SUMMARY REPORT 157 ELDERBERRY DRIVE (FORMERLY 414 ELDERBERRY DRIVE) LAUREL BAY MILITARY HOUSING AREA MARINE CORPS AIR STATION BEAUFORT BEAUFORT, SC

> Revision: 0 Prepared for:

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

and



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

JUNE 2021

SUMMARY REPORT 157 ELDERBERRY DRIVE (FORMERLY 414 ELDERBERRY DRIVE) 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

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



Table of Contents

1.0	INTRODUCTION	. 1
1.1 1.2	Background Information UST Removal and Assessment Process	
2.0	SAMPLING ACTIVITIES AND RESULTS	. 3
2.1 2.2	UST REMOVAL AND SOIL SAMPLING Soil Analytical Results	
3.0	PROPERTY STATUS	. 4
4.0	REFERENCES	. 4

Table

Table 1	Laboratory	Analytical	Results - Soil
	Laboratory	ranaryticar	Results Soll

Appendices

- Appendix A Multi-Media Selection Process for LBMH
- Appendix B UST Assesment Report
- Appendix C Regulatory Correspondence



List of Acronyms

bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
СТО	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 157 Elderberry Drive (Formerly 414 Elderberry Drive). 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*



Summary Report 157 Elderberry Drive (Formerly 414 Elderberry Drive) Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort June 2021

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 157 Elderberry Drive (Formerly 414 Elderberry Drive). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 414 Elderberry Drive* (MCAS Beaufort, 2013). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On August 22, 2012, a single 280 gallon heating oil UST was removed from the rear patio area at 157 Elderberry Drive (Formerly 414 Elderberry Drive). 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



5'8" 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 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 157 Elderberry Drive (Formerly 414 Elderberry Drive) 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 157 Elderberry Drive (Formerly 414 Elderberry Drive). 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 – 414 Elderberry Drive, 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 1Laboratory Analytical Results - Soil157 Elderberry Drive (Formerly 414 Elderberry Drive)Laurel Bay Military Housing AreaMarine Corps Air Station BeaufortBeaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Sample Collected 08/22/12					
Volatile Organic Compounds Analyzed	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	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



Attachment 1

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

Date	Received		
	e.		
	State Use O	Inly	

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

I. OWNERSHIP OF UST (S)

	REAO (Craig Ehde)						
Owner Name (Corporation, Individual, Public Agency, Other)							
P.O. Box 55001 Mailing Address							
South Carolina	29904-5001						
State	Zip Code						
228-7317	Craig Ehde						
Telephone Number	Contact Person						
	al, Public Agency, Other) South Carolina State	South Carolina 29904-5001 State Zip Code 228-7317 Craig Ehde					

II. SITE IDENTIFICATION AND LOCATION

		Corps Air Station, Beaufort, SC
	rive, Laurel Bay Militar	y Housing Area
Street Address or State Ro Beaufort,	Beaufort	
City	County	A 44 - 1

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

VI. UST INFORMATION

		Elderberry
A.	Product(ex. Gas, Kerosene)	Heating oil
B.	Capacity(ex. 1k, 2k)	280 gal
C.	Age	Late 1950s
D.	Construction Material(ex. Steel, FRP)	Steel
Е·	Month/Year of Last Use	Mid 1980s
F.	Depth (ft.) To Base of Tank	5'8"
G.	Spill Prevention Equipment Y/N	No
Н·	Overfill Prevention Equipment Y/N	No
I.	Method of Closure Removed/Filled	Removed
J _.	Date Tanks Removed/Filled	8/22/2012
K.	Visible Corrosion or Pitting Y/N	Yes
L.	Visible Holes Y/N	Yes

414

M. Method of disposal for any USTs removed from the ground (attach disposal manifests) UST 414Elderberry was removed from the ground and disposed at a Subtitle "D" landfill. See Attachment "A".

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests) UST 414Elderberry had been previously filled with sand by others.

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

VII. PIPING INFORMATION

		414 Elderberry
		Steel
A.	Construction Material(ex. Steel, FRP)	& Copper
B.	Distance from UST to Dispenser	N/A
C.	Number of Dispensers	N/A
D.	Type of System Pressure or Suction	Suction
E.	Was Piping Removed from the Ground? Y/N	No
F.	Visible Corrosion or Pitting Y/N	Yes
G.	Visible Holes Y/N	No
H.	Age	Late 1950s
T	If any corrosion nitting or holes were observed de	escribe the location and extent for each nining run

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

Corrosion and pitting were found on the surface of the steel vent pipe. Copper supply and return lines were sound.

VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

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

IX. SITE CONDITIONS

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

В.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
414 Elderb'y	Excav at fill end	Soil	Sandy	5'8"	8/22/12 1500 hrs	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

Provide a detailed description of the methods used to collect <u>and</u> store the samples. Also include the preservative used for each sample. Please use the space provided below.

Sampling was performed in accordance with SC DHEC R.61-92 Part 280 and SC DHEC Assessment Guidelines. Sample containers were prepared by the testing laboratory. The grab method was utilized to fill the sample containers leaving as little head space as possible and immediately capped. Soil samples were extracted from area below tank. The samples were marked, logged, and immediately placed in a sample cooler packed with ice to maintain an approximate temperature of 4 degrees Centigrade. Tools were thoroughly cleaned and decontaminated with the seven step decon process after each use. The samples remained in custody of SBG-EEG, Inc. until they were transferred to Test America Incorporated for analysis as documented in the Chain of Custody Record.

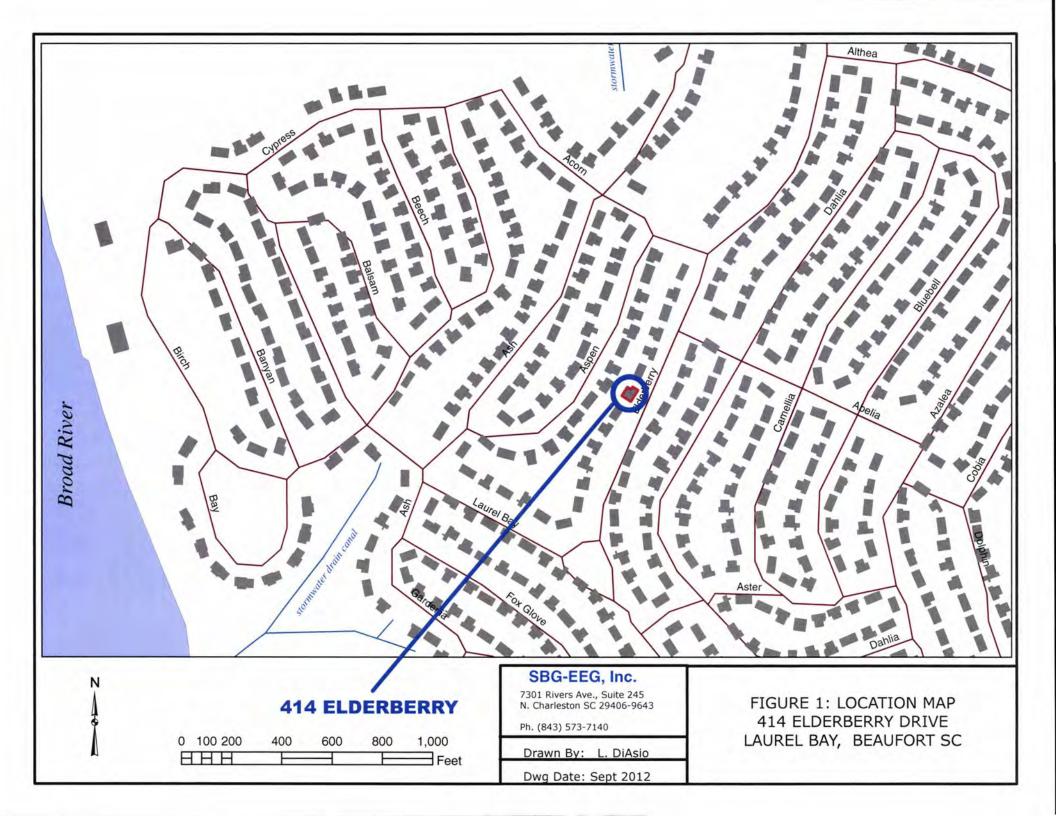
XII. RECEPTORS

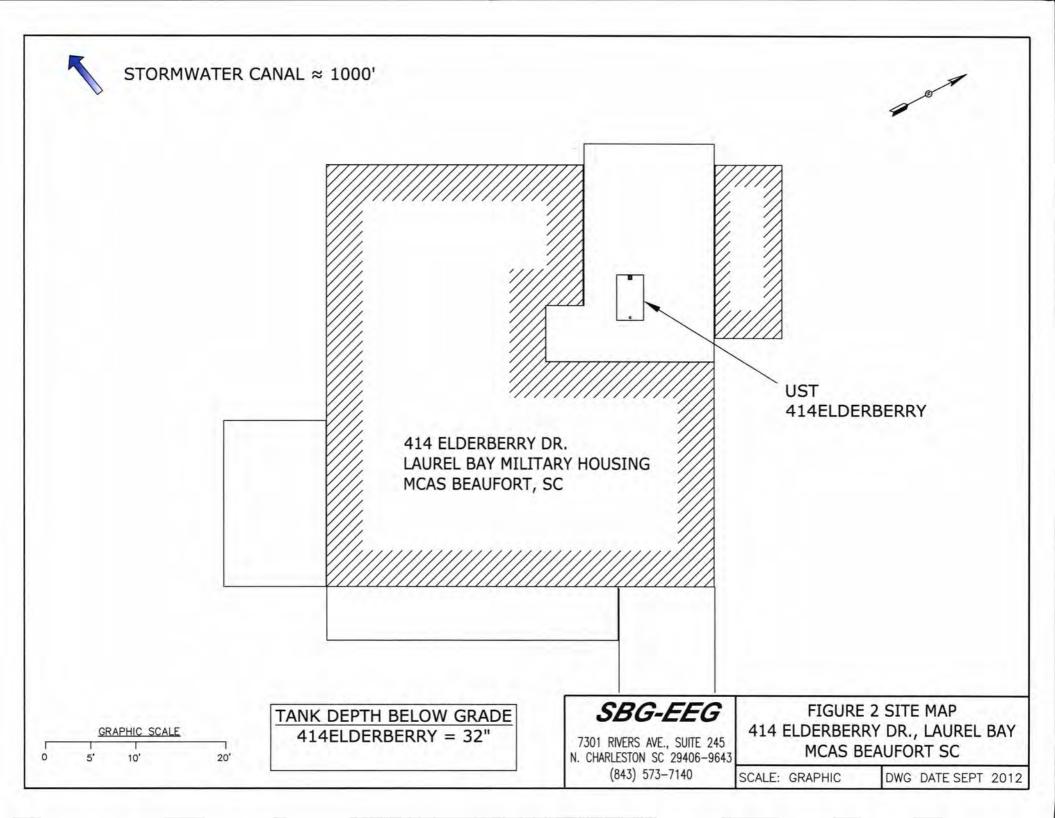
		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?	*X	_
	*Stormwater drainag	e can	al
	If yes, indicate type of receptor, distance, and direction on site map.		
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the 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	*X	
	system that could potentially come in contact with the		
	contamination? *Sewer, water, electr	licity	
	cable & fiber optic If yes, indicate the type of utility, distance, and direction on the site map.		
E.	Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete?		Х
	If yes, indicate the area of contaminated soil on the site map.		

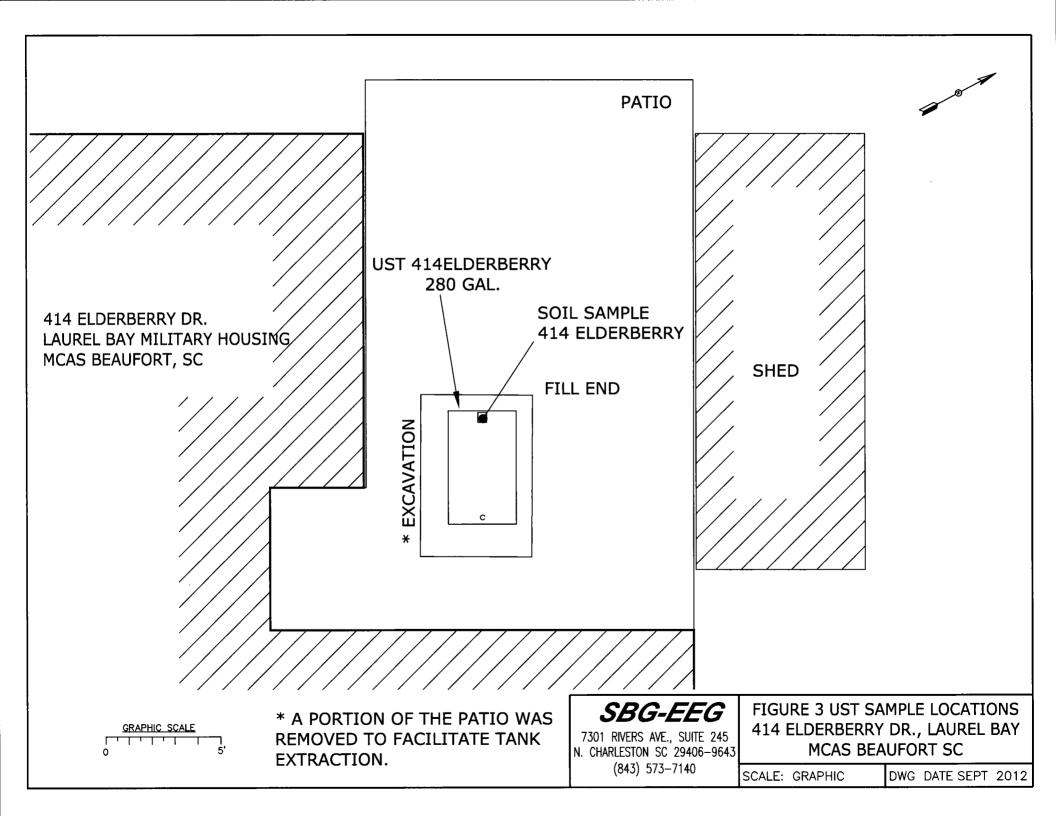
XIII. SITE MAP

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 414Elderberry.



Picture 2: UST 414Elderberry 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	414Elderber:			l	
		- <u>Y</u>			
Benzene	ND				
Toluene	ND				
Ethylbenzene	ND				
Xylenes	ND				
Naphthalene	ND				
Benzo (a) anthracene	ND				
Benzo (b) fluoranthene	ND				
Benzo (k) fluoranthene	ND				
Chrysene	ND				
Dibenz (a, h) anthracene	ND				
TPH (EPA 3550)					
CoC					
Benzene					
Toluene					_
Ethylbenzene					
Xylenes					
Naphthalene					
Benzo (a) anthracene					
Benzo (b) fluoranthene					
Benzo (k) fluoranthene					
Chrysene					
Dibenz (a, h) anthracene					
ТРН (ЕРА 3550)					

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

CoC	RBSL (µg/l)	W-1	W-2	W -3	W -4
Free Product Thickness	None				
Benzene	5				
Toluene	1,000				
Ethylbenzene	700				
Xylenes	10,000				
Total BTEX	N/A				
МТВЕ	40				
Naphthalene	25				
Benzo (a) anthracene	10				
Benzo (b) flouranthene	10				
Benzo (k) flouranthene	10	<u>,</u>			
Chrysene	10				
Dibenz (a, h) anthracene	10				
EDB	.05				
1,2-DCA	5				
Lead	Site specific				

XV. ANALYTICAL RESULTS

You must submit the laboratory report and chain-of-custody form for the samples. These samples must be analyzed by a South Carolina certified laboratory.

(Attach Certified Analytical Results and Chain-of-Custody Here) (Please see Form #4)



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 490-5126-1 Client Project/Site: Laurel Bay Housing Peoject

For:

Environmental Enterprise Group 10179 Highway 78 Ladson, South Carolina 29456

Attn: Mr. Tom McElwee

Roxanne L Connor

Authorized for release by: 9/11/2012 9:07:32 AM Roxanne Connor Senior Project Manager roxanne.connor@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.

Review your project results through Total Access

LINKS



Visit us at: www.testamericainc.com

2

13

Table of Contents

Cover Page	1
Table of Contents	2
Sample Summary	3
Case Narrative	4
Definitions	5
Client Sample Results	6
QC Sample Results	10
QC Association	15
Chronicle	17
Method Summary	19
Certification Summary	20
Chain of Custody	21
Receipt Checklists	23

Sample Summary

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

TestAmerica Job ID: 490-5126-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-5126-1	139 Laurel Bay	Solid	08/20/12 15:15	08/28/12 14:39
190-5126-2	921 Barracuda	Solid	08/21/12 14:45	08/28/12 14:39
90-5126-3	414 Elderbrary	Solid	08/22/12 15:00	08/28/12 14:39
190-5126-4	323 Ash	Solid	08/23/12 15:15	08/28/12 14:39

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

TestAmerica Job ID: 490-5126-1

Job ID: 490-5126-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-5126-1

Comments

No additional comments.

Receipt

The samples were received on 8/28/2012 2:39 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.5° C.

GC/MS VOA

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: 490-5126-01 139 Laurel Bay (490-5126-1). Evidence of matrix interference is present.

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: 490-5126-02921 Barracuda (490-5126-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: Matrix spikes for batch 16146 could not be recovered due to sample matrix interferences which required sample dilution. The associated laboratory control sample (LCS) met acceptance criteria. See LCS/LCSD

Method(s) 8260B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample(s): 139 Laurel Bay (490-5126-1).

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 16529. See LCS/LCSD

Method(s) 8260B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample(s): 921 Barracuda (490-5126-2).

Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample matrix: 921 Barracuda (490-5126-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: 921 Barracuda (490-5126-2). Evidence of matrix interference is present.

No other 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.

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

TestAmerica Job ID: 490-5126-1

5

Qualifiers

GC/MS VOA	
Qualifier	Qualifier Description
х	Surrogate is outside control limits
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

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¢	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
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

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

Client Sample ID: 139 Laurel Bay Date Collected: 08/20/12 15:15

Date Received: 08/28/12 14:39

Terphenyl-d14 (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000749	J	0.00211	0.000708	mg/Kg	Ø	08/29/12 10:00	08/29/12 14:15	1
Ethylbenzene	0.161		0.00211	0.000708	mg/Kg	13	08/29/12 10:00	08/29/12 14:15	1
Naphthalene	3.01		0.356	0.121	mg/Kg	13	08/29/12 09:49	08/30/12 15:50	1
Toluene	0.00256		0.00211	0.000782	mg/Kg	a	08/29/12 10:00	08/29/12 14:15	1
Xylenes, Total	0.00888		0.00528	0.000708	mg/Kg	12.	08/29/12 10:00	08/29/12 14:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2-Dichloroethane-d4 (Surr)	113		70 - 130				08/29/12 10:00	08/29/12 14:15	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130				08/29/12 09:49	08/30/12 15:50	1
4-Bromofluorobenzene (Surr)	372	x	70 - 130				08/29/12 10:00	08/29/12 14:15	1
4-Bromofluorobenzene (Surr)	104		70 - 130				08/29/12 09:49	08/30/12 15:50	1
Dibromofluoromethane (Surr)	107		70 - 130				08/29/12 10:00	08/29/12 14:15	1
Dibromofluoromethane (Surr)	90		70 - 130				08/29/12 09:49	08/30/12 15:50	1
Toluene-d8 (Surr)	157	x	70 - 130				08/29/12 10:00	08/29/12 14:15	1
Toluene-d8 (Surr)	103		70 - 130				08/29/12 09:49	08/30/12 15:50	1
Method: 8270D - Semivolatile	Organic Compou	nds (GC/MS	5)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0853	0.0127	mg/Kg	a	08/29/12 11:31	08/30/12 19:51	1
Acenaphthylene	ND		0.0853	0.0115	mg/Kg	33	08/29/12 11:31	08/30/12 19:51	1
Anthracene	ND		0.0853	0.0115	mg/Kg	ä	08/29/12 11:31	08/30/12 19:51	1
3enzo[a]anthracene	ND		0.0853	0.0191	mg/Kg	22	08/29/12 11:31	08/30/12 19:51	1
Benzo[a]pyrene	ND		0.0853	0.0153	mg/Kg	-	08/29/12 11:31	08/30/12 19:51	1
Benzo[b]fluoranthene	ND		0.0853	0.0153	mg/Kg	α	08/29/12 11:31	08/30/12 19:51	1
Benzo[g,h,i]perylene	ND		0.0853	0.0115	mg/Kg	α	08/29/12 11:31	08/30/12 19:51	1
Benzo[k]fluoranthene	ND		0.0853	0.0178	mg/Kg	a	08/29/12 11:31	08/30/12 19:51	1
Pyrene	ND		0.0853	0.0153	mg/Kg	13	08/29/12 11:31	08/30/12 19:51	1
Phenanthrene	0.0460	J	0.0853	0.0115	mg/Kg	ŭ	08/29/12 11:31	08/30/12 19:51	1
Chrysene	ND		0.0853	0.0115	mg/Kg	a	08/29/12 11:31	08/30/12 19:51	1
Dibenz(a,h)anthracene	ND		0.0853	0.00891	mg/Kg	a	08/29/12 11:31	08/30/12 19:51	1
Fluoranthene	ND		0.0853	0.0115	mg/Kg	11	08/29/12 11:31	08/30/12 19:51	1
Fluorene	ND		0.0853	0.0153	mg/Kg	n	08/29/12 11:31	08/30/12 19:51	1
ndeno[1,2,3-cd]pyrene	ND		0.0853	0.0127	mg/Kg	α	08/29/12 11:31	08/30/12 19:51	1
Naphthalene	ND		0.0853	0.0115	mg/Kg	Ø	08/29/12 11:31	08/30/12 19:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	52		29 - 120				08/29/12 11:31	08/30/12 19:51	1
			10 100				00/00/40 44.04	00/00/40 40.54	

64

13 - 120

TestAmerica Job ID: 490-5126-1

Lab Sample ID: 490-5126-1 Matrix: Solid

Percent Solids: 77.0

TestAmerica Nashville 9/11/2012

1

1

1

Dil Fac

08/29/12 11:31 08/30/12 19:51

Client Sample ID: 921 Barracuda

Date Collected: 08/21/12 14:45 Date Received: 08/28/12 14:39

Lab Sample ID: 490-5126-2

Matrix: Solid Percent Solids: 92.9

6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00224	0.000750	mg/Kg	Ū	08/29/12 10:00	08/30/12 14:22	1
Ethylbenzene	ND		0.114	0.0388	mg/Kg	a	08/29/12 09:49	08/30/12 15:21	1
Naphthalene	ND		0.285	0.0970	mg/Kg	O.	08/29/12 09:49	08/30/12 15:21	1
Toluene	ND		0.114	0.0422	mg/Kg	0	08/29/12 09:49	08/30/12 15:21	1
Xylenes, Total	ND		0.285	0.0388	mg/Kg	n	08/29/12 09:49	08/30/12 15:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		70 - 130				08/29/12 10:00	08/30/12 14:22	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130				08/29/12 09:49	08/30/12 15:21	1
4-Bromofluorobenzene (Surr)	189	X	70 - 130				08/29/12 10:00	08/30/12 14:22	1
4-Bromofluorobenzene (Surr)	97		70 - 130				08/29/12 09:49	08/30/12 15:21	1
Dibromofluoromethane (Surr)	109		70 - 130				08/29/12 10:00	08/30/12 14:22	1
Dibromofluoromethane (Surr)	94		70 - 130				08/29/12 09:49	08/30/12 15:21	1
Toluene-d8 (Surr)	135	x	70 - 130				08/29/12 10:00	08/30/12 14:22	1
Toluene-d8 (Surr)	86		70 - 130				08/29/12 09:49	08/30/12 15:21	1
Method: 8270D - Semivolatile	Organic Compou	inds (GC/MS	S)						
Analyte	-	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0707	0.0106	mg/Kg	ġ.	08/29/12 11:31	08/30/12 20:12	1
Acenaphthylene	ND		0.0707	0.00950	mg/Kg	15	08/29/12 11:31	08/30/12 20:12	1
Anthracene	ND		0.0707	0.00950	mg/Kg	13.	08/29/12 11:31	08/30/12 20:12	1
Benzo[a]anthracene	ND		0.0707	0.0158	mg/Kg	U.	08/29/12 11:31	08/30/12 20:12	1
Benzo[a]pyrene	0.244		0.0707	0.0127	mg/Kg	62	08/29/12 11:31	08/30/12 20:12	1
Benzo[b]fluoranthene	0.0354	J	0.0707	0.0127	mg/Kg	6.7.	08/29/12 11:31	08/30/12 20:12	1
Benzo[g,h,i]perylene	0.0994		0.0707	0.00950	mg/Kg	25	08/29/12 11:31	08/30/12 20:12	1
Benzo[k]fluoranthene	ND		0.0707	0.0148	mg/Kg	a.	08/29/12 11:31	08/30/12 20:12	1
Pyrene	ND		0.0707	0.0127	mg/Kg	13	08/29/12 11:31	08/30/12 20:12	1
Phenanthrene	ND		0.0707	0.00950	mg/Kg	52	08/29/12 11:31	08/30/12 20:12	1
Chrysene	ND		0.0707	0.00950	mg/Kg	23	08/29/12 11:31	08/30/12 20:12	1
Dibenz(a,h)anthracene	ND		0.0707	0.00739	mg/Kg	12	08/29/12 11:31	08/30/12 20:12	1
Fluoranthene	ND		0.0707	0.00950	mg/Kg	12	08/29/12 11:31	08/30/12 20:12	1
Fluorene	ND		0.0707	0.0127	mg/Kg	10	08/29/12 11:31	08/30/12 20:12	1
Indeno[1,2,3-cd]pyrene	0.0831		0.0707	0.0106	mg/Kg	ę.	08/29/12 11:31	08/30/12 20:12	1
Naphthalene	ND		0.0707	0.00950	mg/Kg	- CS	08/29/12 11:31	08/30/12 20:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	48		29 - 120				08/29/12 11:31	08/30/12 20:12	1
Terphenyl-d14 (Surr)	58		13 - 120				08/29/12 11:31	08/30/12 20:12	1
Nitrobenzene-d5 (Surr)	45		27 - 120				08/29/12 11:31	08/30/12 20:12	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93		0.10	0.10	%			08/28/12 16:24	1

Client Sample ID: 414 Elderbrary

Date Collected: 08/22/12 15:00 Date Received: 08/28/12 14:39

Lab Sample ID: 490-5126-3 Matrix: Solid

Percent Solids: 97.7

Method: 8260	8 - Volatile	Organic	Compounds	(GC/MS)
--------------	--------------	---------	-----------	---------

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	0
Benzene	ND		0.00211	0.000708	mg/Kg	Q	08/29/12 10:00	08/29/12 15:13	1	
Ethylbenzene	ND		0.00211	0.000708	mg/Kg	Ŭ.	08/29/12 10:00	08/29/12 15:13	1	6
Naphthalene	ND		0.00528	0.00180	mg/Kg	12	08/29/12 10:00	08/29/12 15:13	1	
Toluene	ND		0.00211	0.000782	mg/Kg	ü	08/29/12 10:00	08/29/12 15:13	1	
Xylenes, Total	ND		0.00528	0.000708	mg/Kg	*	08/29/12 10:00	08/29/12 15:13	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	108		70 - 130				08/29/12 10:00	08/29/12 15:13	1	
4-Bromofluorobenzene (Surr)	104		70 - 130				08/29/12 10:00	08/29/12 15:13	1	
Dibromofluoromethane (Surr)	96		70 - 130				08/29/12 10:00	08/29/12 15:13	1	
Toluene-d8 (Surr)	100		70 - 130				08/29/12 10:00	08/29/12 15:13	1	

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0666	0.00994	mg/Kg	α	08/29/12 11:31	08/30/12 20:33	1
Acenaphthylene	ND		0.0666	0.00895	mg/Kg	a	08/29/12 11:31	08/30/12 20:33	1
Anthracene	ND		0.0666	0.00895	mg/Kg	12	08/29/12 11:31	08/30/12 20:33	1
Benzo[a]anthracene	ND		0.0666	0.0149	mg/Kg	D	08/29/12 11:31	08/30/12 20:33	1
Benzo[a]pyrene	ND		0.0666	0.0119	mg/Kg	a	08/29/12 11:31	08/30/12 20:33	1
Benzo[b]fluoranthene	ND		0.0666	0.0119	mg/Kg	11	08/29/12 11:31	08/30/12 20:33	1
Benzo[g,h,i]perylene	ND		0.0666	0.00895	mg/Kg	п	08/29/12 11:31	08/30/12 20:33	1
Benzo[k]fluoranthene	ND		0.0666	0.0139	mg/Kg	,C	08/29/12 11:31	08/30/12 20:33	1
Pyrene	ND		0.0666	0.0119	mg/Kg	Ó	08/29/12 11:31	08/30/12 20:33	1
Phenanthrene	ND		0.0666	0.00895	mg/Kg	0	08/29/12 11:31	08/30/12 20:33	1
Chrysene	ND		0.0666	0.00895	mg/Kg	ø	08/29/12 11:31	08/30/12 20:33	1
Dibenz(a,h)anthracene	ND		0.0666	0.00696	mg/Kg	a	08/29/12 11:31	08/30/12 20:33	1
Fluoranthene	ND		0.0666	0.00895	mg/Kg	a	08/29/12 11:31	08/30/12 20:33	1
Fluorene	ND		0.0666	0.0119	mg/Kg	Q	08/29/12 11:31	08/30/12 20:33	1
Indeno[1,2,3-cd]pyrene	ND		0.0666	0.00994	mg/Kg	α	08/29/12 11:31	08/30/12 20:33	1
Naphthalene	ND		0.0666	0.00895	mg/Kg	a	08/29/12 11:31	08/30/12 20:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	52		29 - 120				08/29/12 11:31	08/30/12 20:33	1
Terphenyl-d14 (Surr)	67		13 - 120				08/29/12 11:31	08/30/12 20:33	1
Nitrobenzene-d5 (Surr)	50		27 - 120				08/29/12 11:31	08/30/12 20:33	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98		0.10	0.10	%			08/28/12 16:24	1

Client Sample ID: 323 Ash Date Collected: 08/23/12 15:15

Date Received: 08/28/12 14:39

Lab Sample ID: 490-5126-4 Matrix: Solid

Percent Solids: 76.2

Method:	8260B -	Volatile	Organic	Compounds	(GC/MS)	
methou.	0200D -	volatile	Organic	compounds	(GC/WIS)	

Method: 8260B - Volatile Orga	nic Compounds ((GC/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.00223	0.000747	mg/Kg	n	08/29/12 10:01	08/29/12 15:43	1	
Ethylbenzene	0.0216		0.00223	0.000747	mg/Kg	α	08/29/12 10:01	08/29/12 15:43	1	6
Naphthalene	0.143		0.00558	0.00190	mg/Kg	a	08/29/12 10:01	08/29/12 15:43	1	100
Toluene	ND		0.00223	0.000825	mg/Kg	a	08/29/12 10:01	08/29/12 15:43	1	
Xylenes, Total	0.000765	J	0.00558	0.000747	mg/Kg	11	08/29/12 10:01	08/29/12 15:43	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	104		70 - 130				08/29/12 10:01	08/29/12 15:43	1	
4-Bromofluorobenzene (Surr)	101		70 - 130				08/29/12 10:01	08/29/12 15:43	1	
Dibromofluoromethane (Surr)	98		70 - 130				08/29/12 10:01	08/29/12 15:43	1	
Toluene-d8 (Surr)	102		70 - 130				08/29/12 10:01	08/29/12 15:43	1	
Method: 8270D - Semivolatile	Organic Compou	nds (GC/MS	5)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Acenaphthene	ND		0.0853	0.0127	mg/Kg	Ω.	08/29/12 11:40	08/30/12 20:53	1	
Acenaphthylene	0.0946		0.0853	0.0115	mg/Kg	¢1	08/29/12 11:40	08/30/12 20:53	1	
Anthracene	0.0946		0.0853	0.0115	mg/Kg	n	08/29/12 11:40	08/30/12 20:53	1	155

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0853	0.0127	mg/Kg	-53	08/29/12 11:40	08/30/12 20:53	1
Acenaphthylene	0.0946		0.0853	0.0115	mg/Kg	¢1	08/29/12 11:40	08/30/12 20:53	1
Anthracene	0.0946		0.0853	0.0115	mg/Kg	12	08/29/12 11:40	08/30/12 20:53	1
Benzo[a]anthracene	0.0946		0.0853	0.0191	mg/Kg	12	08/29/12 11:40	08/30/12 20:53	1
Benzo[a]pyrene	0.0564	J	0.0853	0.0153	mg/Kg	Ð	08/29/12 11:40	08/30/12 20:53	1
Benzo[b]fluoranthene	0.0868		0.0853	0.0153	mg/Kg	¢7	08/29/12 11:40	08/30/12 20:53	1
Benzo[g,h,i]perylene	ND		0.0853	0.0115	mg/Kg	ø	08/29/12 11:40	08/30/12 20:53	1
Benzo[k]fluoranthene	0.0358	J	0.0853	0.0178	mg/Kg	12	08/29/12 11:40	08/30/12 20:53	1
Pyrene	0.213		0.0853	0.0153	mg/Kg	22	08/29/12 11:40	08/30/12 20:53	1
Phenanthrene	0.890		0.0853	0.0115	mg/Kg	12	08/29/12 11:40	08/30/12 20:53	1
Chrysene	0.126		0.0853	0.0115	mg/Kg	Ø	08/29/12 11:40	08/30/12 20:53	1
Dibenz(a,h)anthracene	ND		0.0853	0.00891	mg/Kg	a	08/29/12 11:40	08/30/12 20:53	1
Fluoranthene	0.160		0.0853	0.0115	mg/Kg	-	08/29/12 11:40	08/30/12 20:53	1
Fluorene	0.482		0.0853	0.0153	mg/Kg	12	08/29/12 11:40	08/30/12 20:53	1
Indeno[1,2,3-cd]pyrene	ND		0.0853	0.0127	mg/Kg	13	08/29/12 11:40	08/30/12 20:53	1
Naphthalene	0.172		0.0853	0.0115	mg/Kg	a	08/29/12 11:40	08/30/12 20:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	60		29 - 120				08/29/12 11:40	08/30/12 20:53	1
Terphenyl-d14 (Surr)	71		13 - 120				08/29/12 11:40	08/30/12 20:53	1
Nitrobenzene-d5 (Surr)	59		27 - 120				08/29/12 11:40	08/30/12 20:53	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	76		0.10	0.10	%			08/28/12 16:24	1

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

Lab Sample ID: MB 490-16146/6
Matrix: Solid
Analysis Batch: 16146

Matrix: Solid								Prep Type: 1	Total/NA
Analysis Batch: 16146	мв	мв							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			08/29/12 11:19	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			08/29/12 11:19	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			08/29/12 11:19	1
Toluene	ND		0.00200	0.000740	mg/Kg			08/29/12 11:19	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			08/29/12 11:19	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130					08/29/12 11:19	1
4-Bromofluorobenzene (Surr)	107		70 - 130					08/29/12 11:19	1

70 - 130

70 - 130

Lab Sample ID: LCS 490-16146/3 Matrix: Solid Analysis Batch: 16146

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0500	0.04734		mg/Kg		95	75 - 127	
Ethylbenzene	0.0500	0.04880		mg/Kg		98	80 - 134	
Naphthalene	0.0500	0.05168		mg/Kg		103	69 - 150	
Toluene	0.0500	0.04795		mg/Kg		96	80 - 132	
Xylenes, Total	0.150	0.1468		mg/Kg		98	80 - 137	

94

101

LCS	LCS	
%Recovery	Qualifier	Limits
102		70 - 130
106		70 - 130
98		70 - 130
101		70 - 130
	%Recovery 102 106 98	102 106 98

Lab Sample ID: LCSD 490-16146/4 Matrix: Solid

Analysis Batch: 16146

Analysis Batch: 16146											
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.0500	0.04818		mg/Kg		96	75 - 127	2	50
Ethylbenzene			0.0500	0.04882		mg/Kg		98	80 - 134	0	50
Naphthalene			0.0500	0.04990		mg/Kg		100	69 - 150	4	50
Toluene			0.0500	0.04845		mg/Kg		97	80 - 132	1	50
Xylenes, Total			0.150	0.1467		mg/Kg		98	80 - 137	0	50
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	100		70 - 130

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

08/29/12 11:19

08/29/12 11:19

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

TestAmerica Nashville 9/11/2012

TestAmerica Job ID: 490-5126-1

Client Sample ID: Method Blank

7

1

1

TestAmerica Job ID: 490-5126-1

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

	MB Qualifier	RL 0.00200 0.00200 0.00500 0.00200	MDL 0.000670 0.000670 0.00170		D	Prepared	Prep Type: 1 Analyzed 08/30/12 11:56	Total/NA Dil Fac 1
Result ND ND ND ND ND		0.00200 0.00200 0.00500	0.000670 0.000670	mg/Kg	D	Prepared	08/30/12 11:56	Dil Fac
Result ND ND ND ND ND		0.00200 0.00200 0.00500	0.000670 0.000670	mg/Kg	D	Prepared	08/30/12 11:56	Dil Fac
ND ND ND ND	Quanter	0.00200 0.00200 0.00500	0.000670 0.000670	mg/Kg		riepaieu	08/30/12 11:56	1
ND ND ND ND		0.00200 0.00500	0.000670					
ND ND ND		0.00500		mg/ng			08/30/12 11:56	1
ND ND			0.00170	malka			08/30/12 11:56	1
ND		0.00200	0.000740				08/30/12 11:56	1
МВ		0.00500	0.000670				08/30/12 11:56	1
	МВ							
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
97		70 - 130				THE STEE	08/30/12 11:56	1
102		70 - 130					08/30/12 11:56	1
95		70 - 130					08/30/12 11:56	1
105		70 - 130					08/30/12 11:56	1
						Client Sa	ample ID: Metho	d Blank
							prove	
MB	MB							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ND		0.100	0.0335	mg/Kg			08/30/12 12:25	1
ND		0.100	0.0335	mg/Kg			08/30/12 12:25	1
ND		0.250	0.0850	mg/Kg			08/30/12 12:25	1
ND		0.100	0.0370	mg/Kg			08/30/12 12:25	1
ND		0.250	0.0335	mg/Kg			08/30/12 12:25	1
	Qualifier	Limits				Prepared	Analyzed	Dil Fac
89		70 - 130					08/30/12 12:25	1
101		70 - 130					08/30/12 12:25	1
93		70 - 130					08/30/12 12:25	1
102		70 - 130					08/30/12 12:25	1
					Cli	ent Sample	ID: Lab Control	Sample
							Prep Type: T	otal/NA
	97 102 95 105 MB Result ND ND ND ND ND ND ND 89 %Recovery 89 101 93	97 102 95 105 105 105 105 105 105 105 105 105 10	97 70 - 130 102 70 - 130 95 70 - 130 95 70 - 130 105 70 - 130 105 70 - 130 105 70 - 130 105 70 - 130 105 70 - 130 105 70 - 130 ND 0.100 ND 0.250 ND 0.250 ND 0.250 MB MB %Recovery Qualifier Limits 89 70 - 130 101 70 - 130 93 70 - 130	97 70 - 130 102 70 - 130 95 70 - 130 95 70 - 130 105 70 - 130 105 70 - 130 105 70 - 130 105 70 - 130 105 70 - 130 105 70 - 130 ND 0.100 0.0335 ND 0.100 0.0335 ND 0.100 0.0370 ND 0.250 0.0850 ND 0.100 0.0370 ND 0.250 0.0335 MB MB # %Recovery Qualifier Limits 89 70 - 130 101 101 70 - 130 93 93 70 - 130 130	97 70 - 130 102 70 - 130 95 70 - 130 95 70 - 130 105 70 - 130 105 70 - 130 105 70 - 130 105 70 - 130 105 70 - 130 105 70 - 130 ND 0.100 0.0335 ND 0.250 0.0850 ND 0.250 0.0335 MB MB %Recovery Qualifier Limits 89 70 - 130 101 70 - 130 93 70 - 130	97 70 - 130 102 70 - 130 95 70 - 130 105 70 - 130 105 70 - 130 105 70 - 130 105 70 - 130 105 70 - 130 MB MB Result Qualifier RL MDL Unit D ND 0.100 0.0335 mg/Kg ND 0.100 0.0370 mg/Kg ND 0.100 0.0370 mg/Kg ND 0.250 0.0335 mg/Kg MB MB #MB #MB %Recovery Qualifier Limits 89 70 - 130 101 70 - 130 93 70 - 130 102 70 - 130 102 70 - 130<	97 70.130 102 70.130 95 70.130 105 70.130 Client Sa MB MB Result Qualifier ND 0.100 0.0335 mg/Kg ND 0.250 0.0850 mg/Kg ND 0.250 0.0335 mg/Kg MB MB # * %Recovery Qualifier Limits Prepared 89 70.130 * * 93 70.130 * * 93 70.130 * * 102	97 70 - 130 08/30/12 11:56 102 70 - 130 08/30/12 11:56 95 70 - 130 08/30/12 11:56 105 70 - 130 08/30/12 11:56 Client Sample ID: Metho Prep Type: 1 MB MB Result Qualifier RL MDL D Prepared Analyzed ND 0.100 0.0335 mg/Kg 08/30/12 12:25 08/30/12 12:25 ND 0.100 0.0335 mg/Kg 08/30/12 12:25 ND 0.100 0.0335 mg/Kg 08/30/12 12:25 ND 0.250 0.0850 mg/Kg 08/30/12 12:25 ND 0.250 0.0335 mg/Kg 08/30/12 12:25 MB MB # # # # %Recovery Qualifier Limits Prepared Analyzed 89

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0500	0.04262		mg/Kg		85	75 - 127	
Ethylbenzene	0.0500	0.04570		mg/Kg		91	80 - 134	
Naphthalene	0.0500	0.04818		mg/Kg		96	69 - 150	
Toluene	0.0500	0.04573		mg/Kg		91	80 - 132	
Xylenes, Total	0.150	0.1373		mg/Kg		92	80 - 137	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	103		70 - 130

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

Lab Sample ID: LCSD 490-1 Matrix: Solid	6529/4					Clie	nt Sam	ple ID:	Lab Contro Prep T	l Sampl	
Analysis Batch: 16529			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.0500	0.04248		mg/Kg		85	75 - 127	0	50
Ethylbenzene			0.0500	0.04549		mg/Kg		91	80 - 134	0	50
Naphthalene			0.0500	0.04858		mg/Kg		97	69 - 150	1	50
Toluene			0.0500	0.04544		mg/Kg		91	80 - 132	1	50
Xylenes, Total			0.150	0.1364		mg/Kg		91	80 - 137	1	50
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	102		70 - 130								
4-Bromofluorobenzene (Surr)	108		70 - 130								
Dibromofluoromethane (Surr)	97		70 - 130								
Toluene-d8 (Surr)	103		70 - 130								

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

MB MB

Lab Sample ID: MB 490-16257/1-A Matrix: Solid

Analysis Batch: 16603

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16257

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		08/29/12 11:31	08/30/12 12:48	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		08/29/12 11:31	08/30/12 12:48	1
Anthracene	ND		0.0670	0.00900	mg/Kg		08/29/12 11:31	08/30/12 12:48	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		08/29/12 11:31	08/30/12 12:48	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		08/29/12 11:31	08/30/12 12:48	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		08/29/12 11:31	08/30/12 12:48	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		08/29/12 11:31	08/30/12 12:48	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		08/29/12 11:31	08/30/12 12:48	1
Pyrene	ND		0.0670	0.0120	mg/Kg		08/29/12 11:31	08/30/12 12:48	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		08/29/12 11:31	08/30/12 12:48	1
Chrysene	ND		0.0670	0.00900	mg/Kg		08/29/12 11:31	08/30/12 12:48	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		08/29/12 11:31	08/30/12 12:48	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		08/29/12 11:31	08/30/12 12:48	1
Fluorene	ND		0.0670	0.0120	mg/Kg		08/29/12 11:31	08/30/12 12:48	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		08/29/12 11:31	08/30/12 12:48	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		08/29/12 11:31	08/30/12 12:48	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	68		29 - 120				08/29/12 11:31	08/30/12 12:48	1
Terphenyl-d14 (Surr)	85		13 - 120				08/29/12 11:31	08/30/12 12:48	1
Nitrobenzene-d5 (Surr)	64		27 - 120				08/29/12 11:31	08/30/12 12:48	1

Lab Sample ID: LCS 490-16257/2-A Matrix: Solid

Analysis Batch: 16603

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Acenaphthylene	1.67	1.454		mg/Kg		87	38 - 120	
Anthracene	1.67	1.462		mg/Kg		88	46 - 124	
Benzo[a]anthracene	1.67	1.415		mg/Kg		85	45 - 120	

Prep Type: Total/NA

Prep Batch: 16257

Client Sample ID: Lab Control Sample

12

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

44

Lab Sample ID: LCS 490-162 Matrix: Solid	257/2-A					Client	Sample	Prep Type: Total/NA
Analysis Batch: 16603		Spike	1.05	LCS				Prep Batch: 16257 %Rec.
Analyte		Added		Qualifier	Unit	D	%Rec	Limits
Benzo[a]pyrene		1.67	1.526	quanter	mg/Kg		92	45 - 120
Benzo[b]fluoranthene		1.67	1.500		mg/Kg		90	42 - 120
Benzo[g,h,i]perylene		1.67	1.522		mg/Kg		91	38 - 120
Benzo[k]fluoranthene		1.67	1.351		mg/Kg		81	42 - 120
Pyrene		1.67	1.434		mg/Kg		86	43 - 120
Phenanthrene		1.67	1.422		mg/Kg		85	45 - 120
Chrysene		1.67	1.450		mg/Kg		87	43 - 120
Dibenz(a,h)anthracene		1.67	1.534		mg/Kg		92	32 - 128
Fluoranthene		1.67	1.430		mg/Kg		86	46 - 120
Fluorene		1.67	1.392		mg/Kg		84	42 - 120
Indeno[1,2,3-cd]pyrene		1.67	1.535		mg/Kg		92	41 - 121
Naphthalene		1.67	1.476		mg/Kg		89	32 - 120
	LCS LCS							
Surrogate	%Recovery Qualifier	Limits						
2-Fluorobiphenyl (Surr)	56	29 - 120						
Terphenyl-d14 (Surr)	74	13 - 120						
Nitrobenzene-d5 (Surr)	54	27 - 120						

Lab Sample ID: 490-5116-D-1-B MS Matrix: Solid Analysis Batch: 16603

Nitrobenzene-d5 (Surr)

Analysis Batch. 10003	Sample	Sample	Spike	MS	MS				%Rec.	CII. 1025
Analyte		Qualifier	Added	Result		Unit	D	%Rec	Limits	
Acenaphthylene	ND		2.21	1.650		mg/Kg	13	75	25 - 120	
Anthracene	ND		2.21	1.572		mg/Kg	α	71	28 - 125	
Benzo[a]anthracene	ND		2.21	1.529		mg/Kg	33	69	23 - 120	
Benzo[a]pyrene	ND		2.21	1.673		mg/Kg	IJ.	76	15 - 128	
Benzo[b]fluoranthene	ND		2.21	1.660		mg/Kg	n	75	12 - 133	
Benzo[g,h,i]perylene	ND		2.21	1.579		mg/Kg	n	71	22 - 120	
Benzo[k]fluoranthene	ND		2.21	1.432		mg/Kg	12	65	28 - 120	
Pyrene	ND		2.21	1.586		mg/Kg	\$	72	20 - 123	
Phenanthrene	ND		2.21	1.553		mg/Kg	33	70	21 - 122	
Chrysene	ND		2.21	1.553		mg/Kg	12	70	20 - 120	
Dibenz(a,h)anthracene	ND		2.21	1.600		mg/Kg	13	72	12 - 128	
Fluoranthene	ND		2.21	1.573		mg/Kg	3,2	71	10 - 143	
Fluorene	ND		2.21	1.575		mg/Kg	12	71	20 - 120	
Indeno[1,2,3-cd]pyrene	ND		2.21	1.626		mg/Kg	12	73	22 - 121	
Naphthalene	ND		2.21	1.598		mg/Kg	CI	72	10 - 120	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
2-Fluorobiphenyl (Surr)	48		29 - 120							
Terphenyl-d14 (Surr)	61		13 - 120							

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

Prep Batch: 16257

27 - 120

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

Lab Sample ID: 490-5116-D-	-1-C MSD					C	lient Sa	ample ID	D: Matrix Sp	oike Dup	olicate	
Matrix: Solid									Prep 1	Type: Tot	tal/NA	
Analysis Batch: 16603									Prep	Batch:	16257	1.5
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Acenaphthylene	ND		2.16	1.714		mg/Kg	02	79	25 - 120	4	50	
Anthracene	ND		2.16	1.602		mg/Kg	0	74	28 - 125	2	49	-
Benzo[a]anthracene	ND		2.16	1.638		mg/Kg	0	76	23 - 120	7	50	7
Benzo[a]pyrene	ND		2.16	1.752		mg/Kg	0	81	15 - 128	5	50	
Benzo[b]fluoranthene	ND		2.16	1.700		mg/Kg	п	79	12 - 133	2	50	
Benzo[g,h,i]perylene	ND		2.16	1.581		mg/Kg	10	73	22 - 120	0	50	
Benzo[k]fluoranthene	ND		2.16	1.529		mg/Kg	13	71	28 - 120	7	45	
Pyrene	ND		2.16	1.631		mg/Kg	0	76	20 - 123	3	50	
Phenanthrene	ND		2.16	1.613		mg/Kg	-05	75	21 - 122	4	50	
Chrysene	ND		2.16	1.620		mg/Kg	8	75	20 - 120	4	49	
Dibenz(a,h)anthracene	ND		2.16	1.654		mg/Kg	(D)	77	12 - 128	3	50	
Fluoranthene	ND		2.16	1.641		mg/Kg	-0-	76	10 - 143	4	50	
Fluorene	ND		2.16	1.626		mg/Kg	α	75	20 - 120	3	50	
Indeno[1,2,3-cd]pyrene	ND		2.16	1.645		mg/Kg	α	76	22 - 121	1	50	
Naphthalene	ND		2.16	1.735		mg/Kg	a	80	10 - 120	8	50	18
	MSD	MSD										-
Surrogate	%Recovery	Qualifier	Limits									
2-Fluorobiphenyl (Surr)	52		29 - 120									
Terphenyl-d14 (Surr)	68		13 - 120									
Nitrobenzene-d5 (Surr)	51		27 - 120									

Method: Moisture - Percent Moisture

Lab Sample ID: 490-5126-1 DU						Client	Sample ID: 139 Laure	
Matrix: Solid							Prep Type: To	tal/NA
Analysis Batch: 16055								
	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Percent Solids	77		77		9/0		0.3	20

QC Association Summary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Peoject TestAmerica Job ID: 490-5126-1

GC/MS VOA

Analysis Batch: 16146 Lab Sample ID **Client Sample ID** Prep Type Matrix Method Prep Batch 490-5126-1 Total/NA 16183 139 Laurel Bay Solid 8260B 490-5126-3 414 Elderbrary Total/NA 8260B 16183 Solid 490-5126-4 16183 323 Ash Total/NA Solid 8260B LCS 490-16146/3 Lab Control Sample Total/NA Solid 8260B LCSD 490-16146/4 Lab Control Sample Dup Total/NA Solid 8260B 8260B MB 490-16146/6 Method Blank Total/NA Solid Prep Batch: 16172 Lab Sample ID **Client Sample ID** Prep Type Matrix Method Prep Batch 490-5126-1 139 Laurel Bay Total/NA Solid 5035 490-5126-2 921 Barracuda 5035 Total/NA Solid Prep Batch: 16183 **Client Sample ID** Method Prep Batch Lab Sample ID Prep Type Matrix 490-5126-1 139 Laurel Bay Total/NA Solid 5035 490-5126-2 921 Barracuda Total/NA Solid 5035 490-5126-3 414 Elderbrary Total/NA Solid 5035 490-5126-4 323 Ash Total/NA Solid 5035 Analysis Batch: 16529 Prep Batch Lab Sample ID **Client Sample ID** Method Prep Type Matrix 490-5126-1 139 Laurel Bay Total/NA Solid 8260B 16172 490-5126-2 921 Barracuda Total/NA Solid 8260B 16183 490-5126-2 921 Barracuda Total/NA Solid 8260B 16172 LCS 490-16529/3 Lab Control Sample Total/NA Solid 8260B LCSD 490-16529/4 Lab Control Sample Dup Total/NA Solid 8260B MB 490-16529/6 8260B Method Blank Total/NA Solid MB 490-16529/7 Method Blank Total/NA Solid 8260B GC/MS Semi VOA Prep Batch: 16257 Lab Sample ID **Client Sample ID** Prep Type Matrix Method Prep Batch 490-5116-D-1-B MS Matrix Spike Total/NA Solid 3550C 490-5116-D-1-C MSD Matrix Spike Duplicate Total/NA Solid 3550C 490-5126-1 139 Laurel Bay Total/NA Solid 3550C 490-5126-2 921 Barracuda Total/NA Solid 3550C 490-5126-3 414 Elderbrary Total/NA Solid 3550C 490-5126-4 323 Ash Total/NA Solid 3550C

Analysis Batch: 16603

Lab Control Sample

Method Blank

LCS 490-16257/2-A

MB 490-16257/1-A

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-5116-D-1-B MS	Matrix Spike	Total/NA	Solid	8270D	16257
490-5116-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	16257
490-5126-1	139 Laurel Bay	Total/NA	Solid	8270D	16257
490-5126-2	921 Barracuda	Total/NA	Solid	8270D	16257
490-5126-3	414 Elderbrary	Total/NA	Solid	8270D	16257
490-5126-4	323 Ash	Total/NA	Solid	8270D	16257
LCS 490-16257/2-A	Lab Control Sample	Total/NA	Solid	8270D	16257
MB 490-16257/1-A	Method Blank	Total/NA	Solid	8270D	16257

Total/NA

Total/NA

Solid

Solid

3550C

3550C

QC Association Summary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Peoject TestAmerica Job ID: 490-5126-1

General Chemistry

Analysis Batch: 16055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-5126-1	139 Laurel Bay	Total/NA	Solid	Moisture	
490-5126-1 DU	139 Laurel Bay	Total/NA	Solid	Moisture	
90-5126-2	921 Barracuda	Total/NA	Solid	Moisture	
90-5126-3	414 Elderbrary	Total/NA	Solid	Moisture	
490-5126-4	323 Ash	Total/NA	Solid	Moisture	

Client Sample ID: 139 Laurel Bay Date Collected: 08/20/12 15:15 Date Received: 08/28/12 14:39

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			16183	08/29/12 10:00	ML	TAL NSH
Total/NA	Analysis	8260B		1	16146	08/29/12 14:15	КК	TAL NSH
Total/NA	Prep	5035			16172	08/29/12 09:49	ML	TAL NSH
Total/NA	Analysis	8260B		1	16529	08/30/12 15:50	KK	TAL NSH
Total/NA	Prep	3550C			16257	08/29/12 11:31	AK	TAL NSH
Total/NA	Analysis	8270D		1	16603	08/30/12 19:51	WS	TAL NSH
Total/NA	Analysis	Moisture		1	16055	08/28/12 16:24	ML	TAL NSH

Client Sample ID: 921 Barracuda

Date Collected: 08/21/12 14:45 Date Received: 08/28/12 14:39

	Batch	Batch		Dilution	Batch	Prepared
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed
Total/NA	Prep	5035			16183	08/29/12 10:00
Total/NA	Analysis	8260B		1	16529	08/30/12 14:22
Total/NA	Prep	5035			16172	08/29/12 09:49
Total/NA	Analysis	8260B		1	16529	08/30/12 15:21

Total/NA Analysis 8260B 1 Total/NA Prep 3550C 1 Total/NA Analysis 8270D 1 Total/NA Analysis Moisture 1

Client Sample ID: 414 Elderbrary Date Collected: 08/22/12 15:00 Date Received: 08/28/12 14:39

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			16183	08/29/12 10:00	ML	TAL NSH
Total/NA	Analysis	8260B		1	16146	08/29/12 15:13	КК	TAL NSH
Total/NA	Prep	3550C			16257	08/29/12 11:31	AK	TAL NSH
Total/NA	Analysis	8270D		1	16603	08/30/12 20:33	WS	TAL NSH
Total/NA	Analysis	Moisture		1	16055	08/28/12 16:24	ML	TAL NSH

16257

16603

16055

Client Sample ID: 323 Ash Date Collected: 08/23/12 15:15

Date Received: 08/28/12 14:39

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			16183	08/29/12 10:01	ML	TAL NSH
Total/NA	Analysis	8260B		1	16146	08/29/12 15:43	кк	TAL NSH
Total/NA	Prep	3550C			16257	08/29/12 11:40	AK	TAL NSH
Total/NA	Analysis	8270D		1	16603	08/30/12 20:53	WS	TAL NSH
Total/NA	Analysis	Moisture		1	16055	08/28/12 16:24	ML	TAL NSH

TestAmerica Job ID: 490-5126-1

Lab Sample ID: 490-5126-1

Matrix: Solid Percent Solids: 77.0

Lab Sample ID: 490-5126-2

Analyst

ML

KK

ML

KK

AK

WS

ML

08/29/12 11:31

08/30/12 20:12

08/28/12 16:24

Matrix: Solid Percent Solids: 92.9

Lab

TAL NSH

TAL NSH

TAL NSH

TAL NSH

TAL NSH

TAL NSH

9

Lab Sample ID: 490-5126-3 Matrix: Solid

Lab Sample ID: 490-5126-4

Percent Solids: 97.7

Matrix: Solid

Percent Solids: 76.2

Laboratory References:

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

TestAmerica Job ID: 490-5126-1

Method	Method Description	Protocol	Laboratory
3260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
270D	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

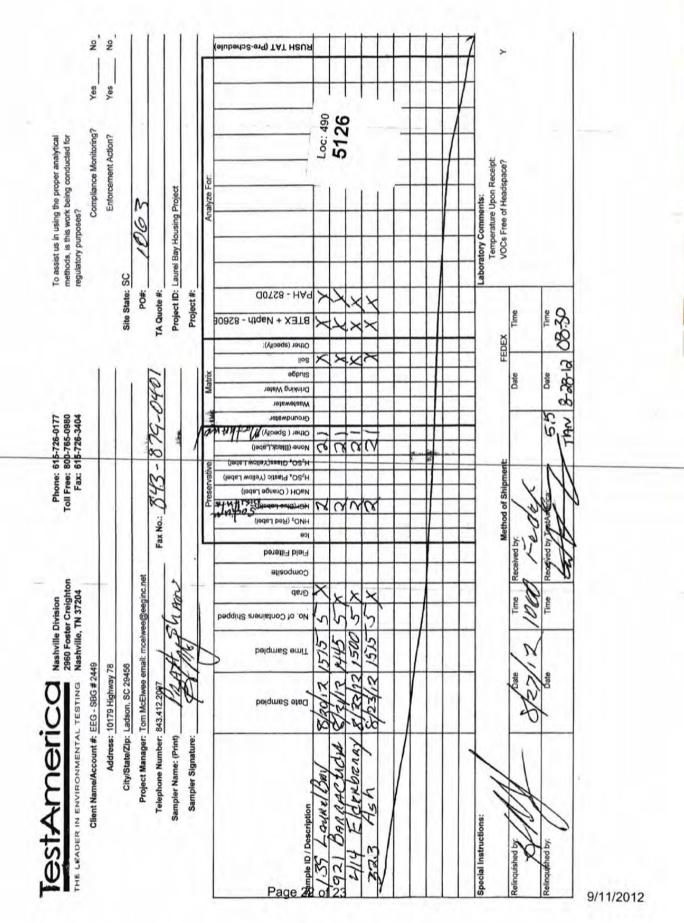
Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Peoject TestAmerica Job ID: 490-5126-1

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
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	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
Florida	NELAC	4	E87358	06-30-13
Illinois	NELAC	5	200010	12-09-12
Iowa	State Program	7	131	05-01-14
Kansas	NELAC	7	E-10229	10-31-12
Kentucky	State Program	4	90038	12-31-12
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAC	6	LA110014	12-31-12
Louisiana	NELAC	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAC	5	047-999-345	12-31-12
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	09-30-12
New Hampshire	NELAC	1	2963	10-09-12
New Jersey	NELAC	2	TN965	06-30-13
New York	NELAC	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-12
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
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
Tennessee	State Program	4	2008	02-23-14
Texas	NELAC	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAC	8	TAN	06-30-13
Virginia	NELAC	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-13
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

THE LEADER IN ENVIRONMENTAL TESTING Nashville, TN COOLER RECEIPT FORM	
Cooler Received/Opened On <u>8/28/2012 @ 0830</u> . Tracking #	490-5126 Chain of
Courier: FedEx IR Gun ID_14740456	DOUDUL
2. Temperature of rep. sample or temp blank when opened: 5.5 Degrees Celsius	
 If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen 	2 VES NO MA
	6
If yes, how many and where: 2 From /B3CK	ES.NONA
	ES.NO.NA
. Were the seals intact, signed, and dated correctly?	6
. Were custody papers inside cooler?	VES NO NA
certify that I opened the cooler and answered guestions 1-6 (intial)	
. Were custody seals on containers: YES KD and Intact	YESNO.
Were these signed and dated correctly?	YESNO. (NA)
. Packing mat'l used? Bubblewra) Plastic bag Peanuts Vermiculite Foam Insert Pap	per Other None
. Cooling process:	
. Cooling process: 0. Did all containers arrive in good condition (unbroken)?	ce Other None
 Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper 2014. Cooling process: Ice-pack Ice (direct contact) Dry i Did all containers arrive in good condition (unbroken)? Were all container labels complete (#, date, signed, pres., etc)? Did all container labels and tags agree with custody papers? 	ce Other None
 Cooling process: Ice-pack Ice (direct contact) Dry i Did all containers arrive in good condition (unbroken)? Were all container labels complete (#, date, signed, pres., etc)? Did all container labels and tags agree with custody papers? 	ce Other None
 Cooling process: Ice-pack Ice (direct contact) Dry i Did all containers arrive in good condition (unbroken)? Were all container labels complete (#, date, signed, pres., etc)? Did all container labels and tags agree with custody papers? 	ce Other None
 Cooling process: Ice-pack Ice (direct contact) Dry i Did all containers arrive in good condition (unbroken)? Were all container labels complete (#, date, signed, pres., etc)? Did all container labels and tags agree with custody papers? Were VOA vials received? Was there any observable headspace present in any VOA vial? 	ce Other None ESNONA VESNONA VESNONA VESNONA VESNONA
 Cooling process: Ice-pack Ice (direct contact) Dry i Did all containers arrive in good condition (unbroken)? Were all container labels complete (#, date, signed, pres., etc)? Did all container labels and tags agree with custody papers? Were VOA vials received? Was there any observable headspace present in any VOA vial? Was there a Trip Blank in this cooler? YESNO NA If multiple coolers, seque 	ce Other None ESNONA VESNONA VESNONA VESNONA VESNONA
Cooling process: Ice-pack lce (direct contact) Dry i Ice-pack lce (direct contact) Ice-pack l	ce Other None VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA
Cooling process: Ice-pack lce (direct contact) Dry i Ice-pack lce (direct contact) Ice-pack lce (direct contact) Ice-pack lce (direct contact) Dry i Ice-pack lce (direct contact) Ice-pack lce (direct contact	ce Other None VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA
Cooling process: Cooling process: Did all containers arrive in good condition (unbroken)? Were all container labels complete (#, date, signed, pres., etc)? Did all container labels and tags agree with custody papers? Were VOA vials received? Was there any observable headspace present in any VOA vial? Was there a Trip Blank in this cooler? YESNO NA If multiple coolers, seque certify that I unloaded the cooler and answered questions 7-14 (intial) On pres'd bottles, did pH test strips suggest preservation reached the correct pH leve b. Did the bottle labels indicate that the correct preservatives were used 	ce Other None ES.NONA ES.NONA ESNONA ESNONA YESNONA YESNONA YESNONA YESNONA YESNONA YESNONA YESNONA YESNONA
Cooling process: Cooling process: Did all containers arrive in good condition (unbroken)? Were all container labels complete (#, date, signed, pres., etc)? Did all container labels and tags agree with custody papers? Did all container labels not tags agree with custody papers? Were VOA vials received? Was there any observable headspace present in any VOA vial? Was there a Trip Blank in this cooler? YESNO NA If multiple coolers, seque certify that I unloaded the cooler and answered questions 7-14 (intial) On pres'd bottles, did pH test strips suggest preservation reached the correct pH leve b. Did the bottle labels indicate that the correct preservatives were used Was residual chlorine present?	ce Other None VESNONA VESNONA VESNONA VESNONA YESNONA YESNONA YESNONA YESNONA YESNONA YESNONA YESNONA YESNONA
Cooling process: Ice-pack lce (direct contact) Dry i Ice-pack lce (direct contact) Ice-pack lce (directon) Ice-pack lce (directon) Ice-pack lce (directon	ce Other None VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA
Cooling process: Cooling process: Did all containers arrive in good condition (unbroken)? Were all container labels complete (#, date, signed, pres., etc)? Did all container labels and tags agree with custody papers? Were VOA vials received? Was there any observable headspace present in any VOA vial? Was there a Trip Blank in this cooler? YESNO NA If multiple coolers, sequed certify that I unloaded the cooler and answered questions 7-14 (intial) On pres'd bottles, did pH test strips suggest preservation reached the correct pH level b. Did the bottle labels indicate that the correct preservatives were used Was residual chlorine present? Certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) Were custody papers properly filled out (ink, signed, etc)?	ce Other None VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA
Cooling process: Cooling process: Did all containers arrive in good condition (unbroken)? Were all container labels complete (#, date, signed, pres., etc)? Did all container labels and tags agree with custody papers? Were VOA vials received? Was there any observable headspace present in any VOA vial? Was there a Trip Blank in this cooler? YESNO NO YESNO If multiple coolers, seque certify that I unloaded the cooler and answered questions 7-14 (intial) On pres'd bottles, did pH test strips suggest preservation reached the correct pH leve b. Did the bottle labels indicate that the correct preservatives were used Was residual chlorine present? Were custody papers properly filled out (ink, signed, etc)? Did you sign the custody papers in the appropriate place?	Ce Other None VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA
Cooling process: Cooling process: Did all containers arrive in good condition (unbroken)? Were all container labels complete (#, date, signed, pres., etc)? Did all container labels and tags agree with custody papers? Were VOA vials received? Was there any observable headspace present in any VOA vial? Was there a Trip Blank in this cooler? YESNO If multiple coolers, sequed certify that I unloaded the cooler and answered questions 7-14 (intial) On pres'd bottles, did pH test strips suggest preservation reached the correct pH level b. Did the bottle labels indicate that the correct preservatives were used Was residual chlorine present? Were custody papers properly filled out (ink, signed, etc)? Did you sign the custody papers in the appropriate place? Were correct containers used for the analysis requested? 	Ce Other None VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA
Cooling process: Ice-pack lce (direct contact) Dry i Ice-pack lce (direct contact) Ice-pack lce (directon) Ice-pack lce (directon) Ice-pack lce (directon	Ce Other None VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA



Login Sample Receipt Checklist

Client: Environmental Enterprise Group

Login Number: 5126 List Number: 1 Creator: Ford, Easton

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 490-5126-1

List Source: TestAmerica Nashville

ATTACHMENT A

NON-HAZARDOUS MANIFEST	r's US EPA ID No.	M	anifest Doc N	ю.	2. Page 1	of			
	Second and	a de			1		-		
. Generator's Mailing Address:	Generator's S	ite Address (If d	lifferent than ma	iling):	A. Manife	st Number			
ACAS, BEAUFORT	in caller a				W	MNA	00316	830	
EAUFORT, SC 29907					21.032	B. State	Generator's	ID	
. Generator's Phone 843-228-6461									
. Transporter 1 Company Name	6.	US EPA II	D Number			1. 19 1. 1			1000
EG, INC.	1997 Barriel					ransporter's l	AND ADDRESS OF TAXABLE		
. Transporter 2 Company Name	9	8. US EPA ID Number			D. Transp	orter's Phone	843-8	879-041	11
	0.	05 21 4 1	5 Number		E. State T	ransporter's l	D	THE FLO	Died
in a contract of the second second		L.		_	F. Transp	orter's Phone	Not.	an Kipers	
. Designated Facility Name and Site Address	10.	US EPA	ID Number					No.	
621 LOW COUNTRY ROAD					G. State F		042.0	07 45	12
IDGELAND, SC 29936			R CAR	-	H. State F	acility Phone	843-9	87-464	+3
	E E			Service Services		1.2			
1. Description of Waste Materials	De las	1	12 Cor No,	tainers Type	13. Total Quantity	14. Unit Wt./Vol.	I. M	isc. Comme	ents
. HEATING OIL TANKS FILLED WITH SANE)			. Abe	Sec. Mar			a series	
					1				3
WM Profile # 10265	5SC			72	C Carlos	1200	10000	-	
			1. 3.			and the state			
MINA D. CIL. H			The second	EST FCA		Anna I La Securita da			-
WM Profile #									
and a second second			1			SAL.			
WM Profile #	n ionis	Streep-	Mar Sta		- Carlos Carl	A Second	-		3
			Seren - w						
			1 au		1000	1.1.1			
WM Profile # Additional Descriptions for Materials Listed Abo	140	1. 511	K. Dispos	llocati	20	1 Page 1		-	
Additional Descriptions for Materials Listed Add	ve		K. Disposi	in Locatio					
			Cell				Level	1	-
5. Special Handling Instructions and Additional Inf	ormation	1	Grid	100	BARDA	cu dat	1277	0-1	T
UST'S FROM: 2)14	17 AlbA	tross	Y	121	BARRA	CUCA	4323	F15/	1
)1305 EAS/12 3/13	9 LAURA	1 BAY	15)4	14 1.	IdERE	RARY-	A CONTRACT		
urchase Order #	E	MERGENCY CO	NTACT / PHO	NE NO .:	and the second	/			
6. GENERATOR'S CERTIFICATE:									
hereby certify that the above-described materials a ccurately described, classified and packaged and a							ave been ful	ly and	
rinted Name	the second se	ature "On beha		Bion			Month	Day	
1 phat Sills	5.		1 H	IN I			100	1	1
7. Transporter 1 Acknowledgement of Receipt of Mane		ature 🖉	101				Month	Day	
PRATTSNAW	Sign	AVA	st			-	1 St	- /	1
8. Transporter 2 Acknowledgement of Receipt of M	Materials	7-1-1-1	1			AP	1 10		
Printed Name	Sign	ature	V _			1	Month	Day	
James Baldwin	4	ame	, Ka	la	un		10	1	1
9. Certificate of Final Treatment/Disposal						in S	Starting		
certify, on behalf of the above listed treatment fac	C. C		edge, the ab	ove-desc	ribed waste w	as managed i	n complianc	e with al	1
pplicable laws, regulations, permits and licenses or 0. Facility Owner or Operator: Certification of rece		the second second second second	overed by th	s manife	est.				
Printed Name		ature	- crea by th		- 1	1000	Month	Day	T
Toni Cabeld		Ton	i	ta	blu		10	1	1
									And in case of the local division of the loc

Appendix C Regulatory Correspondence





Catherine B. Templeton, Director *Propriating and protecting 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,

20m. The

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.

677 Camellia 890 Cobia 679 Camellia 892 Cobia 686 Camellia 900 Barracuda 690 Camellia 906 Barracuda 692 Abelia 911 Barracuda 700 Bluebell 912 Barracuda 704 Bluebell 917 Barracuda 705 Bluebell 918 Barracuda 705 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 7315 Bluebell 1079 Heather 7318 Bluebell 1079 Heather 7318 Bluebell 1173 Bobwhite 734 Bluebell 1122 Iris 735 Althea 1230 Cardinal 738 Laurel Bay 1221 Cardinal 807 Azalea 1248 Dove 814 Azalea 1242 Dove 814 Azalea 1262 Dove 820 Azalea 1262 Dove 831 Azalea 1262 Dove	674 Camellia	880 Cobia
679 Camellia 892 Cobia 686 Camellia 900 Barracuda 690 Abelia 901 Barracuda 698 Abelia 911 Barracuda 700 Bluebell 912 Barracuda 704 Bluebell 917 Barracuda 705 Bluebell 919 Barracuda 708 Bluebell 919 Barracuda 708 Bluebell 928 Albacore 710 Bluebell 1024 Foxglove 711 Bluebell 1028 Foxglove 714 Bluebell 1028 Foxglove 715 Bluebell 1038 Iris 726 Bluebell 1038 Iris 726 Bluebell 1079 Heather 731 Bluebell 1122 Iris 734 Bluebell 1122 Iris 734 Bluebell 1122 Iris 734 Althea 1136 Iris 734 Althea 1238 Dove 814 Azalea 1242 Dove 815 Azalea 1242 Dove 815 Azalea 1242 Dove 818 Azalea 1262 Dove 821 Azalea 1262 Dove 821 Azalea 1262 Dove 832 Azalea		
686 Camellia 900 Barracuda 690 Camellia 906 Barracuda 698 Abelia 911 Barracuda 700 Bluebell 912 Barracuda 704 Bluebell 917 Barracuda 705 Bluebell 919 Barracuda 705 Bluebell 928 Albacore 710 Bluebell 1024 Foxglove 711 Bluebell 1028 Foxglove 714 Bluebell 1029 Foxglove 715 Bluebell 1038 Iris 726 Bluebell 1038 Iris 726 Bluebell 1038 Iris 726 Bluebell 1079 Heather 731 Bluebell 1079 Heather 731 Bluebell 1103 Iris 734 Bluebell 1120 Iris 734 Bluebell 1120 Iris 734 Bluebell 1122 Iris 735 Althea 1136 Iris 734 Althea 1200 Cardinal 778 Laurel Bay 1221 Cardinal 807 Azalea 1242 Dove 814 Azalea 1242 Dove 813 Azalea 1262 Dove 821 Azalea 1262 Dove 831 Az		
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 714 Bluebell 1029 Foxglove 715 Bluebell 1028 Foxglove 714 Bluebell 1029 Foxglove 715 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 1242 Dove 814 Azalea 1242 Dove 815 Azalea 1262 Dove 821 Azalea 1262 Dove		
698 Abelia911 Barracuda700 Bluebell912 Barracuda704 Bluebell917 Barracuda705 Bluebell919 Barracuda708 Bluebell928 Albacore710 Bluebell1024 Foxglove711 Bluebell1028 Foxglove714 Bluebell1029 Foxglove715 Bluebell1038 Iris726 Bluebell1049 Gardenia727 Bluebell1079 Heather731 Bluebell1103 Iris734 Bluebell1122 Iris734 Bluebell1123 Iris734 Bluebell1122 Iris734 Bluebell1221 Cardinal737 Althea1230 Cardinal738 Laurel Bay1221 Cardinal807 Azalea1242 Dove814 Azalea1242 Dove818 Azalea1262 Dove820 Azalea1262 Dove831 Azalea1265 Dove832 Azalea1298 Eagle835 Azalea1300 Eagle835 Azalea1300 Eagle835 Azalea1304 Eagle853 Dolphin1315 Albatross874 Cobia1320 Albatross		
700 Bluebell912 Barracuda704 Bluebell917 Barracuda705 Bluebell919 Barracuda708 Bluebell928 Albacore710 Bluebell1024 Foxglove711 Bluebell1028 Foxglove714 Bluebell1029 Foxglove714 Bluebell1029 Foxglove715 Bluebell1038 Iris726 Bluebell1049 Gardenia728 Bluebell1079 Heather731 Bluebell1103 Iris734 Bluebell1122 Iris759 Althea1136 Iris761 Althea1173 Bobwhite773 Althea1200 Cardinal774 Alaea1221 Cardinal807 Azalea1242 Dove814 Azalea1242 Dove814 Azalea1262 Dove821 Azalea1262 Dove831 Azalea1267 Dove832 Azalea1288 Eagle835 Azalea1300 Eagle835 Azalea1303 Eagle835 Azalea1304 Eagle835 Dolphin1315 Albatross849 Cobia1316 Albatross874 Cobia1320 Albatross		
704 Bluebell 917 Barracuda 705 Bluebell 919 Barracuda 708 Bluebell 928 Albacore 710 Bluebell 1024 Foxglove 711 Bluebell 1028 Foxglove 714 Bluebell 1028 Foxglove 714 Bluebell 1028 Foxglove 715 Bluebell 1038 Iris 726 Bluebell 1038 Iris 726 Bluebell 1049 Gardenia 728 Bluebell 1079 Heather 731 Bluebell 1103 Iris 734 Bluebell 1103 Iris 734 Bluebell 1122 Iris 734 Bluebell 1122 Iris 759 Althea 1136 Iris 761 Althea 1173 Bobwhite 773 Althea 1220 Cardinal 778 Laurel Bay 1221 Cardinal 807 Azalea 1242 Dove 814 Azalea 1242 Dove 818 Azalea 1262 Dove 820 Azalea 1265 Dove 821 Azalea 1265 Dove 831 Azalea 1298 Eagle 834 Azalea 1298 Eagle 835 Azalea 1300 Eagle 834 Azalea 1303 Eagle		
705 Bluebell919 Barracuda708 Bluebell928 Albacore710 Bluebell1024 Foxglove711 Bluebell1028 Foxglove714 Bluebell1029 Foxglove715 Bluebell1038 Iris726 Bluebell1049 Gardenia728 Bluebell1079 Heather731 Bluebell1103 Iris734 Bluebell1103 Iris734 Bluebell1103 Iris734 Bluebell1122 Iris759 Althea1136 Iris761 Althea1173 Bobwhite773 Althea1200 Cardinal778 Alazela1238 Dove814 Azalea1241 Dove815 Azalea1242 Dove818 Azalea1265 Dove821 Azalea1265 Dove831 Azalea1267 Dove832 Azalea1288 Eagle834 Azalea1298 Eagle834 Azalea1300 Eagle835 Dolphin1304 Eagle853 Dolphin1316 Albatross869 Cobia1320 Albatross874 Cobia1320 Albatross		
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 1049 Gardenia 728 Bluebell 1079 Heather 731 Bluebell 1103 Iris 734 Bluebell 1122 Iris 759 Althea 1200 Cardinal 778 Laurel Bay 1221 Cardinal 807 Azalea 1241 Dove 814 Azalea 1242 Dove 818 Azalea 1242 Dove 820 Azalea 1262 Dove 821 Azalea 1267 Dove 831 Azalea 1267 Dove 832 Azalea 1298 Eagle 834 Azalea 1298 Eagle 835 Azalea 1300 Eagle 835 Azalea		
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 1103 Iris 734 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 1262 Dove 820 Azalea 1262 Dove 831 Azalea 1267 Dove 832 Azalea 1298 Eagle 834 Azalea 1300 Eagle 835 Azalea 1300 Eagle 835 Azalea 1303 Eagle 835 Azalea 1303 Eagle 835 Azalea 1303 Eagle 835 Azalea 1303 Eagle 835 Azalea 1304 Eagle		
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 1103 Iris 734 Bluebell 1122 Iris 735 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 1262 Dove 820 Azalea 1265 Dove 831 Azalea 1289 Eagle 834 Azalea 1298 Eagle 835 Azalea 1300 Eagle 853 Dolphin 1315 Albatross		
714 Bluebell 1029 Foxglove 715 Bluebell 1038 Iris 726 Bluebell 1049 Gardenia 728 Bluebell 1079 Heather 731 Bluebell 1103 Iris 734 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 1242 Dove 814 Azalea 1242 Dove 818 Azalea 1242 Dove 820 Azalea 1262 Dove 821 Azalea 1265 Dove 831 Azalea 1267 Dove 832 Azalea 1298 Eagle 834 Azalea 1300 Eagle 834 Azalea 1300 Eagle 835 Azalea 1300 Eagle 835 Azalea 1300 Eagle 835 Azalea 1304 Eagle 835 Dolphin 1315 Albatross 858 Dolphin 1316 Albatross 869 Cobia 13120 Albatross		1024 Foxglove
715 Bluebell 1038 Iris 726 Bluebell 1049 Gardenia 728 Bluebell 1079 Heather 731 Bluebell 1103 Iris 734 Bluebell 1122 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 1242 Dove 820 Azalea 1265 Dove 831 Azalea 1267 Dove 832 Azalea 1289 Eagle 833 Azalea 1298 Eagle 834 Azalea 1209 Eagle 835 Azalea 1300 Eagle 834 Azalea 1300 Eagle 835 Azalea 1303 Eagle 835 Dolphin 1304 Eagle 836 Dolphin 1316 Albatross 836 Ocbia 1316 Albatross 837 4 Cobia 1320 Albatross	711 Bluebell	1028 Foxglove
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 1262 Dove 820 Azalea 1265 Dove 831 Azalea 1267 Dove 833 Azalea 1298 Eagle 834 Azalea 1298 Eagle 835 Azalea 1300 Eagle 835 Azalea 1300 Eagle 841 Azalea 1303 Eagle 835 Azalea 1304 Eagle 835 Azalea 1304 Eagle 835 Dolphin 1315 Albatross 840 Eagle 1316 Albatross 840 Eagle 1316 Albatross		1029 Foxglove
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 1242 Dove 820 Azalea 1262 Dove 821 Azalea 1265 Dove 831 Azalea 1267 Dove 832 Azalea 1298 Eagle 834 Azalea 1300 Eagle 835 Azalea 1300 Eagle 835 Azalea 1300 Eagle 841 Azalea 1300 Eagle 835 Azalea 1300 Eagle 835 Azalea 1300 Eagle 835 Azalea 1303 Eagle 858 Dolphin 1315 Albatross 858 Dolphin 1316 Albatross 859 Cobia 13120 Albatross	715 Bluebell	1038 Iris
731 Bluebell1103 Iris734 Bluebell1122 Iris759 Althea1136 Iris761 Althea1173 Bobwhite773 Althea1200 Cardinal773 Althea1200 Cardinal778 Laurel Bay1221 Cardinal807 Azalea1238 Dove814 Azalea1241 Dove815 Azalea1242 Dove818 Azalea1262 Dove820 Azalea1265 Dove831 Azalea1267 Dove832 Azalea1289 Eagle834 Azalea1300 Eagle835 Azalea1300 Eagle841 Azalea1303 Eagle853 Dolphin1315 Albatross859 Cobia1316 Albatross874 Cobia1320 Albatross	726 Bluebell	1049 Gardenia
734 Bluebell1122 Iris759 Althea1136 Iris761 Althea1173 Bobwhite773 Althea1200 Cardinal773 Althea1200 Cardinal778 Laurel Bay1221 Cardinal807 Azalea1238 Dove814 Azalea1241 Dove815 Azalea1242 Dove818 Azalea1248 Dove820 Azalea1265 Dove831 Azalea1267 Dove831 Azalea1289 Eagle834 Azalea1298 Eagle835 Azalea1300 Eagle841 Azalea1303 Eagle853 Dolphin1315 Albatross859 Cobia1316 Albatross874 Cobia1320 Albatross	728 Bluebell	1079 Heather
759 Althea 1136 Iris 761 Althea 1173 Bobwhite 773 Althea 1200 Cardinal 773 Althea 1200 Cardinal 778 Laurel Bay 1221 Cardinal 807 Azalea 1238 Dove 814 Azalea 1241 Dove 815 Azalea 1242 Dove 818 Azalea 1242 Dove 820 Azalea 1262 Dove 821 Azalea 1265 Dove 831 Azalea 1267 Dove 832 Azalea 1298 Eagle 834 Azalea 1300 Eagle 834 Azalea 1300 Eagle 835 Azalea 1300 Eagle 836 Dolphin 1315 Albatross 869 Cobia 1316 Albatross 874 Cobia 1320 Albatross	731 Bluebell	1103 Iris
761 Althea1173 Bobwhite773 Althea1200 Cardinal778 Laurel Bay1221 Cardinal807 Azalea1238 Dove814 Azalea1241 Dove815 Azalea1242 Dove818 Azalea1242 Dove818 Azalea1242 Dove818 Azalea1262 Dove820 Azalea1265 Dove831 Azalea1267 Dove832 Azalea1289 Eagle834 Azalea1298 Eagle835 Azalea1300 Eagle841 Azalea1303 Eagle853 Dolphin1315 Albatross869 Cobia1320 Albatross874 Cobia1320 Albatross	734 Bluebell	1122 Iris
773 Althea1200 Cardinal778 Laurel Bay1221 Cardinal807 Azalea1238 Dove814 Azalea1241 Dove815 Azalea1242 Dove818 Azalea1242 Dove820 Azalea1262 Dove821 Azalea1265 Dove831 Azalea1267 Dove832 Azalea1289 Eagle834 Azalea1300 Eagle835 Azalea1300 Eagle841 Azalea1303 Eagle853 Dolphin1314 Albatross869 Cobia1316 Albatross874 Cobia1320 Albatross	759 Althea	1136 Iris
778 Laurel Bay 1221 Cardinal 807 Azalea 1238 Dove 814 Azalea 1241 Dove 815 Azalea 1242 Dove 818 Azalea 1242 Dove 818 Azalea 1242 Dove 820 Azalea 1262 Dove 821 Azalea 1265 Dove 831 Azalea 1267 Dove 832 Azalea 1298 Eagle 834 Azalea 1298 Eagle 835 Azalea 1300 Eagle 841 Azalea 1303 Eagle 853 Dolphin 1304 Eagle 858 Dolphin 1315 Albatross 869 Cobia 1320 Albatross 874 Cobia 1320 Albatross	761 Althea	1173 Bobwhite
807 Azalea 1238 Dove 814 Azalea 1241 Dove 815 Azalea 1242 Dove 818 Azalea 1242 Dove 818 Azalea 1248 Dove 820 Azalea 1262 Dove 821 Azalea 1265 Dove 831 Azalea 1267 Dove 832 Azalea 1267 Dove 834 Azalea 1267 Dove 835 Azalea 1289 Eagle 835 Azalea 1300 Eagle 841 Azalea 1303 Eagle 853 Dolphin 1315 Albatross 869 Cobia 1316 Albatross 874 Cobia 1320 Albatross	773 Althea	1200 Cardinal
814 Azalea1241 Dove815 Azalea1242 Dove818 Azalea1248 Dove818 Azalea1248 Dove820 Azalea1262 Dove821 Azalea1265 Dove831 Azalea1267 Dove832 Azalea1289 Eagle834 Azalea1298 Eagle835 Azalea1300 Eagle841 Azalea1303 Eagle853 Dolphin1315 Albatross869 Cobia1320 Albatross874 Cobia1320 Albatross	778 Laurel Bay	1221 Cardinal
815 Azalea1242 Dove818 Azalea1248 Dove820 Azalea1262 Dove821 Azalea1265 Dove831 Azalea1267 Dove832 Azalea1289 Eagle834 Azalea1298 Eagle835 Azalea1300 Eagle841 Azalea1303 Eagle853 Dolphin1315 Albatross869 Cobia1320 Albatross874 Cobia1320 Albatross	807 Azalea	1238 Dove
818 Azalea1248 Dove820 Azalea1262 Dove821 Azalea1265 Dove831 Azalea1267 Dove832 Azalea1289 Eagle834 Azalea1298 Eagle835 Azalea1300 Eagle841 Azalea1303 Eagle853 Dolphin1304 Eagle858 Dolphin1315 Albatross869 Cobia1320 Albatross874 Cobia1320 Albatross	814 Azalea	1241 Dove
820 Azalea1262 Dove821 Azalea1265 Dove831 Azalea1267 Dove832 Azalea1289 Eagle834 Azalea1298 Eagle835 Azalea1300 Eagle841 Azalea1303 Eagle853 Dolphin1304 Eagle858 Dolphin1315 Albatross869 Cobia1320 Albatross874 Cobia1320 Albatross	815 Azalea	1242 Dove
821 Azalea1265 Dove831 Azalea1267 Dove832 Azalea1289 Eagle834 Azalea1298 Eagle835 Azalea1300 Eagle841 Azalea1303 Eagle853 Dolphin1304 Eagle858 Dolphin1315 Albatross869 Cobia1320 Albatross874 Cobia1320 Albatross	818 Azalea	1248 Dove
831 Azalea1267 Dove832 Azalea1289 Eagle834 Azalea1298 Eagle835 Azalea1300 Eagle841 Azalea1303 Eagle853 Dolphin1304 Eagle858 Dolphin1315 Albatross869 Cobia1316 Albatross874 Cobia1320 Albatross	820 Azalea	1262 Dove
832 Azalea1289 Eagle834 Azalea1298 Eagle835 Azalea1300 Eagle841 Azalea1303 Eagle853 Dolphin1304 Eagle858 Dolphin1315 Albatross869 Cobia1316 Albatross874 Cobia1320 Albatross	821 Azalea	1265 Dove
834 Azalea1298 Eagle835 Azalea1300 Eagle841 Azalea1303 Eagle853 Dolphin1304 Eagle858 Dolphin1315 Albatross869 Cobia1316 Albatross874 Cobia1320 Albatross	831 Azalea	1267 Dove
835 Azalea1300 Eagle841 Azalea1303 Eagle853 Dolphin1304 Eagle858 Dolphin1315 Albatross869 Cobia1316 Albatross874 Cobia1320 Albatross	832 Azalea	1289 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	834 Azalea	1298 Eagle
841 Azalea 1303 Eagle 853 Dolphin 1304 Eagle 858 Dolphin 1315 Albatross 869 Cobia 1316 Albatross 874 Cobia 1320 Albatross	835 Azalea	
853 Dolphin1304 Eagle858 Dolphin1315 Albatross869 Cobia1316 Albatross874 Cobia1320 Albatross		
858 Dolphin1315 Albatross869 Cobia1316 Albatross874 Cobia1320 Albatross		
869 Cobia1316 Albatross874 Cobia1320 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	