia
338 Ash Tank 2	559 Dahlia
361 Aspen	562 Dahlia
371 Aspen	568 Dahlia
372 Aspen Tank 1	581 Aster
372 Aspen Tank 2	582 Aster
375 Aspen	584 Aster
385 Aspen	602 Dahlia
403 Elderberry	607 Dahlia
407 Elderberry	614 Dahlia
411 Elderberry	616 Dahlia
414 Elderberry	619 Dahlia
415 Elderberry	625 Dahlia
421 Elderberry	629 Dahlia
427 Elderberry	631 Dahlia
428 Elderberry	634 Dahlia
431 Elderberry	660 Camellia
455 Elderberry	661 Camellia
484 Laurel Bay	666 Camellia
490 Laurel Bay	669 Camellia
502 Laurel Bay	672 Camellia

Laurel Bay Underground Storage Tank Assessment Reports for: (143 addresses/146 tanks) cont.

674 Camellia	880 Cobia
677 Camellia	890 Cobia
679 Camellia	892 Cobia
686 Camellia	900 Barracuda
690 Camellia	906 Barracuda
698 Abelia	911 Barracuda
700 Bluebell	912 Barracuda
704 Bluebell	917 Barracuda
705 Bluebell	919 Barracuda
708 Bluebell	928 Albacore
710 Bluebell	1024 Foxglove
711 Bluebell	1028 Foxglove
714 Bluebell	1029 Foxglove
715 Bluebell	1038 Iris
726 Bluebell	1049 Gardenia
728 Bluebell	1079 Heather
731 Bluebell	1103 Iris
734 Bluebell	1122 Iris
759 Althea	1136 Iris
761 Althea	1173 Bobwhite
773 Althea	1200 Cardinal
778 Laurel Bay	1221 Cardinal
807 Azalea	1238 Dove
814 Azalea	1241 Dove
815 Azalea	1242 Dove
818 Azalea	1248 Dove
820 Azalea	1262 Dove
821 Azalea	1265 Dove
831 Azalea	1267 Dove
832 Azalea	1289 Eagle
834 Azalea	1298 Eagle
835 Azalea	1300 Eagle
841 Azalea	1303 Eagle
853 Dolphin	1304 Eagle
858 Dolphin	1315 Albatross
869 Cobia	1316 Albatross
874 Cobia	1320 Albatross
875 Cobia	1338 Albatross

Laurel Bay Underground Storage Tank Assessment Reports for: (143 addresses/146 tanks) cont.

1340 Albatross			
1342 Albatross			
1344 Cardinal			
1345 Cardinal		*	
1349 Cardinal			
1355 Cardinal			
1366 Cardinal			
1374 Dove	}		
1375 Dove			
1415 Albatross			