SUMMARY REPORT

511 WEST LAUREL BAY BOULEVARD (FORMERLY 508 WEST LAUREL BAY BOULEVARD)

LAUREL BAY MILITARY HOUSING AREA

MARINE CORPS AIR STATION BEAUFORT

BEAUFORT, SC

Revision: 0 Prepared for:

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

and



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

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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 511 West Laurel Bay Boulevard (Formerly 508 West Laurel Bay Boulevard). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

1.1 Background Information

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



is bordered on the west by salt marshes and the Broad River, and to the north, east and south by uplands. Forested areas lie along the northern and northeastern borders.

Capehart style homes within the LBMH area were formerly heated using heating oil stored in USTs at each residence. There were 1,100 Capehart style housing units in the LBMH area. The newer duplex homes within the LBMH area never utilized heating oil tanks. Heating oil has not been used at Laurel Bay since the mid-1980s. As was the accepted practice at the time, USTs were drained, filled with dirt, capped, and left in place when they were removed from service. Residential USTs are not regulated in the State of South Carolina (i.e., there are no federal or state laws governing installation, management, or removal).

In 2007, MCAS Beaufort began a voluntary program to remove the unregulated, residential USTs and conduct sampling activities to determine if, and to what extent, petroleum constituents may have impacted the surrounding environment. MCAS Beaufort coordinated with SCDHEC to develop removal procedures that were consistent with procedural requirements for regulated USTs. All tank removal activities and follow-on actions are conducted in coordination with SCDHEC. To date, all known USTs have been removed from all residential properties within the LBMH area.

1.2 UST Removal and Assessment Process

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

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

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



Division (SCDHEC, 2016), the soil screening levels consists of SCDHEC risk-based screening levels (RBSLs). It should be noted that the RBSLs for select PAHs were revised in Revision 2.0 of the QAPP (SCDHEC, 2013) and were revised again in Revision 3.0 (SCDHEC, 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 511 West Laurel Bay Boulevard (Formerly 508 West Laurel Bay Boulevard). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 508 West Laurel Bay Boulevard* (MCAS Beaufort, 2013). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On October 1, 2012, a single 280 gallon heating oil UST was removed from the rear patio area at 511 West Laurel Bay Boulevard (Formerly 508 West 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 6'2" 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 511 West Laurel Bay Boulevard (Formerly 508 West Laurel Bay Boulevard) 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 511 West Laurel Bay Boulevard (Formerly 508 West 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 – 508 West Laurel Bay Boulevard, Laurel Bay Military Housing Area, February 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

511 West Laurel Bay Boulevard (Formerly 508 West Laurel Bay Boulevard)

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

Constituent	SCDHEC RBSLs (1)	Results Sample Collected 10/01/12					
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)							
Benzene	0.003	ND					
Ethylbenzene	1.15	ND					
Naphthalene	0.036	0.00217					
Toluene	0.627	ND					
Xylenes, Total	13.01	ND					
Semivolatile Organic Compounds Ana	llyzed by EPA Method 8270D (mg/kg)						
Benzo(a)anthracene	0.66	ND					
Benzo(b)fluoranthene	0.66	ND					
Benzo(k)fluoranthene	0.66	ND					
Chrysene	0.66	ND					
Dibenz(a,h)anthracene	0.66	ND					

Notes:

(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).

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

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)

	ommanding Officer Attn: NF	REAO (Craig Ehde)					
Owner Name (Corporation, Individual, Public Agency, Other)							
P.O. Box 55001 Mailing Address	P.O. Box 55001						
Beaufort,	South Carolina	29904-5001					
City	State	Zip Code					
843	228-7317	Craig Ehde					
Area Code	Telephone Number	Contact Person					
	-						

II. SITE IDENTIFICATION AND LOCATION

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

Attachment 2

III. INSURANCE INFORMATION

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

508
LaurelBB
Heating oil
280 gal
200 ga1
Late 1950s
Steel
Mid 1980s
6'2"
No
No
Removed
10/1/2012
Yes
Yes
n the ground (attach disposal manifests) om the ground and disposed at a
achment "A".
_

VII. PIPING INFORMATION

	508 LaurelBB
	Steel
Construction Material(ex. Steel, FRP)	& Copper
Distance from UST to Dispenser	N/A
Number of Dispensers	N/A
Type of System Pressure or Suction	Suction
Was Piping Removed from the Ground? Y/N	No
Visible Corrosion or Pitting Y/N	Yes
Visible Holes Y/N	No
Age	Late 1950s
If any corrosion, pitting, or holes were observed,	describe the location and extent for each piping ru
	d the 5 +1 + 2
pipe. Copper supply and return	d on the surface of the steel vent
pipe: copper suppiy and recuin	Times were sound.
VIII. BRIEF SITE DESCI	RIPTION AND HISTORY
	constructed of single wall steel
The USTs at the residences are o	conduct document of the state o
and formerly contained fuel oil	
	for heating. These USTs were
and formerly contained fuel oil	for heating. These USTs were
and formerly contained fuel oil	for heating. These USTs were
and formerly contained fuel oil	for heating. These USTs were
and formerly contained fuel oil	for heating. These USTs were
and formerly contained fuel oil	for heating. These USTs were

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.		Х	: : :
 B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells? If yes, indicate location on site map and describe the odor (strong, mild, etc.) 		Х	
C. Was water present in the UST excavation, soil borings, or trenches? If yes, how far below land surface (indicate location and depth)?		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:		X	
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#
508 LaurelBB	Excav at fill end	Soil	Sandy	6'2"	10/1/12 1500 hrs	P. Shaw	
			-				
8							
9							
10							
11						1	
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

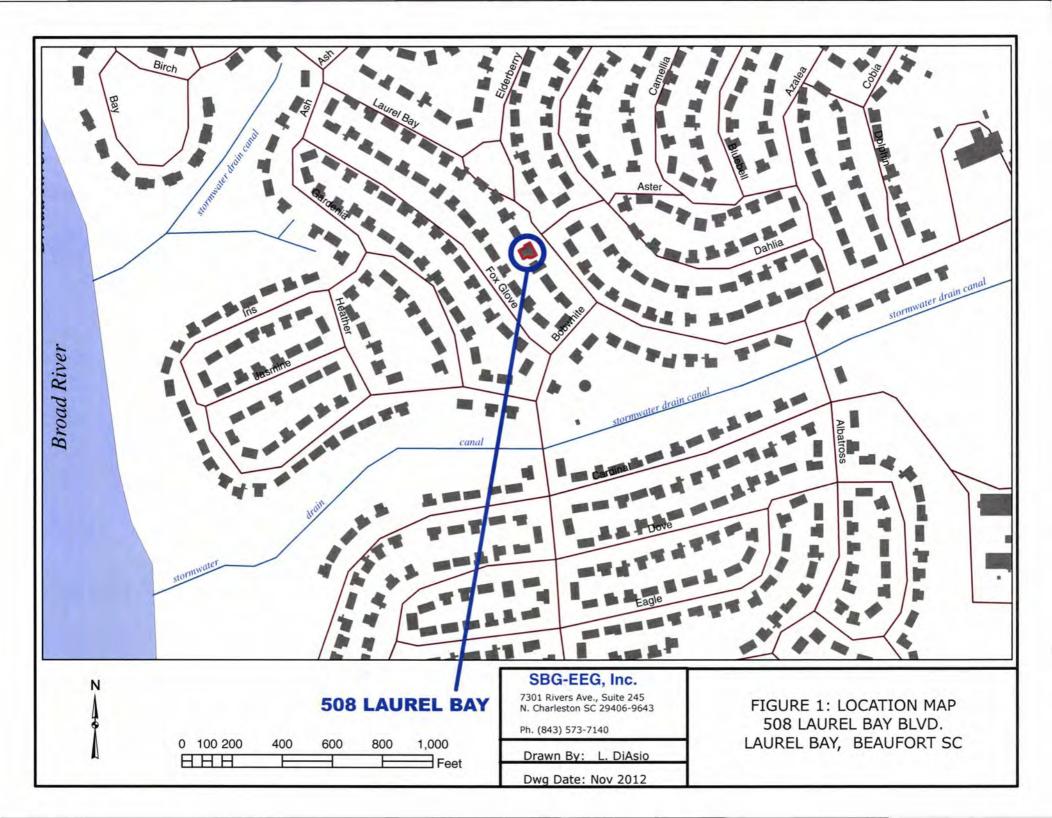
Yes No

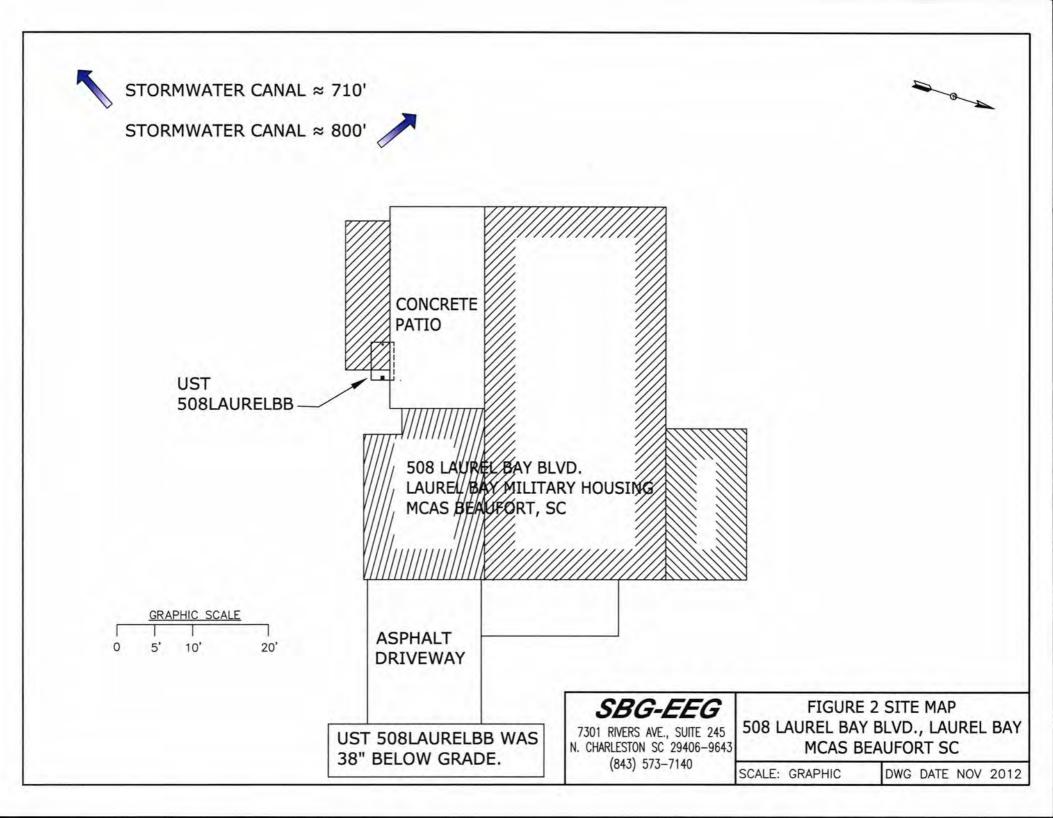
		103	110
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?	*X	
	*Two stormwater drainag	e can	als
	If yes, indicate type of receptor, distance, and direction on site map.		
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		X
	If yes, indicate type of well, distance, and direction on site map.		
C.	Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?		X
	If yes, indicate type of structure, distance, and direction on site map.		
D.	Are there any underground utilities (e.g., telephone, electricity, gas, 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	*X icity	
	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.		

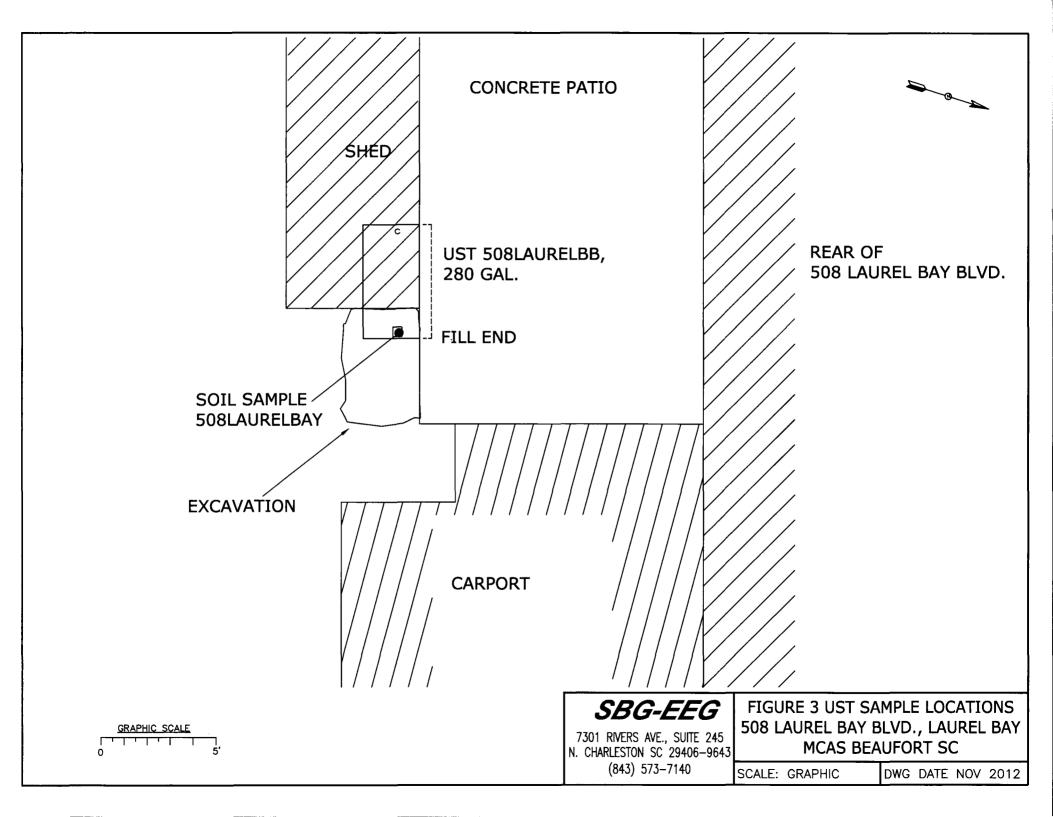
XIII. SITE MAP

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 508LaurelBB.



Picture 2: UST 508LaurelBB 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.

					 81 8
CoC UST	508LaurelBB				
Benzene	ND		1.00		
Toluene	ND				
Ethylbenzene	ND				
Xylenes	ND	•	-		
Naphthalene	0.00217 mg/kg	3			
Benzo (a) anthracene	ND				
Benzo (b) fluoranthene	ND				
Benzo (k) fluoranthene	ND				
Chrysene	ND				
Dibenz (a, h) anthracene	ND	_			
TPH (EPA 3550)					
СоС					
Benzene					
Toluene					
Ethylbenzene					
Xylenes			1		
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.

СоС	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)



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: 490-8693-1

Client Project/Site: Laurel Bay Housing Project

For:

Environmental Enterprise Group 10179 Highway 78 Ladson, South Carolina 29456

Attn: Mr. Tom McElwee

Kuth Hay

Authorized for release by: 10/22/2012 6:17:54 PM

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.

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Sample Summary

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

TestAmerica Job ID: 490-8693-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-8693-1	508 Laurel Bay	Solid	10/01/12 15:00	10/09/12 08:00
490-8693-2	704 Bluebell	Solid	10/02/12 11:45	10/09/12 08:00
490-8693-3	853 Dolphin	Solid	10/03/12 12:00	10/09/12 08:00
490-8693-4	1351 Cardinal	Solid	10/04/12 14:15	10/09/12 08:00

Case Narrative

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-8693-1

Job ID: 490-8693-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-8693-1

Comments

No additional comments.

Receipt

The samples were received on 10/9/2012 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

GC/MS VOA

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 27218.

Method(s) 8260B: The method blank for batch 27218 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other analytical or quality issues were noted.

GC/MS Semi VOA

No analytical or quality issues were noted.

Organic Prep

Method(s) Moisture: The sample duplicate precision for the following sample associated with batch 26781 was outside control limits: (500-51048-1 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

No other analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

Definitions/Glossary

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

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 490-8693-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
В	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	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

TEF

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
Ċ.	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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
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
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points

Client Sample Results

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-8693-1

Client Sample ID: 508 Laurel Bay

Date Collected: 10/01/12 15:00 Date Received: 10/09/12 08:00 Lab Sample ID: 490-8693-1

Matrix: Solid Percent Solids: 89.2

ate Neceived. 10/03/12 00:00								reiteilt son	us. 05.2
Method: 8260B - Volatile Orga	nic Compounds	(GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00221	0.000741	mg/Kg	٥	10/09/12 16:36	10/11/12 16:19	1
Ethylbenzene	ND		0.00221	0.000741	mg/Kg	0	10/09/12 16:36	10/11/12 16:19	1
Naphthalene	0.00217	JB	0.00553	0.00188	mg/Kg	0	10/09/12 16:36	10/11/12 16:19	1
Toluene	ND		0.00221	0.000819	mg/Kg	*	10/09/12 16:36	10/11/12 16:19	1
Xylenes, Total	ND		0.00553	0.000741	mg/Kg	*	10/09/12 16:36	10/11/12 16:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130				10/09/12 16:36	10/11/12 16:19	1
4-Bromofluorobenzene (Surr)	111		70 - 130				10/09/12 16:36	10/11/12 16:19	1
Dibromofluoromethane (Surr)	102		70 - 130				10/09/12 16:36	10/11/12 16:19	1
Toluene-d8 (Surr)	108		70 - 130				10/09/12 16:36	10/11/12 16:19	1
Method: 8270D - Semivolatile	Organic Compou	inds (GC/MS	S)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0662	0.00988	mg/Kg	0	10/12/12 13:26	10/15/12 17:51	1
Acenaphthylene	ND		0.0662	0.00889	mg/Kg	**	10/12/12 13:26	10/15/12 17:51	1
Anthracene	ND		0.0662	0.00889	mg/Kg	*	10/12/12 13:26	10/15/12 17:51	1
Benzo[a]anthracene	ND		0.0662	0.0148	mg/Kg	0	10/12/12 13:26	10/15/12 17:51	1
Benzo[a]pyrene	ND		0.0662	0.0119	mg/Kg	.0	10/12/12 13:26	10/15/12 17:51	1
Benzo[b]fluoranthene	ND		0.0662	0.0119	mg/Kg	25	10/12/12 13:26	10/15/12 17:51	1
Benzo[g,h,i]perylene	ND		0.0662	0.00889	mg/Kg	30	10/12/12 13:26	10/15/12 17:51	1
Benzo[k]fluoranthene	ND		0.0662	0.0138	mg/Kg	10	10/12/12 13:26	10/15/12 17:51	1
Pyrene	ND		0.0662	0.0119	mg/Kg	ø	10/12/12 13:26	10/15/12 17:51	1
Phenanthrene	ND		0.0662	0.00889	mg/Kg	0	10/12/12 13:26	10/15/12 17:51	1
Chrysene	ND		0.0662	0.00889	mg/Kg	0	10/12/12 13:26	10/15/12 17:51	1
Dibenz(a,h)anthracene	ND		0.0662	0.00692	mg/Kg	0	10/12/12 13:26	10/15/12 17:51	1
Fluoranthene	ND		0.0662	0.00889	mg/Kg	0	10/12/12 13:26	10/15/12 17:51	1
Fluorene	ND		0.0662	0.0119	mg/Kg	*	10/12/12 13:26	10/15/12 17:51	1
ndeno[1,2,3-cd]pyrene	ND		0.0662	0.00988	mg/Kg	辛	10/12/12 13:26	10/15/12 17:51	1
Naphthalene	ND		0.0662	0.00889	mg/Kg	0	10/12/12 13:26	10/15/12 17:51	1
2-Methylnaphthalene	ND		0.0662	0.0158	mg/Kg	0	10/12/12 13:26	10/15/12 17:51	1
1-Methylnaphthalene	ND		0.0662	0.0138	mg/Kg	0	10/12/12 13:26	10/15/12 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	53		29 - 120				10/12/12 13:26	10/15/12 17:51	1
Terphenyl-d14 (Surr)	79		13 - 120				10/12/12 13:26	10/15/12 17:51	1
Nitrobenzene-d5 (Surr)	54		27 - 120				10/12/12 13:26	10/15/12 17:51	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL		D	Prepared	Analyzed	Dil Fac
Percent Solids	89		0.10	0.10	%			10/09/12 15:35	1

Client Sample Results

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-8693-1

Client Sample ID: 704 Bluebell

Date Collected: 10/02/12 11:45 Date Received: 10/09/12 08:00 Lab Sample ID: 490-8693-2

Matrix: Solid

Percent Solids: 95.3

Date Received: 10/09/12 06:00								Percent Son	us. 95.5
Method: 8260B - Volatile Organ	nic Compounds	(GC/MS)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00219	0.000735	mg/Kg	ø	10/09/12 16:36	10/11/12 16:46	1
Ethylbenzene	ND		0.00219	0.000735	mg/Kg	Ø.	10/09/12 16:36	10/11/12 16:46	1
Naphthalene	ND		0.00549	0.00187	mg/Kg	Ø	10/09/12 16:36	10/11/12 16:46	1
Toluene	ND		0.00219	0.000812	mg/Kg	*	10/09/12 16:36	10/11/12 16:46	1
Xylenes, Total	ND		0.00549	0.000735	mg/Kg	0	10/09/12 16:36	10/11/12 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130				10/09/12 16:36	10/11/12 16:46	1
4-Bromofluorobenzene (Surr)	113		70 - 130				10/09/12 16:36	10/11/12 16:46	.1
Dibromofluoromethane (Surr)	102		70 - 130				10/09/12 16:36	10/11/12 16:46	1
Toluene-d8 (Surr)	107		70 - 130				10/09/12 16:36	10/11/12 16:46	1
Method: 8270D - Semivolatile	Organic Compou	inds (GC/MS	3)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0661	0.00987	mg/Kg	**	10/12/12 13:26	10/15/12 18:12	1
Acenaphthylene	ND		0.0661	0.00888	mg/Kg	*	10/12/12 13:26	10/15/12 18:12	1
Anthracene	0.0244	J	0.0661	0.00888	mg/Kg	*	10/12/12 13:26	10/15/12 18:12	1
Benzo[a]anthracene	0.132		0.0661	0.0148	mg/Kg	Ø	10/12/12 13:26	10/15/12 18:12	1
Benzo[a]pyrene	ND		0.0661	0.0118	mg/Kg	Ø	10/12/12 13:26	10/15/12 18:12	1
Benzo[b]fluoranthene	ND		0.0661	0.0118	mg/Kg	0	10/12/12 13:26	10/15/12 18:12	1
Benzo[g,h,i]perylene	ND		0.0661	0.00888	mg/Kg	0	10/12/12 13:26	10/15/12 18:12	1
Benzo[k]fluoranthene	ND		0.0661	0.0138	mg/Kg	302	10/12/12 13:26	10/15/12 18:12	1
Pyrene	0.372		0.0661	0.0118	mg/Kg	♦	10/12/12 13:26	10/15/12 18:12	1
Phenanthrene	0.0649	J	0.0661	0.00888	mg/Kg	*	10/12/12 13:26	10/15/12 18:12	1
Chrysene	0.0702		0.0661	0.00888	mg/Kg	0	10/12/12 13:26	10/15/12 18:12	1
Dibenz(a,h)anthracene	ND		0.0661	0.00691	mg/Kg	325	10/12/12 13:26	10/15/12 18:12	1
Fluoranthene	0.448		0.0661	0.00888	mg/Kg	0	10/12/12 13:26	10/15/12 18:12	1
Fluorene	ND		0.0661	0.0118	mg/Kg	0	10/12/12 13:26	10/15/12 18:12	1
Indeno[1,2,3-cd]pyrene	ND		0.0661	0.00987	mg/Kg	-	10/12/12 13:26	10/15/12 18:12	1
Naphthalene	ND		0.0661	0.00888	mg/Kg	100	10/12/12 13:26	10/15/12 18:12	1
2-Methylnaphthalene	ND		0.0661	0.0158	mg/Kg	**	10/12/12 13:26	10/15/12 18:12	1
1-Methylnaphthalene	ND		0.0661	0.0138	mg/Kg	***	10/12/12 13:26	10/15/12 18:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	58		29 - 120				10/12/12 13:26	10/15/12 18:12	1
Terphenyl-d14 (Surr)	77		13 - 120				10/12/12 13:26	10/15/12 18:12	1
Nitrobenzene-d5 (Surr)	56		27 - 120				10/12/12 13:26	10/15/12 18:12	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL		D	Prepared	Analyzed	Dil Fac
Percent Solids	95		0.10	0.10	%			10/09/12 15:35	1

Client Sample Results

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-8693-1

Client Sample ID: 853 Dolphin

Date Collected: 10/03/12 12:00 Date Received: 10/09/12 08:00 Lab Sample ID: 490-8693-3

Matrix: Solid Percent Solids: 91.1

Analyte	Result	GC/MS) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	Section 1	0.00238	0.000797	mg/Kg	400	10/09/12 16:36	10/11/12 17:13	
Ethylbenzene	ND		0.00238	0.000797		40	10/09/12 16:36	10/11/12 17:13	1
Naphthalene	ND		0.00595	0.00202	mg/Kg	**	10/09/12 16:36	10/11/12 17:13	
Toluene	ND		0.00238	0.000881	mg/Kg	*	10/09/12 16:36	10/11/12 17:13	1
Xylenes, Total	ND		0.00595	0.000797		0	10/09/12 16:36	10/11/12 17:13	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130				10/09/12 16:36	10/11/12 17:13	-
4-Bromofluorobenzene (Surr)	110		70 - 130				10/09/12 16:36	10/11/12 17:13	1
Dibromofluoromethane (Surr)	103		70 - 130				10/09/12 16:36	10/11/12 17:13	
Toluene-d8 (Surr)	109		70 - 130				10/09/12 16:36	10/11/12 17:13	1
Method: 8270D - Semivolatile (Organic Compou	nds (GC/MS	5)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0650	0.00970	mg/Kg	0	10/12/12 13:26	10/15/12 18:33	1
Acenaphthylene	ND		0.0650	0.00873	mg/Kg	*	10/12/12 13:26	10/15/12 18:33	-
Anthracene	ND		0.0650	0.00873	mg/Kg	**	10/12/12 13:26	10/15/12 18:33	4
Benzo[a]anthracene	ND		0.0650	0.0146	mg/Kg	-00	10/12/12 13:26	10/15/12 18:33	3
Benzo[a]pyrene	ND		0.0650	0.0116	mg/Kg	¢.	10/12/12 13:26	10/15/12 18:33	-
Benzo[b]fluoranthene	ND		0.0650	0.0116	mg/Kg	ф	10/12/12 13:26	10/15/12 18:33	1
Benzo[g,h,i]perylene	ND		0.0650	0.00873	mg/Kg	亞	10/12/12 13:26	10/15/12 18:33	1
Benzo[k]fluoranthene	ND		0.0650	0.0136	mg/Kg	-03	10/12/12 13:26	10/15/12 18:33	11
Pyrene	ND		0.0650	0.0116	mg/Kg	ø	10/12/12 13:26	10/15/12 18:33	1
Phenanthrene	ND		0.0650	0.00873	mg/Kg	袋	10/12/12 13:26	10/15/12 18:33	19
Chrysene	ND		0.0650	0.00873	mg/Kg	\$2	10/12/12 13:26	10/15/12 18:33	4
Dibenz(a,h)anthracene	ND		0.0650	0.00679	mg/Kg	*	10/12/12 13:26	10/15/12 18:33	1
Fluoranthene	ND		0.0650	0.00873	mg/Kg	Ø	10/12/12 13:26	10/15/12 18:33	
Fluorene	ND		0.0650	0.0116	mg/Kg	-05	10/12/12 13:26	10/15/12 18:33	1
Indeno[1,2,3-cd]pyrene	ND		0.0650	0.00970	mg/Kg	**	10/12/12 13:26	10/15/12 18:33	1
Naphthalene	ND		0.0650	0.00873	mg/Kg	139	10/12/12 13:26	10/15/12 18:33	1
2-Methylnaphthalene	ND		0.0650	0.0155	mg/Kg	0	10/12/12 13:26	10/15/12 18:33	1
1-Methylnaphthalene	ND		0.0650	0.0136		D	10/12/12 13:26	10/15/12 18:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	45		29 - 120				10/12/12 13:26	10/15/12 18:33	1
Terphenyl-d14 (Surr)	67		13 - 120				10/12/12 13:26	10/15/12 18:33	1
Nitrobenzene-d5 (Surr)	43		27 - 120				10/12/12 13:26	10/15/12 18:33	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample Results

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

TestAmerica Job ID: 490-8693-1

Client Sample ID: 1351 Cardinal

Date Collected: 10/04/12 14:15 Date Received: 10/09/12 08:00 Lab Sample ID: 490-8693-4

Matrix: Solid

Percent Solids: 82.0

ate Neceived. 10/05/12 00:00								i ci cent don	us. 02.0
Method: 8260B - Volatile Orga	nic Compounds	(GC/MS)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	0.0311		0.00226	0.000756	mg/Kg	0	10/09/12 16:36	10/11/12 17:40	
Ethylbenzene	0.00919		0.00226	0.000756	mg/Kg	0	10/09/12 16:36	10/11/12 17:40	-
Naphthalene	0.0181	В	0.00564	0.00192	mg/Kg	0	10/09/12 16:36	10/11/12 17:40	
Toluene	0.0529		0.00226	0.000835	mg/Kg	Ø.	10/09/12 16:36	10/11/12 17:40	
Xylenes, Total	0.0540		0.00564	0.000756	mg/Kg	\$	10/09/12 16:36	10/11/12 17:40	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	93		70 - 130				10/09/12 16:36	10/11/12 17:40	
1-Bromofluorobenzene (Surr)	109		70 - 130				10/09/12 16:36	10/11/12 17:40	
Dibromofluoromethane (Surr)	103		70 - 130				10/09/12 16:36	10/11/12 17:40	
Toluene-d8 (Surr)	108		70 - 130				10/09/12 16:36	10/11/12 17:40	9
Method: 8270D - Semivolatile	the state of the s	The second second							
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0654	0.00976		*	10/12/12 13:26	10/15/12 18:53	1
Acenaphthylene	ND		0.0654	0.00878		\$	10/12/12 13:26	10/15/12 18:53	9
Anthracene	ND		0.0654	0.00878		*	10/12/12 13:26	10/15/12 18:53	
Benzo[a]anthracene	ND		0.0654	0.0146		0	10/12/12 13:26	10/15/12 18:53	
Benzo[a]pyrene	ND		0.0654	0.0117		*	10/12/12 13:26	10/15/12 18:53	9
Benzo[b]fluoranthene	ND		0.0654	0.0117	mg/Kg	0	10/12/12 13:26	10/15/12 18:53	
Benzo[g,h,i]perylene	ND		0.0654	0.00878	mg/Kg	*	10/12/12 13:26	10/15/12 18:53	4
Benzo[k]fluoranthene	ND		0.0654	0.0137	mg/Kg	**	10/12/12 13:26	10/15/12 18:53	
Pyrene	ND		0.0654	0.0117	mg/Kg	**	10/12/12 13:26	10/15/12 18:53	
Phenanthrene	ND		0.0654	0.00878	mg/Kg	*	10/12/12 13:26	10/15/12 18:53	13
Chrysene	ND		0.0654	0.00878	mg/Kg	0	10/12/12 13:26	10/15/12 18:53	
Dibenz(a,h)anthracene	ND		0.0654	0.00683	mg/Kg	0	10/12/12 13:26	10/15/12 18:53	
Fluoranthene	ND		0.0654	0.00878	mg/Kg	•	10/12/12 13:26	10/15/12 18:53	1
Fluorene	ND		0.0654	0.0117	mg/Kg	0	10/12/12 13:26	10/15/12 18:53	
ndeno[1,2,3-cd]pyrene	ND		0.0654	0.00976	mg/Kg	0	10/12/12 13:26	10/15/12 18:53	17
Naphthalene	ND		0.0654	0.00878	mg/Kg	*	10/12/12 13:26	10/15/12 18:53	- 3
2-Methylnaphthalene	ND		0.0654	0.0156	mg/Kg	**	10/12/12 13:26	10/15/12 18:53	17
1-Methylnaphthalene	ND		0.0654	0.0137	mg/Kg	101	10/12/12 13:26	10/15/12 18:53	19
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
2-Fluorobiphenyl (Surr)	61		29 - 120				10/12/12 13:26	10/15/12 18:53	- 11
Terphenyl-d14 (Surr)	72		13 - 120				10/12/12 13:26	10/15/12 18:53	100
Nitrobenzene-d5 (Surr)	63		27 - 120				10/12/12 13:26	10/15/12 18:53	10
General Chemistry									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82		0.10	0.10	%			10/09/12 15:35	

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-8693-1

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

Lab Sample ID: MB 490-27218/6

Matrix: Solid

Analysis Batch: 27218

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			10/11/12 08:55	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			10/11/12 08:55	1
Naphthalene	0.002298	J	0.00500	0.00170	mg/Kg			10/11/12 08:55	1
Toluene	ND		0.00200	0.000740	mg/Kg			10/11/12 08:55	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			10/11/12 08:55	1

MB MB %Recovery Qualifier Limits Surrogate Dil Fac Prepared Analyzed 70 - 130 1,2-Dichloroethane-d4 (Surr) 94 10/11/12 08:55 110 70 - 130 4-Bromofluorobenzene (Surr) 10/11/12 08:55 Dibromofluoromethane (Surr) 102 70 - 130 10/11/12 08:55 Toluene-d8 (Surr) 109 70 - 130 10/11/12 08:55

Lab Sample ID: LCS 490-27218/3

Matrix: Solid

Analysis Batch: 27218

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Contract And Contraction	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.0500	0.04811		mg/Kg		96	75 - 127
Ethylbenzene	0.0500	0.04986		mg/Kg		100	80 - 134
Naphthalene	0.0500	0.05048		mg/Kg		101	69 - 150
Toluene	0.0500	0.05028		mg/Kg		101	80 - 132
Xylenes, Total	0.150	0.1537		mg/Kg		102	80 - 137

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	112		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	107		70 - 130

Lab Sample ID: LCSD 490-27218/4

Matrix: Solid

Analysis Batch: 27218

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.04930		mg/Kg		99	75 - 127	2	50
Ethylbenzene	0.0500	0.05083		mg/Kg		102	80 - 134	2	50
Naphthalene	0.0500	0.04942		mg/Kg		99	69 - 150	2	50
Toluene	0.0500	0.05153		mg/Kg		103	80 - 132	2	50
Xylenes, Total	0.150	0.1549		mg/Kg		103	80 - 137	1	50

LCSD	LCS
%Recovery	Qual

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	110		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	109		70 - 130

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-8693-1

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

Lab Sample ID: MB 490-27734/1-A

Matrix: Solid

Analysis Batch: 28036

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 27734

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Anthracene	ND		0.0670	0.00900	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Pyrene	ND		0.0670	0.0120	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Chrysene	ND		0.0670	0.00900	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Fluorene	ND		0.0670	0.0120	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		10/12/12 13:26	10/15/12 11:19	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	72	29 - 120	10/12/12 13:26	10/15/12 11:19	1
Terphenyl-d14 (Surr)	95	13 - 120	10/12/12 13:26	10/15/12 11:19	1
Nitrobenzene-d5 (Surr)	69	27 - 120	10/12/12 13:26	10/15/12 11:19	1

Lab Sample ID: LCS 490-27734/2-A

Matrix: Solid

Analysis Batch: 28036

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27734

Analysis Batch: 28036							Prep B
The state of the s	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.67	1.355		mg/Kg		81	38 - 120
Anthracene	1.67	1.373		mg/Kg		82	46 - 124
Benzo[a]anthracene	1.67	1.417		mg/Kg		85	45 - 120
Benzo[a]pyrene	1.67	1.493		mg/Kg		90	45 - 120
Benzo[b]fluoranthene	1.67	1.419		mg/Kg		85	42 - 120
Benzo[g,h,i]perylene	1.67	1.383		mg/Kg		83	38 - 120
Benzo[k]fluoranthene	1.67	1.581		mg/Kg		95	42 - 120
Pyrene	1.67	1.455		mg/Kg		87	43 - 120
Phenanthrene	1.67	1.378		mg/Kg		83	45 - 120
Chrysene	1.67	1.380		mg/Kg		83	43 - 120
Dibenz(a,h)anthracene	1.67	1.264		mg/Kg		76	32 - 128
Fluoranthene	1.67	1.386		mg/Kg		83	46 - 120
Fluorene	1.67	1.458		mg/Kg		87	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.385		mg/Kg		83	41 - 121
Naphthalene	1.67	1.372		mg/Kg		82	32 - 120
2-Methylnaphthalene	1.67	1.281		mg/Kg		77	28 - 120
1-Methylnaphthalene	1.67	1.239		mg/Kg		74	32 - 120
	00 100						

LCS LCS

 Surrogate
 %Recovery
 Qualifier
 Limits

 2-Fluorobiphenyl (Surr)
 58
 29 - 120

TestAmerica Nashville 10/22/2012

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-8693-1

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

Lab Sample ID: LCS 490-27734/2-A

Matrix: Solid

Analysis Batch: 28036

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27734

LUS	LUS
%Recovery	Qualifi

Surrogate	%Recovery Qualifier	Limits
Terphenyl-d14 (Surr)	75	13 - 120
Nitrobenzene-d5 (Surr)	56	27 - 120

Lab Sample ID: LCSD 490-27734/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 28036

Prep Type: Total/NA

Prep Batch: 27734

Spike Added		LCSD				%Rec.		RPD
Added	Popult							
	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1.67	1.501		mg/Kg		90	38 - 120	10	50
1.67	1.470		mg/Kg		88	46 - 124	7	49
1.67	1.504		mg/Kg		90	45 - 120	6	50
1.67	1.582		mg/Kg		95	45 - 120	6	50
1.67	1.454		mg/Kg		87	42 - 120	2	50
1.67	1.462		mg/Kg		88	38 - 120	6	50
1.67	1.628		mg/Kg		98	42 - 120	3	45
1.67	1.550		mg/Kg		93	43 - 120	6	50
1.67	1.479		mg/Kg		89	45 - 120	7	.50
1.67	1.489		mg/Kg		89	43 - 120	8	49
1.67	1.321		mg/Kg		79	32 - 128	4	50
1.67	1.471		mg/Kg		88	46 - 120	6	50
1.67	1.543		mg/Kg		93	42 - 120	6	50
1.67	1.438		mg/Kg		86	41 - 121	4	50
1.67	1.521		mg/Kg		91	32 - 120	10	50
1.67	1.421		mg/Kg		85	28 - 120	10	50
1.67	1.359		mg/Kg		82	32 - 120	9	50
	1.67 1.67 1.67 1.67 1.67 1.67 1.67 1.67	1.67 1.470 1.67 1.504 1.67 1.582 1.67 1.454 1.67 1.462 1.67 1.550 1.67 1.479 1.67 1.489 1.67 1.321 1.67 1.471 1.67 1.438 1.67 1.438 1.67 1.521 1.67 1.438	1.67	1.67 1.470 mg/Kg 1.67 1.504 mg/Kg 1.67 1.582 mg/Kg 1.67 1.454 mg/Kg 1.67 1.462 mg/Kg 1.67 1.462 mg/Kg 1.67 1.550 mg/Kg 1.67 1.550 mg/Kg 1.67 1.479 mg/Kg 1.67 1.489 mg/Kg 1.67 1.321 mg/Kg 1.67 1.471 mg/Kg 1.67 1.543 mg/Kg 1.67 1.438 mg/Kg 1.67 1.438 mg/Kg 1.67 1.438 mg/Kg 1.67 1.521 mg/Kg 1.67 1.521 mg/Kg	1.67 1.470 mg/Kg 1.67 1.504 mg/Kg 1.67 1.582 mg/Kg 1.67 1.454 mg/Kg 1.67 1.462 mg/Kg 1.67 1.628 mg/Kg 1.67 1.550 mg/Kg 1.67 1.479 mg/Kg 1.67 1.489 mg/Kg 1.67 1.321 mg/Kg 1.67 1.543 mg/Kg 1.67 1.543 mg/Kg 1.67 1.438 mg/Kg 1.67 1.521 mg/Kg 1.67 1.421 mg/Kg	1.67 1.470 mg/Kg 88 1.67 1.504 mg/Kg 90 1.67 1.582 mg/Kg 95 1.67 1.454 mg/Kg 87 1.67 1.462 mg/Kg 88 1.67 1.628 mg/Kg 98 1.67 1.550 mg/Kg 93 1.67 1.479 mg/Kg 89 1.67 1.489 mg/Kg 89 1.67 1.321 mg/Kg 79 1.67 1.471 mg/Kg 88 1.67 1.543 mg/Kg 93 1.67 1.438 mg/Kg 86 1.67 1.521 mg/Kg 91 1.67 1.421 mg/Kg 85	1.67 1.470 mg/Kg 88 46 - 124 1.67 1.504 mg/Kg 90 45 - 120 1.67 1.582 mg/Kg 95 45 - 120 1.67 1.454 mg/Kg 87 42 - 120 1.67 1.462 mg/Kg 88 38 - 120 1.67 1.628 mg/Kg 98 42 - 120 1.67 1.550 mg/Kg 93 43 - 120 1.67 1.479 mg/Kg 89 45 - 120 1.67 1.489 mg/Kg 89 43 - 120 1.67 1.321 mg/Kg 79 32 - 128 1.67 1.471 mg/Kg 88 46 - 120 1.67 1.543 mg/Kg 93 42 - 120 1.67 1.543 mg/Kg 93 42 - 120 1.67 1.543 mg/Kg 86 41 - 121 1.67 1.521 mg/Kg 91 32 - 120 1.67 1.421 mg/Kg 85 28 - 120	1.67 1.470 mg/Kg 88 46 - 124 7 1.67 1.504 mg/Kg 90 45 - 120 6 1.67 1.582 mg/Kg 95 45 - 120 6 1.67 1.454 mg/Kg 87 42 - 120 2 1.67 1.462 mg/Kg 88 38 - 120 6 1.67 1.628 mg/Kg 98 42 - 120 3 1.67 1.550 mg/Kg 93 43 - 120 6 1.67 1.479 mg/Kg 89 45 - 120 7 1.67 1.489 mg/Kg 89 43 - 120 8 1.67 1.321 mg/Kg 89 43 - 120 8 1.67 1.471 mg/Kg 79 32 - 128 4 1.67 1.543 mg/Kg 93 42 - 120 6 1.67 1.543 mg/Kg 93 42 - 120 6 1.67 1.438 mg/Kg 86 41 - 121 4 1.67 1.543 mg/Kg

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	64		29 - 120
Terphenyl-d14 (Surr)	80		13 - 120
Nitrobenzene-d5 (Surr)	61		27 - 120

Lab Sample ID: 490-8674-A-8-E MS

Matrix: Solid

Analysis Batch: 28036

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 27734

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	1,74, 50,50	Qualifier	Added	Result		Unit	D	%Rec	Limits
Acenaphthylene	0.0623	J	1.66	1.502		mg/Kg	0	86	25 - 120
Anthracene	0.0907		1.66	1.431		mg/Kg	0	81	28 - 125
Benzo[a]anthracene	0.382		1.66	1.680		mg/Kg	Ø.	78	23 - 120
Benzo[a]pyrene	0.373		1.66	1.860		mg/Kg	O	89	15 - 128
Benzo[b]fluoranthene	0.845		1.66	2.110		mg/Kg	Ö	76	12 - 133
Benzo[g,h,i]perylene	0.205		1.66	1.387		mg/Kg	43	71	22 - 120
Benzo[k]fluoranthene	0.295		1.66	1.790		mg/Kg	42	90	28 - 120
Pyrene	0.641		1.66	1.876		mg/Kg	ø	74	20 - 123
Phenanthrene	0.123		1.66	1.412		mg/Kg	-0	77	21 - 122
Chrysene	0.535		1.66	1.745		mg/Kg	O	73	20 - 120
Dibenz(a,h)anthracene	0.0666		1.66	1.208		mg/Kg	\$	69	12 - 128
Fluoranthene	0.638		1.66	1.899		mg/Kg	0	76	10 - 143
Fluorene	ND		1.66	1.441		mg/Kg	-0	87	20 - 120

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-8693-1

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

Lab Sample ID: 490-8674-A-8-E MS

Lab Sample ID: 490-8674-A-8-F MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 28036

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 27734

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Indeno[1,2,3-cd]pyrene	0.202		1.66	1.380		mg/Kg	0	71	22 - 121
Naphthalene	0.0365	J	1.66	1.531		mg/Kg	Ø	90	10 - 120
2-Methylnaphthalene	0.0410	J	1.66	1.405		mg/Kg	Ò	82	13 - 120
1-Methylnaphthalene	0.0323	J	1.66	1.371		mg/Kg	32	80	10 - 120

MS MS

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	61		29 - 120
Terphenyl-d14 (Surr)	72		13 - 120
Nitrobenzene-d5 (Surr)	63		27 - 120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Watrix: Solid										ype. 10	
Analysis Batch: 28036									4. 7	Batch:	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	0.0623	J	1.63	1.505		mg/Kg	10	89	25 - 120	0	50
Anthracene	0.0907		1.63	1.434		mg/Kg	0	83	28 - 125	0	49
Benzo[a]anthracene	0.382		1.63	1.805		mg/Kg	0	88	23 - 120	7	50
Benzo[a]pyrene	0.373		1.63	2.027		mg/Kg	**	102	15 - 128	9	50
Benzo[b]fluoranthene	0.845		1.63	2.799		mg/Kg	*	120	12 - 133	28	50
Benzo[g,h,i]perylene	0.205		1.63	1.501		mg/Kg	\$	80	22 - 120	8	50
Benzo[k]fluoranthene	0.295		1.63	1.907		mg/Kg	0	99	28 - 120	6	45
Pyrene	0.641		1.63	2.316		mg/Kg	**	103	20 - 123	21	50
Phenanthrene	0.123		1.63	1.374		mg/Kg	0	77	21 - 122	3	50
Chrysene	0.535		1.63	2.075		mg/Kg	0	95	20 - 120	17	49
Dibenz(a,h)anthracene	0.0666		1.63	1.199		mg/Kg	**	70	12 - 128	1	50
Fluoranthene	0.638		1.63	2.282		mg/Kg	*	101	10 - 143	18	50
Fluorene	ND		1.63	1.419		mg/Kg	故	87	20 - 120	2	50
Indeno[1,2,3-cd]pyrene	0.202		1.63	1.508		mg/Kg	夺	80	22 - 121	9	50
Naphthalene	0.0365	J	1.63	1.492		mg/Kg	0	90	10 - 120	3	50
2-Methylnaphthalene	0.0410	J	1.63	1.413		mg/Kg	0	84	13 - 120	1	50
1-Methylnaphthalene	0.0323	J	1.63	1.355		mg/Kg	٥	81	10 - 120	1	50
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
2-Fluorobiphenyl (Surr)	58		29 - 120								

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	58		29 - 120
Terphenyl-d14 (Surr)	65		13 - 120
Nitrobenzene-d5 (Surr)	59		27 - 120

Method: Moisture - Percent Moisture

Lab Sample ID: 500-51048-B-1 DU

Matrix: Solid

Analysis Batch: 26781

		Prep Type: Total/NA
Sample Sample	DU DU	RPD

AnalyteResultQualifierResultQualifierUnitDRPDLimitPercent Solids9492%220

Client Sample ID: Duplicate

QC Association Summary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-8693-1

GC/MS VOA

	Pre	p E	ate	ch:	2	68	22
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8693-1	508 Laurel Bay	Total/NA	Solid	5035	
490-8693-2	704 Bluebell	Total/NA	Solid	5035	
490-8693-3	853 Dolphin	Total/NA	Solid	5035	
490-8693-4	1351 Cardinal	Total/NA	Solid	5035	

Analysis Batch: 27218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8693-1	508 Laurel Bay	Total/NA	Solid	8260B	26822
490-8693-2	704 Bluebell	Total/NA	Solid	8260B	26822
490-8693-3	853 Dolphin	Total/NA	Solid	8260B	26822
490-8693-4	1351 Cardinal	Total/NA	Solid	8260B	26822
LCS 490-27218/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-27218/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-27218/6	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 27734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8674-A-8-E MS	Matrix Spike	Total/NA	Solid	3550C	
490-8674-A-8-F MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
490-8693-1	508 Laurel Bay	Total/NA	Solid	3550C	
490-8693-2	704 Bluebell	Total/NA	Solid	3550C	
490-8693-3	853 Dolphin	Total/NA	Solid	3550C	
490-8693-4	1351 Cardinal	Total/NA	Solid	3550C	
LCS 490-27734/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 490-27734/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
MB 490-27734/1-A	Method Blank	Total/NA	Solid	3550C	
MB 490-27/34/1-A	Method Blank	I otal/NA	Solid	3550C	

Analysis Batch: 28036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8674-A-8-E MS	Matrix Spike	Total/NA	Solid	8270D	27734
490-8674-A-8-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	27734
490-8693-1	508 Laurel Bay	Total/NA	Solid	8270D	27734
490-8693-2	704 Bluebell	Total/NA	Solid	8270D	27734
490-8693-3	853 Dolphin	Total/NA	Solid	8270D	27734
490-8693-4	1351 Cardinal	Total/NA	Solid	8270D	27734
LCS 490-27734/2-A	Lab Control Sample	Total/NA	Solid	8270D	27734
LCSD 490-27734/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	27734
MB 490-27734/1-A	Method Blank	Total/NA	Solid	8270D	27734

General Chemistry

Analysis Batch: 26781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8693-1	508 Laurel Bay	Total/NA	Solid	Moisture	
490-8693-2	704 Bluebell	Total/NA	Solid	Moisture	
490-8693-3	853 Dolphin	Total/NA	Solid	Moisture	
490-8693-4	1351 Cardinal	Total/NA	Solid	Moisture	
500-51048-B-1 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-8693-1

Client Sample ID: 508 Laurel Bay

Date Collected: 10/01/12 15:00 Date Received: 10/09/12 08:00

Lab Sample ID: 490-8693-1

Matrix: Solid

Percent Solids: 89.2

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			26822	10/09/12 16:36	ML	TAL NSH
Total/NA	Analysis	8260B		1	27218	10/11/12 16:19	AF	TAL NSH
Total/NA	Prep	3550C			27734	10/12/12 13:26	AK	TAL NSH
Total/NA	Analysis	8270D		1	28036	10/15/12 17:51	WS	TAL NSH
Total/NA	Analysis	Moisture		1	26781	10/09/12 15:35	RS	TAL NSH

Client Sample ID: 704 Bluebell

Date Collected: 10/02/12 11:45 Date Received: 10/09/12 08:00

Lab Sample ID: 490-8693-2

Matrix: Solid Percent Solids: 95.3

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			26822	10/09/12 16:36	ML	TAL NSH
Total/NA	Analysis	8260B		1	27218	10/11/12 16:46	AF	TAL NSH
Total/NA	Prep	3550C			27734	10/12/12 13:26	AK	TAL NSH
Total/NA	Analysis	8270D		1	28036	10/15/12 18:12	WS	TAL NSH
Total/NA	Analysis	Moisture		1	26781	10/09/12 15:35	RS	TAL NSH

Client Sample ID: 853 Dolphin

Date Collected: 10/03/12 12:00 Date Received: 10/09/12 08:00

Lab Sample ID: 490-8693-3

Matrix: Solid

Percent Solids: 91.1

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			26822	10/09/12 16:36	ML	TAL NSH
Total/NA	Analysis	8260B		1	27218	10/11/12 17:13	AF	TAL NSH
Total/NA	Prep	3550C			27734	10/12/12 13:26	AK	TAL NSH
Total/NA	Analysis	8270D		1	28036	10/15/12 18:33	WS	TAL NSH
Total/NA	Analysis	Moisture		1	26781	10/09/12 15:35	RS	TAL NSH

Client Sample ID: 1351 Cardinal

Date Collected: 10/04/12 14:15

Date Received: 10/09/12 08:00

Lab Sample ID: 490-8693-4

Matrix: Solid

Percent Solids: 82.0

lyst	Lab	
	22.70 7.20	

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			26822	10/09/12 16:36	ML	TAL NSH
Total/NA	Analysis	8260B		1	27218	10/11/12 17:40	AF	TAL NSH
Total/NA	Prep	3550C			27734	10/12/12 13:26	AK	TAL NSH
Total/NA	Analysis	8270D		1	28036	10/15/12 18:53	WS	TAL NSH
Total/NA	Analysis	Moisture		1	26781	10/09/12 15:35	RS	TAL NSH

Laboratory References:

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

Method Summary

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

TestAmerica Job ID: 490-8693-1

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

Certification Summary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-8693-1

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	10-30-12
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Naska (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	NELAC	9	1168CA	10-31-12
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
lorida	NELAC	4	E87358	06-30-13
linois	NELAC	5	200010	12-09-12
owa	State Program	7	131	05-01-14
ansas	NELAC	7	E-10229	10-31-12
entucky	State Program	4	90038	12-31-12
entucky (UST)	State Program	4	19	09-15-13
ouisiana	NELAC	6	LA120025	12-31-12
ouisiana	NELAC	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
finnesota	NELAC	5	047-999-345	12-31-12
fississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
levada	State Program	9	TN00032	07-31-13
lew Hampshire	NELAC	1	2963	10-09-13
lew Jersey	NELAC	2	TN965	06-30-13
lew York	NELAC	2	11342	04-01-13
lorth Carolina DENR	State Program	4	387	12-31-12
lorth 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	NELAC	10	TN200001	04-30-13
Pennsylvania	NELAC	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-12
South Carolina	State Program	4	84009 (001)	02-28-13
South Carolina	State Program	4	84009 (002)	02-23-14
ennessee	State Program	4	2008	02-23-14
exas	NELAC	6	T104704077-09-TX	08-31-13
ISDA	Federal	· ·	S-48469	11-02-13
Itah	NELAC	8	TAN	06-30-13
	NELAC	3	460152	06-14-13
/irginia		10	C789	07-19-13
Vashington	State Program			
Vest Virginia DEP	State Program	3	219	02-28-13
Visconsin	State Program A2LA	5 8	998020430 453.07	08-31-13 12-31-13



COOLER RECEIPT FORM



490-8693 Chain of

Cooler Received/Opened On 10/9/2012 @ 0800	33000
. Tracking # 8757 (last 4 digits, FedEx)	Ŀ
Courler: FEDEX IR Gun ID 97310166	
2. Temperature of rep. sample or temp blank when opened: /Degrees Ce	elsius
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank froze	n? YESNONA
. Were custody seals on outside of cooler?	YES NONA
If yes, how many and where: One from & Back	
5. Were the seals intact, signed, and dated correctly?	VES NONA
6. Were custody papers Inside cooler?	YES .NONA
certify that I opened the cooler and answered questions 1-6 (intial)	
7. Were custody seals on containers: YES NO and Intact	YESNONA
Were these signed and dated correctly?	YESNO. NA
3. Packing mat'l used Fubblewrap Plastic bag Peanuts Vermiculite Foam Insert Pa	per Other None
Cooling process: Ice lce-pack Ice (direct contact) Dry	ice Other None
0. Did all containers arrive in good condition (unbroken)?	ES NONA
1. Were all container labels complete (#, date, signed, pres., etc)?	(YES.)NONA
2. Did all container labels and tags agree with custody papers?	VESNONA
3a. Were VOA vials received?	YES NO NA
b. Was there any observable headspace present in any VOA vial?	YES. NO.NA-
4. Was there a Trip Blank in this cooler? YESNO. NA If multiple coolers, so	equence # NA
certify that I unloaded the cooler and answered questions 7-14 (intial)	<u>&</u>
5a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH leve	el? YESNO.NA
b. Did the bottle labels indicate that the correct preservatives were used	YES NO NA
6. Was residual chlorine present?	YESNO. NA
certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intia	0 5
7. Were custody papers properly filled out (ink, signed, etc)?	YES NONA
8. Did you sign the custody papers in the appropriate place?	YES NONA
9. Were correct containers used for the analysis requested?	ES NONA
20. Was sufficient amount of sample sent in each container?	YES .NONA
certify that I entered this project into LIMS and answered questions 17-20 (intial)	F
certify that I attached a label with the unique LIMS number to each container (intial)	F

Login Sample Receipt Checklist

Client: Environmental Enterprise Group

Job Number: 490-8693-1

Login Number: 8693

List Source: TestAmerica Nashville

List Number: 1 Creator: Ford, Easton

Question	Answer Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td>	True
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").	N/A
Multiphasic samples are not present.	True
Samples do not require splitting or compositing.	True

Residual Chlorine Checked.

N/A

ATTACHMENT A



NON-HAZARDOUS MANIFEST

	1. Ge	enerator's US EPA	A ID No. M	anifest Doc	No.	2. Page 1	. of			
	NON-HAZARDOUS MANIFEŠT					1				
	3. Generator's Mailing Address: Generator's Site Address (If different than mailing):					4	est Number	T		
	MCAS, BEAUFORT	Gene	erator's Site Address (If	different than m	iailing):			ĺ		
	-					W	/MNA	0031	5834	
		REL BAY HOUSING				B. State Generator's ID				
	BEAUFORT, SC 29907									
	4. Generator's Phone 843-228-64	61								
	5. Transporter 1 Company Name	5. Transporter 1 Company Name 6. US EPA ID Number								
	EEG, INC.						C. State Transporter's ID			
							D. Transporter's Phone 843-879-0411			
			D Number							
					E. State Transporter's ID					
						F. Transporter's Phone				
	9. Designated Facility Name and Site Address 10. US EPA II HICKORY HILL LANDFILL			ID Number						
						G. State Facility ID				
	2621 LOW COUNTRY ROAD					H. State Facility Phone 843-987-4643				3
	RIDGELAND, SC 29936									
اہ	11. Description of Waste Materials				ntainers	13. Total	14. Unit	I. Misc. Comments		
G E		CAND		No.	Type	Quantity	Wt./Vol.	- · · · ·		
N	a. HEATING OIL TANKS FILLED WITH	SAND						}		
Ε		4000=====			ļ	The vertical	1.81, 3			
R	WM Profile #	102655SC				2 4 S			<u> </u>	
Α	b.									
T]			
O R	WM Profile #									- 4
"	c.									
	WM Profile #									
Ì	d.				*				·	
							1			
				384, 113, 114, 114		- 35 P. (250) 61 P. (250)	1			- 14 July 18
ŀ	WM Profile # J. Additional Descriptions for Materials List	ad Abaya		K. Disposal Location						2
	J. Additional Descriptions for Materials List	eu Above		k. Disposal Location						
				Cell		1		Level		
				Grid	_					
Ī	15. Special Handling Instructions and Additio	onal Information	2 704	Bluebell 4) 1351 CARDINAL						
ı	USIZ TREM	,				, march	107 B	11 - 6	-/1	
	D 568 LAURUI	BALL	3 843	Dolp		, R		Alba	7	< =
ŀ	Purchase Order #	/	EMERGENCY CO			(4)	San	(())	1 13 ()	ر_ب
- }			Liviend Live CO							
	16. GENERATOR'S CERTIFICATE:									
	· · · · · · · · · · · · · · · · · · ·	I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.								
f	Printed Name Signature "On behalf of"					Month	Day	Year		
_		<u> </u>				-		1	75	10
7	17. Transporter 1 Acknowledgement of Receipt of Materials									
R A N	Printed Name	in the mail	Signature	8//\\				Month	Day	Year
N S	N THE THE PERSON OF THE PERSON									12
P	10. Transitus Admin 1/1/2 and CD state Character									`
R	Printed Name		Signature					Month	Day	Year
E R	A second of the			-1					g. t.	, 4,
-+		e tiper	<u> </u>	- 130 Dec - 17 Dec -						
F	19. Certificate of Final Treatment/Disposal									
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with a applicable laws, regulations, permits and licenses on the dates listed above.					e with all	ĺ				
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.										
\	Printed Name		Signature					Month	Day	Year
\perp		s-				Service 1	a Maria	100	es, co	1. 11.

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)

219 Balsam 508 Laurel Bay 260 Beech Tank 1 510 Laurel Bay 260 Beech Tank 2 523 Laurel Bay 287 Birch 525 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 375 Aspen 584 Aster 385 Aspen 602 Dahlia 403 Elderberry 607 Dahlia 407 Elderberry 614 Dahlia 411 Elderberry 616 Dahlia 412 Elderberry 625 Dahlia 427 Elderberry 631 Dahlia 428 Elderberry 634 Dahlia 428 Elderberry 634 Dahlia 435 Elderberry 666 Camellia 455 Elderberry 666 Camellia 456 Camellia 669 Camellia 457 Elderberry 661 Camellia 458 Laurel Bay 669 Camellia	212 Balsam	503 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 615 Dahlia 412 Elderberry 629 Dahlia 421 Elderberry 629 Dahlia 422 Elderberry 631 Dahlia 423 Elderberry 634 Dahlia 424 Elderberry 634 Dahlia 425 Elderberry 660 Camellia 455 Elderberry 666 Camellia 480 Laurel Bay 666 Camellia	219 Balsam	508 Laurel Bay
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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 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	260 Beech Tank 2	523 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 625 Dahlia 421 Elderberry 629 Dahlia 422 Elderberry 631 Dahlia 423 Elderberry 634 Dahlia 431 Elderberry 660 Camellia 455 Elderberry 661 Camellia 484 Laurel Bay 666 Camellia 490 Laurel Bay 669 Camellia	267 Birch	525 Laurel Bay
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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	302 Ash	533 Laurel Bay
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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	415 Elderberry	625 Dahlia
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431 Elderberry 660 Camellia 455 Elderberry 661 Camellia 484 Laurel Bay 666 Camellia 490 Laurel Bay 669 Camellia	427 Elderberry	631 Dahlia
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484 Laurel Bay 666 Camellia 490 Laurel Bay 669 Camellia	431 Elderberry	660 Camellia
490 Laurel Bay 669 Camellia	455 Elderberry	661 Camellia
·	484 Laurel Bay	666 Camellia
502 Laurel Bay 672 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			