SUMMARY REPORT
619 WEST CARDINAL LANE (FORMERLY 1458 WEST CARDINAL LANE)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC

Revision: 0 Prepared for:

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

and



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

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Prepared by:



CDM - AECOM Multimedia Joint Venture 10560 Arrowhead Drive, Suite 500 Fairfax, Virginia 22030

Contract Number: N62470-14-D-9016

CTO WE52

**JUNE 2021** 



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### List of Acronyms

bgs below ground surface

BTEX benzene, toluene, ethylbenzene, and xylenes

CTO Contract Task Order

COPC constituents of potential concern

IDIQ Indefinite Delivery, Indefinite Quantity

IGWA Initial Groundwater Assessment

JV Joint Venture

LBMH Laurel Bay Military Housing MCAS Marine Corps Air Station

NAVFAC Mid-Lant Naval Facilities Engineering Command Mid-Atlantic

NFA No Further Action

PAH polynuclear aromatic hydrocarbon

QAPP Quality Assurance Program Plan

RBSL risk-based screening level

SCDHEC South Carolina Department of Health and Environmental Control

Site LBMH area at MCAS Beaufort, South Carolina

UST underground storage tank

VISL vapor intrusion screening level



#### 1.0 INTRODUCTION

The CDM - AECOM Multimedia Joint Venture (JV) was contracted by the Naval Facilities Engineering Command, Mid-Atlantic (NAVFAC Mid-Lant) to provide reporting services for the heating oil underground storage tanks (USTs) located in Laurel Bay Military Housing (LBMH) area at the Marine Corps Air Station (MCAS) Beaufort, South Carolina (Site). This work has been awarded under Contract Task Order (CTO) WE52 of the Indefinite Delivery, Indefinite Quantity (IDIQ) Multimedia Environmental Compliance Contract (Contract No. N62470-14-D-9016).

As of January 2014, the LBMH addresses were re-numbered to comply with the E-911 emergency response addressing system; however, in order to remain consistent with historical sampling and reporting for LBMH area, the residences will continue to be referenced with their original address numbers in sample nomenclature and reporting documents.

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 619 West Cardinal Lane (Formerly 1458 West Cardinal Lane). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

### 1.1 Background Information

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



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

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

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

### 1.2 UST Removal and Assessment Process

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

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

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



*Division* (SCDHEC, 2016), the soil screening levels consists of SCDHEC risk-based screening levels (RBSLs). It should be noted that the RBSLs for select PAHs were revised in Revision 2.0 of the QAPP (SCDHEC, 2013) and were revised again in Revision 3.0 (SCDHEC, 2015). The screening levels used for evaluation at each site were those levels that were in effect at the time of reporting and review by SCDHEC.

The results of the soil sampling at each former UST location were used to determine if a potential for groundwater contamination exists (i.e., soil results greater than RBSLs) and subsequently to select properties for follow-up initial groundwater assessment (IGWA) sampling. The results of the IGWA sampling (if necessary) are used to determine the presence or absence of the aforementioned COPCs in groundwater and identify whether former UST locations will require additional delineation of COPCs in groundwater. In order to delineate the extent of impact to groundwater, permanent wells are installed and a sampling program is established for those former UST locations where IGWA sampling has indicated the presence of COPCs in excess of the SCDHEC RBSLs for groundwater. Groundwater analytical results are also compared to the site specific groundwater vapor intrusion screening levels (VISLs) to evaluate the potential for vapor intrusion and the necessity for an investigation associated with this media. A multi-media investigation selection process tree, applicable to the LBMH UST investigations, is presented as Appendix A.

### 2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 619 West Cardinal Lane (Formerly 1458 West Cardinal Lane). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1458 West Cardinal Lane* (MCAS Beaufort, 2013). The UST Assessment Report is provided in Appendix B.

### 2.1 UST Removal and Soil Sampling

On April 23, 2013, a single 280 gallon heating oil UST was removed from the back yard adjacent to the patio area at 619 West Cardinal Lane (Formerly 1458 West Cardinal Lane). 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 (SCDHEC, 2017) and assessment guidelines.

### 2.2 Soil Analytical Results

A summary of the laboratory analytical results and SCDHEC RBSLs is presented in Table 1. A copy of the laboratory analytical data report is included in the UST Assessment Report presented in Appendix B. The laboratory analytical data report includes the soil results for the additional PAHs that were analyzed, but do not have associated RBSLs.

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 619 West Cardinal Lane (Formerly 1458 West Cardinal Lane) 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 619 West Cardinal Lane (Formerly 1458 West Cardinal Lane). This NFA determination was obtained in a letter dated March 31, 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 – 1458 West Cardinal Lane, Laurel Bay Military Housing Area, October 2013.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2013. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division, *Revision 2.0*, April 2013.



- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2015. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division, *Revision 3.0*, May 2015.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2016. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division, *Revision 3.1*, February 2016.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2017. *R.61-92, Part 280, Underground Storage Tank Control Regulations*, March 2017.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2018. *Underground Storage Tank Assessment Instructions for Permanent Closure and Change-In-Service*, March 2018.

### **Table**



#### Table 1

### Laboratory Analytical Results - Soil 619 West Cardinal Lane (Formerly 1458 West Cardinal Lane)

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

Constituent	SCDHEC RBSLs (1)	Results Sample Collected 04/23/13		
Volatile Organic Compounds Analyzed	by EPA Method 8260B (mg/kg)			
Benzene	0.003	ND		
Ethylbenzene	1.15	ND		
Naphthalene	0.036	ND		
Toluene	0.627	ND		
Xylenes, Total	13.01	ND		
Semivolatile Organic Compounds Analy	zed 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:**

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

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

## Appendix A Multi-Media Selection Process for LBMH





**Appendix A - Multi-Media Selection Process for LBMH** 

# Appendix B UST Assessment Report



### Attachment 1

### South Carolina Department of Health and Environmental Control (SCDHEC)

### Underground Storage Tank (UST) Assessment Report

Date Received
State Use Only

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

I. OWNERSHIP OF UST (S)

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

### II. SITE IDENTIFICATION AND LOCATION

Permit I.D. #	
Laurel Bay Milita:	ry Housing Area, Marine Corps Air Station, Beaufort, SC
Facility Name or Company	Site Identifier
1458 Cardinal Lan	e, Laurel Bay Military Housing Area
Street Address or State Roa	d (as applicable)
Beaufort,	Beaufort
City	County

Attachment 2

### III. INSURANCE INFORMATION

	Insuran	nce Statement
qualify to receive state monies t	o pay for appropriate and, written confirmate	at Permit ID Number may site rehabilitation activities. Before participation is attion of the existence or non-existence of an environmental ompleted.
Is there now, or has there UST release? YES		nce policy or other financial mechanism that covers this one)
If you answered	YES to the above que	estion, please complete the following information:
M	ly policy provider is:	
T	he policy deductible i	is:
T	he policy limit is:	.5.
		ude a copy of the policy with this report.
I DO / DO NOT wish		SUPERB Program. (Circle one.)
V. (	CERTIFICATION	(To be signed by the UST owner)
I certify that I have personall attached documents; and tha information, I believe that the	y examined and am t based on my inqu submitted informat	familiar with the information submitted in this and all uiry of those individuals responsible for obtaining this tion is true, accurate, and complete.
Name (Type or print.)	-	
Signature		
To be completed by Not	ary Public:	
Sworn before me this	day of	, 20
(Name)		
Notary Public for the state of	commissioned outsid	de South Carolina

VI. UST INFORMATION	1458 Cardinal
Product(ex. Gas, Kerosene)	Heating oil
Capacity(ex. 1k, 2k)	280 gal
Age	Late 1950s
Construction Material(ex. Steel, FRP)	Steel
Month/Year of Last Use	Mid 80s
Depth (ft.) To Base of Tank	5'8"
Spill Prevention Equipment Y/N	No
Overfill Prevention Equipment Y/N	No
Method of Closure Removed/Filled	Removed
Date Tanks Removed/Filled	4/23/2013
Visible Corrosion or Pitting Y/N	Yes
Visible Holes Y/N	Yes
Method of disposal for any USTs removed from UST 1458Cardinal was removed	
at a Subtitle "D" landfill. S	ee Attachment "A".
disposal manifests)	udges, or wastewaters removed from the USTs (att
The state of the s	

### VII. PIPING INFORMATION

		Cardinal	
		Steel	
onstruction Ma	terial(ex. Steel, FRP)	& Copper	
Distance from US	ST to Dispenser	N/A	
lumber of Dispe	ensers	N/A	
ype of System I	Pressure or Suction	Suction	
as Piping Remo	oved from the Ground? Y/N	No	
isible Corrosion	n or Pitting Y/N	Yes	
isible Holes Y	/N	No	
ne		Late 1950s	
9		denseibe the leastion and exter	nt for each pir
any corrosion.	pitting, or holes were observed	describe the location and exter	
	pitting, or holes were observed		
Corrosion	pitting, or holes were observed and pitting were fou pper supply and retur	nd on the surface of	
Corrosion	and pitting were fou	nd on the surface of	
Corrosion	and pitting were fou	nd on the surface of	
Corrosion	and pitting were fou	nd on the surface of	
Corrosion pipe. Cop	and pitting were fou pper supply and retur	nd on the surface of n lines were sound.	the steel
Corrosion pipe. Cop	and pitting were fou pper supply and retur	nd on the surface of n lines were sound.  RIPTION AND HISTOR constructed of single	the steel  Y  wall ste
Corrosion pipe. Cop  The USTs a and former	and pitting were fou pper supply and retur	nd on the surface of n lines were sound.  RIPTION AND HISTOR constructed of single for heating. These U	Y e wall ste

### IX. SITE CONDITIONS

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

### X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA#
1458 Cardinal	Excav at fill end	Soil	Sandy	5'8"	4/23/13 1530 hrs	P. Shaw	
-	-						-
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18			_				
19							
20							

<sup>\* =</sup> 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.

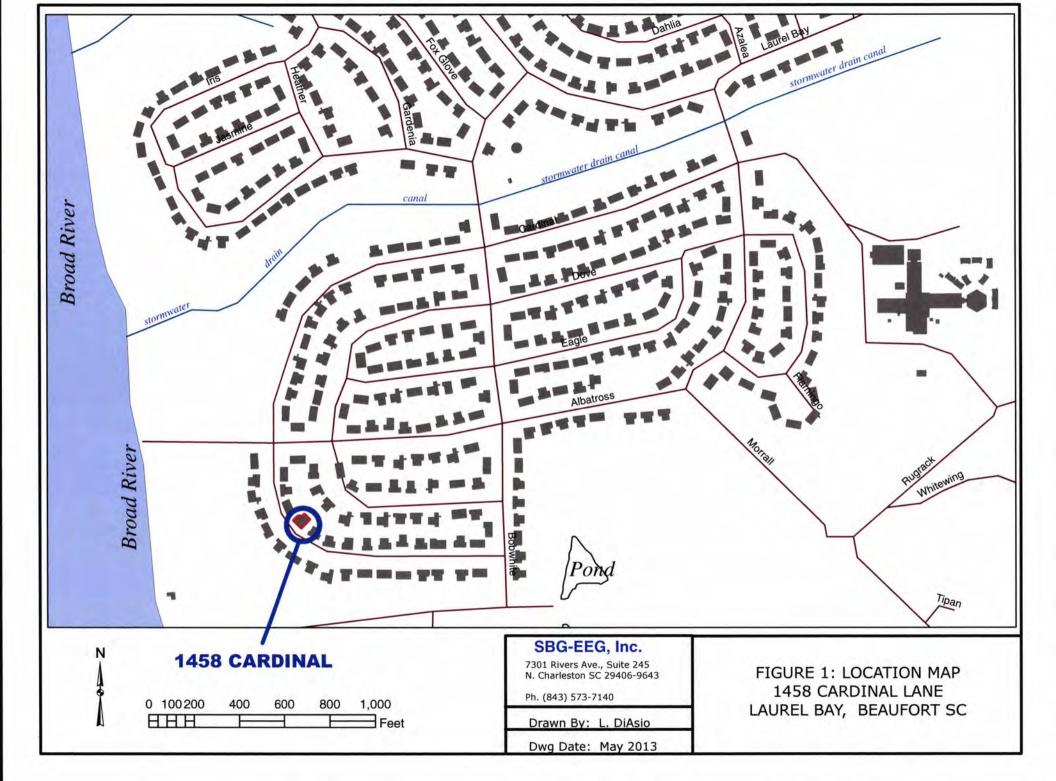
### XII. RECEPTORS

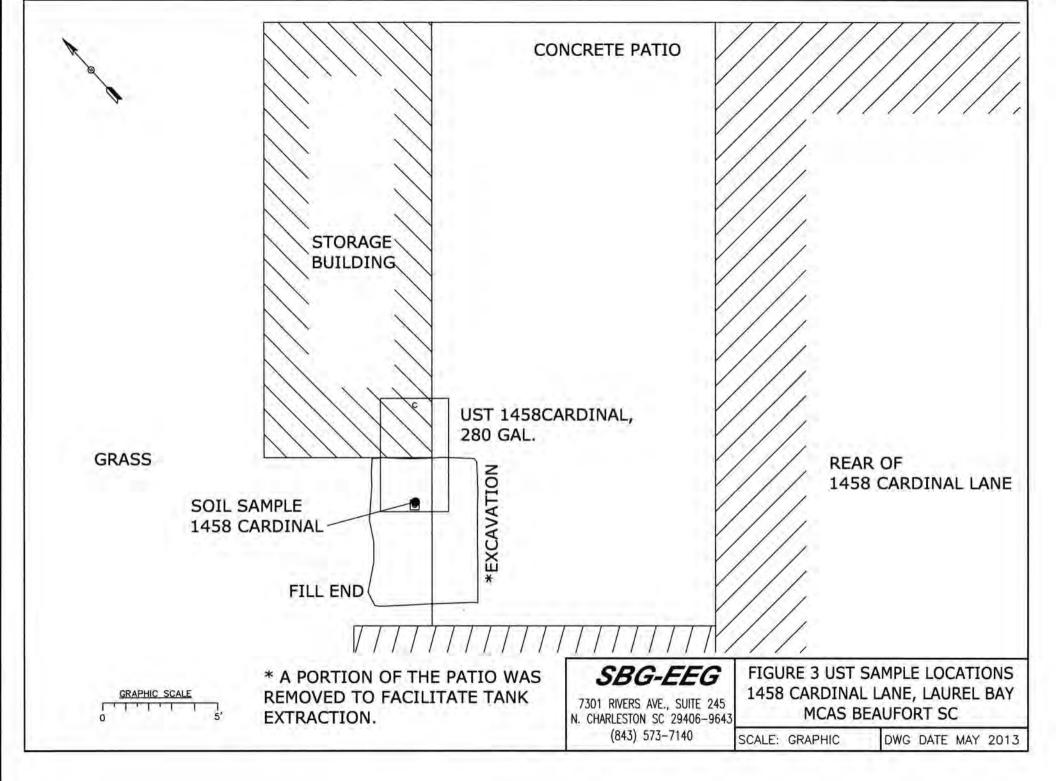
		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?  *Pond	*X	
	If yes, indicate type of receptor, distance, and direction on site map.		
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		Х
	If yes, indicate type of well, distance, and direction on site map.		
C.	Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?		х
	If yes, indicate type of structure, distance, and direction on site map.		
D.	Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination?  *Sewer, water, electricity	-	
	cable, fiber optic & geo If yes, indicate the type of utility, distance, and direction on the site map.	therm	al
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 1458Cardinal.



Picture 2: UST 1458Cardinal 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	1458Cardinal			
Benzene	ND			
Toluene	ND			
Ethylbenzene	ND			
Xylenes	ND			
Naphthalene	ND			
Benzo (a) anthracene	ND			
Benzo (b) fluoranthene	ND		/ V	
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				
TPH (EPA 3550)				

SUMMARY OF ANALYSIS RESULTS (cont'd)

Enter the ground water analytical data for each sample for all CoC in the table below. If free product is present, indicate the measured thickness to the nearest 0.01 feet.

CoC	RBSL (µg/l)	W-1	W-2	W -3	W -4
Free Product Thickness	None				
Benzene	5	-			
Toluene	1,000				
Ethylbenzene	700				
Xylenes	10,000				
Total BTEX	N/A				
МТВЕ	40				
Naphthalene	25				
Benzo (a) anthracene	10				
Benzo (b) flouranthene	10				
Benzo (k) flouranthene	10				
Chrysene	10			L Hi	
Dibenz (a, h) anthracene	10				
EDB	.05			-11	
1,2-DCA	5				
Lead	Site specific		-		

### XV. ANALYTICAL RESULTS

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

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

# **TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

### ANALYTICAL REPORT

TestAmerica Job ID: 490-25526-1

Client Project/Site: Laurel Bay Housing Project

5/13/2013 5:12:06 PM

Ken Hayes, Project Manager I ken.hayes@testamericainc.com

... LINKS .....

**Review your project** results through

Total Access

Have a Question?



www.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.

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

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### **Sample Summary**

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

TestAmerica Job ID: 490-25526-1

2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-25526-1	1458 Cardinal	Soil	04/23/13 15:30	05/01/13 08:00
490-25526-2	1335 Albatross	Soil	04/24/13 14:00	05/01/13 08:00
490-25526-3	1438 Dove-1	Soil	04/22/13 12:15	05/01/13 08:00
490-25526-4	1188 Bobwhite	Soil	04/22/13 15:45	05/01/13 08:00

D/V

5

6

7

8

40

13

### **Case Narrative**

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-25526-1

-

Job ID: 490-25526-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-25526-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 5/1/2013 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6° C.

#### GC/MS VOA

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 76738.

No other analytical or quality issues were noted.

#### GC/MS Semi VOA

No analytical or quality issues were noted.

#### **Organic Prep**

Method(s) Moisture: The sample duplicate precision for the following sample associated with batch 76389 was outside control limits: (490-25521-1 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

No other analytical or quality issues were noted.

#### **VOA Prep**

No analytical or quality issues were noted.

TestAmerica Nashville 5/13/2013

### **Definitions/Glossary**

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-25526-1

2

#### Qualifiers

### GC/MS 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.						
n	Listed under the "D" column to designate that the result is reported on a dry weight basis						
%R	Percent Recovery						
CNE	Contains no Free Liquid						

%R Percent Recovery

CNF Contains no Free Liquid

DER Duplicate error ratio (normalized absolute difference)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial
DLC Decision level concentration
MDA Minimum detectable activity

EDI Estimated Detection Limit

EDL Estimated Detection Limit

MDC Minimum detectable concentration

MDL Method Detection Limit

ML Minimum Level (Dioxin)

ND Not detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC Quality Control
RER Relative error ratio

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

### **Client Sample Results**

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

Client Sample ID: 1458 Cardinal

**Percent Solids** 

TestAmerica Job ID: 490-25526-1

Lab Sample ID: 490-25526-1

Date Collected: 04/23/13 15:30 Matrix: Soil

Date Received: 05/01/13 08:00 Percent Solids: 74.7

Method: 8260B - Volatile Organic Compounds (GC/MS) Analyte Result Qualifier MDL Unit Prepared Analyzed Benzene ND 05/01/13 16:08 05/03/13 09:46 0.00242 0.000810 mg/Kg ND 05/01/13 16:08 05/03/13 09:46 Ethylbenzene 0.00242 0.000810 mg/Kg ND Naphthalene 0.00605 0.00206 mg/Kg 05/01/13 16:08 05/03/13 09:46 0.000895 mg/Kg Toluene ND 0.00242 05/01/13 16:08 05/03/13 09:46 Xylenes, Total ND 0.00605 0.000810 mg/Kg 05/01/13 16:08 05/03/13 09:46

Ayleries, Total	ND	0.00003	0.000010 Hig/Kg	05/01/15 10.00	03/03/13 09.40	
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99	70 - 130		05/01/13 16:08	05/03/13 09:46	1
4-Bromofluorobenzene (Surr)	104	70 - 130		05/01/13 16:08	05/03/13 09:46	1
Dibromofluoromethane (Surr)	106	70 - 130		05/01/13 16:08	05/03/13 09:46	1
Toluene-d8 (Surr)	94	70 - 130		05/01/13 16:08	05/03/13 09:46	1

Dibromofluoromethane (Surr)	106		70 - 130				05/01/13 16:08	05/03/13 09:46	1
Toluene-d8 (Surr)	94		70 - 130				05/01/13 16:08	05/03/13 09:46	1
Method: 8270D - Semivolatile	e Organic Compou	nds (GC/M	S)						
Analyte	A STATE OF THE PARTY OF THE PAR	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0884	0.0132	mg/Kg	\$75	05/02/13 06:40	05/02/13 23:41	1
Acenaphthylene	ND		0.0884	0.0119	mg/Kg	D	05/02/13 06:40	05/02/13 23:41	1
Anthracene	ND		0.0884	0.0119	mg/Kg	Ø	05/02/13 06:40	05/02/13 23:41	1
Benzo[a]anthracene	ND		0.0884	0.0198	mg/Kg	13	05/02/13 06:40	05/02/13 23:41	1
Benzo[a]pyrene	ND		0.0884	0.0158	mg/Kg	175	05/02/13 06:40	05/02/13 23:41	1
Benzo[b]fluoranthene	ND		0.0884	0.0158	mg/Kg	×	05/02/13 06:40	05/02/13 23:41	1
Benzo[g,h,i]perylene	ND		0.0884	0.0119	mg/Kg	30	05/02/13 06:40	05/02/13 23:41	-1
Benzo[k]fluoranthene	ND		0.0884	0.0185	mg/Kg	n	05/02/13 06:40	05/02/13 23:41	1
1-Methylnaphthalene	ND		0.0884	0.0185	mg/Kg	TI.	05/02/13 06:40	05/02/13 23:41	1
Pyrene	ND		0.0884	0.0158	mg/Kg	12	05/02/13 06:40	05/02/13 23:41	1
Phenanthrene	ND		0.0884	0.0119	mg/Kg	n	05/02/13 06:40	05/02/13 23:41	1
Chrysene	ND		0.0884	0.0119	mg/Kg	n	05/02/13 06:40	05/02/13 23:41	1
Dibenz(a,h)anthracene	ND		0.0884	0.00924	mg/Kg	13	05/02/13 06:40	05/02/13 23:41	1
Fluoranthene	ND		0.0884	0.0119	mg/Kg	n	05/02/13 06:40	05/02/13 23:41	1
Fluorene	ND		0.0884	0.0158	mg/Kg	ra.	05/02/13 06:40	05/02/13 23:41	1
Indeno[1,2,3-cd]pyrene	ND		0.0884	0.0132	mg/Kg	121	05/02/13 06:40	05/02/13 23:41	1
Naphthalene	ND		0.0884	0.0119	mg/Kg	307	05/02/13 06:40	05/02/13 23:41	1
2-Methylnaphthalene	ND		0.0884	0.0211	mg/Kg	12	05/02/13 06:40	05/02/13 23:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	59		29 - 120				05/02/13 06:40	05/02/13 23:41	1
Terphenyl-d14 (Surr)	81		13 - 120				05/02/13 06:40	05/02/13 23:41	1
Nitrobenzene-d5 (Surr)	62		27 - 120				05/02/13 06:40	05/02/13 23:41	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

05/01/13 14:20

0.10

75

0.10 %

### **Client Sample Results**

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

Client Sample ID: 1335 Albatross

Te -25526-1

Lab Sample ID: 490-25526-2

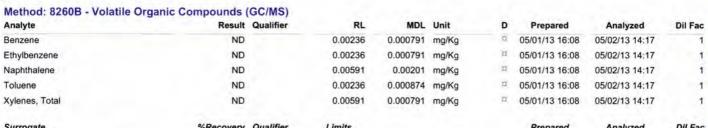
Matrix: Soil

Percent Solids: 88.4

estAmerica	Job	ID:	490







.,,		(7)772	 22.2.007.000	20,75,70	
Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97	70 - 130	05/01/13 16:08	05/02/13 14:17	1
4-Bromofluorobenzene (Surr)	101	70 - 130	05/01/13 16:08	05/02/13 14:17	1
Dibromofluoromethane (Surr)	103	70 - 130	05/01/13 16:08	05/02/13 14:17	1
Toluene-d8 (Surr)	92	70 - 130	05/01/13 16:08	05/02/13 14:17	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0743	0.0111	mg/Kg	\$2	05/02/13 06:40	05/03/13 00:04	1
Acenaphthylene	ND		0.0743	0.00998	mg/Kg	22	05/02/13 06:40	05/03/13 00:04	1
Anthracene	ND		0.0743	0.00998	mg/Kg	37.5	05/02/13 06:40	05/03/13 00:04	1
Benzo[a]anthracene	ND		0.0743	0.0166	mg/Kg	D	05/02/13 06:40	05/03/13 00:04	1
Benzo[a]pyrene	ND		0.0743	0.0133	mg/Kg	123	05/02/13 06:40	05/03/13 00:04	1
Benzo[b]fluoranthene	ND		0.0743	0.0133	mg/Kg	13	05/02/13 06:40	05/03/13 00:04	1
Benzo[g,h,i]perylene	ND		0.0743	0.00998	mg/Kg	O	05/02/13 06:40	05/03/13 00:04	1
Benzo[k]fluoranthene	ND		0.0743	0.0155	mg/Kg	225	05/02/13 06:40	05/03/13 00:04	- 1
1-Methylnaphthalene	ND		0.0743	0.0155	mg/Kg	22	05/02/13 06:40	05/03/13 00:04	1
Pyrene	ND		0.0743	0.0133	mg/Kg	D	05/02/13 06:40	05/03/13 00:04	1
Phenanthrene	ND		0.0743	0.00998	mg/Kg	128	05/02/13 06:40	05/03/13 00:04	1
Chrysene	ND		0.0743	0.00998	mg/Kg	11	05/02/13 06:40	05/03/13 00:04	1
Dibenz(a,h)anthracene	ND		0.0743	0.00776	mg/Kg	12	05/02/13 06:40	05/03/13 00:04	1
Fluoranthene	ND		0.0743	0.00998	mg/Kg	335	05/02/13 06:40	05/03/13 00:04	1
Fluorene	ND		0.0743	0.0133	mg/Kg	303	05/02/13 06:40	05/03/13 00:04	1
Indeno[1,2,3-cd]pyrene	ND		0.0743	0.0111	mg/Kg	102	05/02/13 06:40	05/03/13 00:04	1
Naphthalene	ND		0.0743	0.00998	mg/Kg	- 12	05/02/13 06:40	05/03/13 00:04	1
2-Methylnaphthalene	ND		0.0743	0.0177	mg/Kg	ū	05/02/13 06:40	05/03/13 00:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	/onecovery Qualifier	Lillins	riepareu	Allalyzeu	Dirac
2-Fluorobiphenyl (Surr)	72	29 - 120	05/02/13 06:40	05/03/13 00:04	1
Terphenyl-d14 (Surr)	88	13 - 120	05/02/13 06:40	05/03/13 00:04	1
Nitrobenzene-d5 (Surr)	73	27 - 120	05/02/13 06:40	05/03/13 00:04	1
O					

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88		0.10	0.10	%			05/01/13 14:20	1

### **Client Sample Results**

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-25526-1

Matrix: Soil

Lab Sample ID: 490-25526-3

Percent Solids: 81.8

### Client Sample ID: 1438 Dove-1

Date Collected: 04/22/13 12:15 Date Received: 05/01/13 08:00

Analyte

Percent Solids

Method: 8260B - Volatile Orga Analyte	THE R. LEWIS CO., LANSING, MICH. LANSING, MICH. 49, 1975.	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	2007	0.00219	0.000733		n	05/01/13 16:08	05/02/13 14:48	1
Ethylbenzene	ND		0.00219	0.000733	1.00	D	05/01/13 16:08	05/02/13 14:48	1
Naphthalene	0.00311	J	0.00547	0.00186	mg/Kg	0	05/01/13 16:08	05/02/13 14:48	1
Toluene	ND		0.00219	0.000810	mg/Kg	10	05/01/13 16:08	05/02/13 14:48	1
Xylenes, Total	0.00127	J	0.00547	0.000733	mg/Kg	n	05/01/13 16:08	05/02/13 14:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	94		70 - 130				05/01/13 16:08	05/02/13 14:48	1
4-Bromofluorobenzene (Surr)	128		70 - 130				05/01/13 16:08	05/02/13 14:48	1
Dibromofluoromethane (Surr)	101		70 - 130				05/01/13 16:08	05/02/13 14:48	1 19
Toluene-d8 (Surr)	99		70 - 130				05/01/13 16:08	05/02/13 14:48	1
Method: 8270D - Semivolatile	Organic Compou	nds (GC/MS	5)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0662	0.00988	mg/Kg	D	05/04/13 09:07	05/05/13 22:29	1
Acenaphthylene	0.0805		0.0662	0.00890	mg/Kg	n	05/04/13 09:07	05/05/13 22:29	1
Anthracene	ND		0.0662	0.00890	mg/Kg	12	05/04/13 09:07	05/05/13 22:29	1
Benzo[a]anthracene	ND		0.0662	0.0148	mg/Kg	13	05/04/13 09:07	05/05/13 22:29	1
Benzo[a]pyrene	ND		0.0662	0.0119	mg/Kg	3,2	05/04/13 09:07	05/05/13 22:29	1
Benzo[b]fluoranthene	ND		0.0662	0.0119	mg/Kg	13	05/04/13 09:07	05/05/13 22:29	1
Benzo[g,h,i]perylene	ND		0.0662	0.00890	mg/Kg	п	05/04/13 09:07	05/05/13 22:29	1
Benzo[k]fluoranthene	ND		0.0662	0.0138	mg/Kg	13	05/04/13 09:07	05/05/13 22:29	13
1-Methylnaphthalene	ND		0.0662	0.0138	mg/Kg	22	05/04/13 09:07	05/05/13 22:29	
Pyrene	ND		0.0662	0.0119	mg/Kg	127	05/04/13 09:07	05/05/13 22:29	1
Phenanthrene	ND		0.0662	0.00890	mg/Kg	372	05/04/13 09:07	05/05/13 22:29	1
Chrysene	ND		0.0662	0.00890	mg/Kg	375	05/04/13 09:07	05/05/13 22:29	1
Dibenz(a,h)anthracene	ND		0.0662	0.00692	mg/Kg	23	05/04/13 09:07	05/05/13 22:29	1
Fluoranthene	ND		0.0662	0.00890	mg/Kg	n	05/04/13 09:07	05/05/13 22:29	1
Fluorene	ND		0.0662	0.0119	mg/Kg	23	05/04/13 09:07	05/05/13 22:29	1
Indeno[1,2,3-cd]pyrene	ND		0.0662	0.00988	mg/Kg	23	05/04/13 09:07	05/05/13 22:29	1
Naphthalene	ND		0.0662	0.00890	mg/Kg	a	05/04/13 09:07	05/05/13 22:29	1
2-Methylnaphthalene	ND		0.0662	0.0158	mg/Kg	Ø	05/04/13 09:07	05/05/13 22:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	DII Fac
2-Fluorobiphenyl (Surr)	59		29 - 120				05/04/13 09:07	05/05/13 22:29	1
Terphenyl-d14 (Surr)	79		13 - 120				05/04/13 09:07	05/05/13 22:29	1
Nitrobenzene-d5 (Surr)	59		27 - 120				05/04/13 09:07	05/05/13 22:29	1
General Chemistry									
		O	-	-	I I with	-			DII F

Analyzed

05/01/13 14:20

Dil Fac

RL

0.10

RL Unit

0.10 %

Prepared

Result Qualifier

82

### **Client Sample Results**

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-25526-1

Client Sample ID: 1188 Bobwhite

Date Collected: 04/22/13 15:45 Date Received: 05/01/13 08:00

Percent Solids

Lab Sample ID: 490-25526-4

Matrix: Soil

Percent Solids: 80.9

Action of the Control		1.2	240	45.0			23.5	27.24
	Qualifier							Dil Fac
								1
						05/01/13 16:08		1
ND		0.00537	0.00183	mg/Kg	n	05/01/13 16:08	05/02/13 15:19	1
ND		0.00215	0.000795	mg/Kg	n	05/01/13 16:08	05/02/13 15:19	1
ND		0.00537	0.000720	mg/Kg	IX.	05/01/13 16:08	05/02/13 15:19	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
97		70 - 130				05/01/13 16:08	05/02/13 15:19	1
105		70 - 130				05/01/13 16:08	05/02/13 15:19	1
102		70 - 130				05/01/13 16:08	05/02/13 15:19	1
95		70 - 130				05/01/13 16:08	05/02/13 15:19	1
rganic Compou	nds (GC/MS	3)						
The second secon	The second second	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ND		0.0817	0.0122	mg/Kg	D	05/02/13 06:40	05/03/13 00:51	1
ND		0.0817	0.0110	mg/Kg	305	05/02/13 06:40	05/03/13 00:51	1
ND		0.0817	0.0110	mg/Kg	E	05/02/13 06:40	05/03/13 00:51	1
ND		0.0817	0.0183	mg/Kg	D	05/02/13 06:40	05/03/13 00:51	1
ND		0.0817	0.0146	mg/Kg	13	05/02/13 06:40	05/03/13 00:51	1
ND		0.0817	0.0146	mg/Kg	13	05/02/13 06:40	05/03/13 00:51	1
ND		0.0817	0.0110	mg/Kg	E	05/02/13 06:40	05/03/13 00:51	1
ND		0.0817	0.0171	mg/Kg	D	05/02/13 06:40	05/03/13 00:51	1
ND		0.0817	0.0171	mg/Kg	(3)	05/02/13 06:40	05/03/13 00:51	1
ND		0.0817	0.0146	mg/Kg	KE	05/02/13 06:40	05/03/13 00:51	1
ND		0.0817	0.0110	mg/Kg	KE	05/02/13 06:40	05/03/13 00:51	1
ND		0.0817	0.0110	mg/Kg	D	05/02/13 06:40	05/03/13 00:51	1
ND		0.0817	0.00854	mg/Kg	D	05/02/13 06:40	05/03/13 00:51	1
ND		0.0817	0.0110		D	05/02/13 06:40	05/03/13 00:51	1
ND		0.0817	0.0146	mg/Kg	12	05/02/13 06:40	05/03/13 00:51	1
ND		0.0817	0.0122	mg/Kg	DE	05/02/13 06:40	05/03/13 00:51	1
ND		0.0817	0.0110	mg/Kg	D	05/02/13 06:40	05/03/13 00:51	1
ND		0.0817	0.0195	mg/Kg	¤	05/02/13 06:40	05/03/13 00:51	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
71		29 - 120				05/02/13 06:40	05/03/13 00:51	1
86		13 - 120				05/02/13 06:40	05/03/13 00:51	1
72		27 - 120				05/02/13 06:40	05/03/13 00:51	1
200	Qualifier	RL	- 20	Unit	D	Prepared	Analyzed	Dil Fac
	Result ND ND ND %Recovery 97 105 102 95 Organic Compour Result ND	ND ND ND ND ND ND ND ND Organic Compounds (GC/MS Result Qualifier ND	Result   Qualifier   RL     ND	Result   Qualifier   RL   MDL	Result Qualifier   RL   MDL   Unit	Result   Qualifier   RL   MDL   Unit   D	Result   Qualifier   RL	Result   Qualifier   RL

05/01/13 14:20

0.10

0.10 %

81

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-25526-1

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

Lab Sample ID: 490-25538-A-4-D MS

Matrix: Solid

Analysis Batch: 76457

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

Prep Batch: 76425

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.00187		0.0330	0.03198		mg/Kg		91	31 - 143	
Ethylbenzene	ND		0.0330	0.02524		mg/Kg		77	23 - 161	
Naphthalene	0.00169	J	0.0330	0.03311		mg/Kg		95	10 - 176	
Toluene	ND		0.0330	0.02652		mg/Kg		80	30 - 155	
Xylenes, Total	ND		0.0989	0.07636		mg/Kg		77	25 - 162	

Limits

70 - 130

70 - 130

70 - 130

70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Lab	Sar	nple	ID:	490	-25538	3-A-4-E	MSD

Matrix: Solid

Toluene-d8 (Surr)

Surrogate

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Analysis Batch: 76457									Prep	Batch:	76425
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.00187		0.0332	0.03142		mg/Kg		89	31 - 143	2	50
Ethylbenzene	ND		0.0332	0.02538		mg/Kg		76	23 - 161	1	50
Naphthalene	0.00169	J	0.0332	0.02692		mg/Kg		76	10 - 176	21	50
Toluene	ND		0.0332	0.02573		mg/Kg		77	30 - 155	3	50
Xylenes, Total	ND		0.0997	0.07276		mg/Kg		73	25 - 162	5	50

MSD MSD

MS MS

%Recovery Qualifier

98

102

107

93

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	108		70 - 130
Toluene-d8 (Surr)	93		70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Lab Sample ID: MB 490-76457/6

Matrix: Solid

Analysis Batch: 76457

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			05/02/13 07:43	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			05/02/13 07:43	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			05/02/13 07:43	1
Toluene	ND		0.00200	0.000740	mg/Kg			05/02/13 07:43	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			05/02/13 07:43	1
		***							

Surrogate	%Recovery Qua	lifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100	70 - 130		05/02/13 07:43	1
4-Bromofluorobenzene (Surr)	102	70 - 130		05/02/13 07:43	1
Dibromofluoromethane (Surr)	106	70 - 130		05/02/13 07:43	1
Toluene-d8 (Surr)	96	70 - 130		05/02/13 07:43	1

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-25526-1

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

Lab Sample ID: LCS 490-76457/3

Matrix: Solid

Analysis Batch: 76457

Client	Sample	ID:	Lab	Control	Sample
			Dror	Type: 7	Total/NIA

	Spike	LUS	LUS				MREC.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0500	0.04698		mg/Kg		94	75 - 127	
Ethylbenzene	0.0500	0.04643		mg/Kg		93	80 - 134	
Naphthalene	0.0500	0.06576		mg/Kg		132	69 - 150	
Toluene	0.0500	0.04647		mg/Kg		93	80 - 132	
Xylenes, Total	0.150	0.1381		mg/Kg		92	80 - 137	

	LUS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
Toluene-d8 (Surr)	97		70 - 130
Toluene-d8 (Surr)	97		70 -

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 76457

Matrix: Solid

Lab Sample ID: LCSD 490-76457/4

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.04851		mg/Kg		97	75 - 127	3	50
Ethylbenzene	0.0500	0.04655		mg/Kg		93	80 - 134	0	50
Naphthalene	0.0500	0.07080		mg/Kg		142	69 - 150	7	50
Toluene	0.0500	0.04622		mg/Kg		92	80 - 132	1	50
Xylenes, Total	0.150	0.1391		mg/Kg		93	80 - 137	1	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: MB 490-76738/6

Matrix: Solid

Analysis Batch: 76738

Client Sample	ID: Method Blank
Pr	ep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			05/03/13 08:45	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			05/03/13 08:45	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			05/03/13 08:45	1
Toluene	ND		0.00200	0.000740	mg/Kg			05/03/13 08:45	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			05/03/13 08:45	1

	MID MID				
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99	70 - 130		05/03/13 08:45	1
4-Bromofluorobenzene (Surr)	102	70 - 130		05/03/13 08:45	1
Dibromofluoromethane (Surr)	106	70 - 130		05/03/13 08:45	1
Toluene-d8 (Surr)	99	70 - 130		05/03/13 08:45	1

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Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-25526-1

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

Lab Sample ID: LCS 490-76738/3

Matrix: Solid

Analysis Batch: 76738

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.0500 0.04636 mg/Kg 93 75 - 127 Ethylbenzene 0.0500 0.04619 92 80 - 134 mg/Kg Naphthalene 0.0500 0.06075 121 69 - 150 mg/Kg 0.0500 91 80 - 132 Toluene 0.04567 mg/Kg Xylenes, Total 0.150 0.1369 mg/Kg 80 - 137

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
Surrogate	76Recovery	Quanner	Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 76738

Matrix: Solid

Lab Sample ID: LCSD 490-76738/4

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.04927		mg/Kg		99	75 - 127	6	50
Ethylbenzene	0.0500	0.04979		mg/Kg		100	80 - 134	8	50
Naphthalene	0.0500	0.06627		mg/Kg		133	69 - 150	9	50
Toluene	0.0500	0.04745		mg/Kg		95	80 - 132	4	50
Xylenes, Total	0.150	0.1515		mg/Kg		101	80 - 137	10	50

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
Toluene-d8 (Surr)	95		70 - 130

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

Lab Sample ID: MB 490-76464/1-A

Matrix: Solid

Analysis Batch: 76635

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 76464

	МВ	МВ						2110-2011	a variety.
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		05/02/13 06:40	05/02/13 17:49	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		05/02/13 06:40	05/02/13 17:49	1
Anthracene	ND		0.0670	0.00900	mg/Kg		05/02/13 06:40	05/02/13 17:49	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		05/02/13 06:40	05/02/13 17:49	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		05/02/13 06:40	05/02/13 17:49	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		05/02/13 06:40	05/02/13 17:49	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		05/02/13 06:40	05/02/13 17:49	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		05/02/13 06:40	05/02/13 17:49	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		05/02/13 06:40	05/02/13 17:49	1
Pyrene	ND		0.0670	0.0120	mg/Kg		05/02/13 06:40	05/02/13 17:49	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		05/02/13 06:40	05/02/13 17:49	1

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Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-25526-1

Lab Sample ID: MB 490-76464/1-A

Lab Sample ID: LCS 490-76464/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 76635

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 76464

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.0670	0.00900	mg/Kg		05/02/13 06:40	05/02/13 17:49	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		05/02/13 06:40	05/02/13 17:49	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		05/02/13 06:40	05/02/13 17:49	-1
Fluorene	ND		0.0670	0.0120	mg/Kg		05/02/13 06:40	05/02/13 17:49	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		05/02/13 06:40	05/02/13 17:49	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		05/02/13 06:40	05/02/13 17:49	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		05/02/13 06:40	05/02/13 17:49	1

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

MD MD				
%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
79	29 - 120	05/02/13 06:40	05/02/13 17:49	1
94	13 - 120	05/02/13 06:40	05/02/13 17:49	1
82	27 - 120	05/02/13 06:40	05/02/13 17:49	1
	%Recovery Qualifier 79 94	%Recovery Qualifier Limits  79 29 - 120  94 13 - 120	%Recovery         Qualifier         Limits         Prepared           79         29 - 120         05/02/13 06:40           94         13 - 120         05/02/13 06:40	%Recovery         Qualifier         Limits         Prepared         Analyzed           79         29 - 120         05/02/13 06:40         05/02/13 17:49           94         13 - 120         05/02/13 06:40         05/02/13 17:49

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 76464

Analysis Batch: 76635 LCS LCS Spike %Rec. Added Result Qualifier Limits Analyte Unit D %Rec 38 - 120 Acenaphthylene 1.67 1.437 mg/Kg 86 Anthracene 1.67 1.454 87 46 - 124 mg/Kg Benzo[a]anthracene 1.67 1.389 mg/Kg 83 45 - 120 45 - 120 Benzo[a]pyrene 1.67 1.416 mg/Kg 85 Benzo[b]fluoranthene 1.67 1.346 mg/Kg 81 42 - 120 Benzo[g,h,i]perylene 1.67 1.323 mg/Kg 79 38 - 120 Benzo[k]fluoranthene 1.334 80 42 - 120 1.67 mg/Kg 32 - 120 1-Methylnaphthalene 1.67 1.130 mg/Kg 68 1.67 1.418 43 - 120 Pyrene mg/Kg 45 - 120 Phenanthrene 1.67 1.307 mg/Kg 78 43 - 120 78 Chrysene 1.67 1.303 mg/Kg 32 - 128 Dibenz(a,h)anthracene 1.67 1.343 mg/Kg 81 Fluoranthene 1.377 46 - 120 1.67 mg/Kg 83 1.333 80 42 - 120 Fluorene 1.67 mg/Kg Indeno[1,2,3-cd]pyrene 1.67 1.351 mg/Kg 81 41 - 121 Naphthalene 1.67 1.030 mg/Kg 62 32 - 120 2-Methylnaphthalene 1.67 1.119 mg/Kg 67 28 - 120

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	71		29 - 120
Terphenyl-d14 (Surr)	84		13 - 120
Nitrobenzene-d5 (Surr)	70		27 - 120

Lab Sample ID: 490-25531-A-1-B MS

Matrix: Solid

Analysis Batch: 76635

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

Prep Batch: 76464

%Rec. Sample Sample Spike MS MS Added Unit %Rec Limits Analyte Result Qualifier Result Qualifier ND 25 - 120 Acenaphthylene 1.66 1.388 mg/Kg 84 Anthracene ND 1.66 1.406 mg/Kg 85 28 - 125

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Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-25526-1

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

Lab Sample ID: 490-25531-A-1-B MS

Matrix: Solid

Analysis Batch: 76635

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 76464

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzo[a]anthracene	ND		1.66	1.350		mg/Kg		81	23 - 120
Benzo[a]pyrene	ND		1.66	1.369		mg/Kg		82	15 - 128
Benzo[b]fluoranthene	ND		1.66	1.287		mg/Kg		78	12 - 133
Benzo[g,h,i]perylene	ND		1.66	1.221		mg/Kg		74	22 - 120
Benzo[k]fluoranthene	ND		1.66	1.242		mg/Kg		75	28 - 120
1-Methylnaphthalene	0.135		1.66	1.123		mg/Kg		59	10 - 120
Pyrene	ND		1.66	1.447		mg/Kg		87	20 - 123
Phenanthrene	ND		1.66	1.260		mg/Kg		76	21 - 122
Chrysene	ND		1.66	1.286		mg/Kg		77	20 - 120
Dibenz(a,h)anthracene	ND		1.66	1.239		mg/Kg		75	12 - 128
Fluoranthene	ND		1.66	1.290		mg/Kg		78	10 - 143
Fluorene	ND		1.66	1.287		mg/Kg		78	20 - 120
Indeno[1,2,3-cd]pyrene	ND		1.66	1.217		mg/Kg		73	22 - 121
Naphthalene	0.193		1.66	1.102		mg/Kg		55	10 - 120
2-Methylnaphthalene	0.161		1.66	1.123		mg/Kg		58	13 - 120
	***	***							

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	71		29 - 120
Terphenyl-d14 (Surr)	85		13 - 120
Nitrobenzene-d5 (Surr)	76		27 - 120

Lab Sample ID: 490-25531-A-1-C MSD

Matrix: Solid

Analysis Batch: 76635

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 76464

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	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	ND		1.62	1.319		mg/Kg		81	25 - 120	5	50
Anthracene	ND		1.62	1.372		mg/Kg		85	28 - 125	2	49
Benzo[a]anthracene	ND		1.62	1.351		mg/Kg		83	23 - 120	0	50
Benzo[a]pyrene	ND		1.62	1.340		mg/Kg		83	15 - 128	2	50
Benzo[b]fluoranthene	ND		1.62	1.235		mg/Kg		76	12 - 133	4	50
Benzo[g,h,i]perylene	ND		1.62	1.195		mg/Kg		74	22 - 120	2	50
Benzo[k]fluoranthene	ND		1.62	1.241		mg/Kg		77	28 - 120	0	45
1-Methylnaphthalene	0.135		1.62	1.125		mg/Kg		61	10 - 120	0	50
Pyrene	ND		1.62	1.437		mg/Kg		89	20 - 123	1	50
Phenanthrene	ND		1.62	1.218		mg/Kg		75	21 - 122	3	50
Chrysene	ND		1.62	1.257		mg/Kg		78	20 - 120	2	49
Dibenz(a,h)anthracene	ND		1.62	1.193		mg/Kg		74	12 - 128	4	50
Fluoranthene	ND		1.62	1.246		mg/Kg		77	10 - 143	3	50
Fluorene	ND		1.62	1.233		mg/Kg		76	20 - 120	4	50
Indeno[1,2,3-cd]pyrene	ND		1.62	1.189		mg/Kg		73	22 - 121	2	50
Naphthalene	0.193		1.62	1.106		mg/Kg		56	10 - 120	0	50
2-Methylnaphthalene	0.161		1.62	1.126		mg/Kg		60	13 - 120	0	50

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	69		29 - 120
Terphenyl-d14 (Surr)	86		13 - 120

TestAmerica Nashville

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Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-25526-1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 76995

Prep Batch: 76464

Client Sample ID: Matrix Spike Duplicate

Lab Sample ID: 490-25531-A-1-C MSD

Matrix: Solid

Surrogate

Analysis Batch: 76635

MSD MSD

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

%Recovery Qualifier Limits 27 - 120 70

Lab Sample ID: MB 490-76995/1-A

Matrix: Solid

Analysis Batch: 77106

Nitrobenzene-d5 (Surr)

	me	INIC							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		05/04/13 09:07	05/05/13 16:43	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		05/04/13 09:07	05/05/13 16:43	1
Anthracene	ND		0.0670	0.00900	mg/Kg		05/04/13 09:07	05/05/13 16:43	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		05/04/13 09:07	05/05/13 16:43	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		05/04/13 09:07	05/05/13 16:43	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		05/04/13 09:07	05/05/13 16:43	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		05/04/13 09:07	05/05/13 16:43	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		05/04/13 09:07	05/05/13 16:43	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		05/04/13 09:07	05/05/13 16:43	1
Pyrene	ND		0.0670	0.0120	mg/Kg		05/04/13 09:07	05/05/13 16:43	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		05/04/13 09:07	05/05/13 16:43	1
Chrysene	ND		0.0670	0.00900	mg/Kg		05/04/13 09:07	05/05/13 16:43	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		05/04/13 09:07	05/05/13 16:43	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		05/04/13 09:07	05/05/13 16:43	1
Fluorene	ND		0.0670	0.0120	mg/Kg		05/04/13 09:07	05/05/13 16:43	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		05/04/13 09:07	05/05/13 16:43	1

MB MB

ND

ND

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	79	29 - 120	05/04/13 09:07	05/05/13 16:43	1
Terphenyl-d14 (Surr)	85	13 - 120	05/04/13 09:07	05/05/13 16:43	1
Nitrobenzene-d5 (Surr)	77	27 - 120	05/04/13 09:07	05/05/13 16:43	1

0.0670

0.0670

0.00900 mg/Kg

0.0160 mg/Kg

Lab Sample ID: LCS 490-76995/2-A

Matrix: Solid

Naphthalene

2-Methylnaphthalene

Analysis Batch: 77106

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

05/05/13 16:43

05/05/13 16:43

05/04/13 09:07

05/04/13 09:07

Prep Batch: 76995

Control of the Contro							
	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.67	1.442		mg/Kg		87	38 - 120
Anthracene	1.67	1.496		mg/Kg		90	46 - 124
Benzo[a]anthracene	1.67	1.418		mg/Kg		85	45 - 120
Benzo[a]pyrene	1.67	1.419		mg/Kg		85	45 - 120
Benzo[b]fluoranthene	1.67	1.377		mg/Kg		83	42 - 120
Benzo[g,h,i]perylene	1.67	1.261		mg/Kg		76	38 - 120
Benzo[k]fluoranthene	1.67	1.325		mg/Kg		80	42 - 120
1-Methylnaphthalene	1.67	1.170		mg/Kg		70	32 - 120
Pyrene	1.67	1.410		mg/Kg		85	43 - 120
Phenanthrene	1.67	1.299		mg/Kg		78	45 - 120
Chrysene	1.67	1.300		mg/Kg		78	43 - 120
Dibenz(a,h)anthracene	1.67	1.295		mg/Kg		78	32 - 128

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-25526-1

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

LCS LCS %Recovery Qualifier

70

83

73

Lab Sample ID: LCS 490-76995/2-A

Matrix: Solid

Analysis Batch: 77106

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

Prep Batch: 76995

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Fluoranthene	1.67	1.394		mg/Kg		84	46 - 120	
Fluorene	1.67	1.340		mg/Kg		80	42 - 120	
Indeno[1,2,3-cd]pyrene	1.67	1.299		mg/Kg		78	41 - 121	
Naphthalene	1.67	1.075		mg/Kg		64	32 - 120	
2-Methylnaphthalene	1.67	1.160		mg/Kg		70	28 - 120	

Limits

29 - 120

13 - 120

27 - 120

Lab Sample ID: LCSD 490-76995/3-A

Matrix: Solid

Surrogate

-b---- D-4-b- 77400

2-Fluorobiphenyl (Surr)

Nitrobenzene-d5 (Surr)

Terphenyl-d14 (Surr)

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

Pren Batch: 76995

Analysis Batch: 77106							Prep	Batch:	76995
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	1.67	1.424		mg/Kg		85	38 - 120	1	50
Anthracene	1.67	1.482		mg/Kg		89	46 - 124	1	49
Benzo[a]anthracene	1.67	1,407		mg/Kg		84	45 - 120	1	50
Benzo[a]pyrene	1.67	1.414		mg/Kg		85	45 - 120	0	50
Benzo[b]fluoranthene	1.67	1.319		mg/Kg		79	42 - 120	4	50
Benzo[g,h,i]perylene	1.67	1.276		mg/Kg		77	38 - 120	1	50
Benzo[k]fluoranthene	1.67	1.348		mg/Kg		81	42 - 120	2	45
1-Methylnaphthalene	1.67	1.147		mg/Kg		69	32 - 120	2	50
Pyrene	1.67	1.391		mg/Kg		83	43 - 120	1	50
Phenanthrene	1.67	1.319		mg/Kg		79	45 - 120	2	50
Chrysene	1.67	1.301		mg/Kg		78	43 - 120	0	49
Dibenz(a,h)anthracene	1.67	1.316		mg/Kg		79	32 - 128	2	50
Fluoranthene	1.67	1.413		mg/Kg		85	46 - 120	1	50
Fluorene	1.67	1.340		mg/Kg		80	42 - 120	0	50
Indeno[1,2,3-cd]pyrene	1.67	1,311		mg/Kg		79	41 - 121	1	50
Naphthalene	1.67	1.057		mg/Kg		63	32 - 120	2	50
2-Methylnaphthalene	1.67	1.159		ma/Ka		70	28 - 120	0	50

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	70		29 - 120
Terphenyl-d14 (Surr)	81		13 - 120
Nitrobenzene-d5 (Surr)	69		27 - 120

Client Sample ID: Duplicate

Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 76389

Method: Moisture - Percent Moisture

Lab Sample ID: 490-25521-D-1 DU

	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Percent Solids	86		92		%			

### **QC Association Summary**

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-25526-1

#### GC/MS VOA

Prep Ba	tch:	764	25
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-25538-A-4-D MS	Matrix Spike	Total/NA	Solid	5035	
490-25538-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Prep Batch: 76434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-25526-1	1458 Cardinal	Total/NA	Soil	5035	
490-25526-2	1335 Albatross	Total/NA	Soil	5035	
490-25526-3	1438 Dove-1	Total/NA	Soil	5035	
490-25526-4	1188 Bobwhite	Total/NA	Soil	5035	



#### Analysis Batch: 76457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-25526-2	1335 Albatross	Total/NA	Soil	8260B	76434
490-25526-3	1438 Dove-1	Total/NA	Soil	8260B	76434
490-25526-4	1188 Bobwhite	Total/NA	Soil	8260B	76434
490-25538-A-4-D MS	Matrix Spike	Total/NA	Solid	8260B	76425
490-25538-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	76425
LCS 490-76457/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-76457/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-76457/6	Method Blank	Total/NA	Solid	8260B	



### Analysis Batch: 76738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-25526-1	1458 Cardinal	Total/NA	Soil	8260B	76434
LCS 490-76738/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-76738/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-76738/6	Method Blank	Total/NA	Solid	8260B	

#### GC/MS Semi VOA

#### Prep Batch: 76464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-25526-1	1458 Cardinal	Total/NA	Soil	3550C	
490-25526-2	1335 Albatross	Total/NA	Soil	3550C	
490-25526-4	1188 Bobwhite	Total/NA	Soil	3550C	
490-25531-A-1-B MS	Matrix Spike	Total/NA	Solid	3550C	
490-25531-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
LCS 490-76464/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-76464/1-A	Method Blank	Total/NA	Solid	3550C	

#### Analysis Batch: 76635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-25526-1	1458 Cardinal	Total/NA	Soil	8270D	76464
490-25526-2	1335 Albatross	Total/NA	Soil	8270D	76464
490-25526-4	1188 Bobwhite	Total/NA	Soil	8270D	76464
490-25531-A-1-B MS	Matrix Spike	Total/NA	Solid	8270D	76464
490-25531-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	76464
LCS 490-76464/2-A	Lab Control Sample	Total/NA	Solid	8270D	76464
MB 490-76464/1-A	Method Blank	Total/NA	Solid	8270D	76464

### **QC Association Summary**

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-25526-1

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#### GC/MS Semi VOA (Continued)

Prep Batch:	7699	)
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-25526-3	1438 Dove-1	Total/NA	Soil	3550C	
LCS 490-76995/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 490-76995/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
MB 490-76995/1-A	Method Blank	Total/NA	Solid	3550C	

## 5

#### Analysis Batch: 77106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-25526-3	1438 Dove-1	Total/NA	Soil	8270D	76995
LCS 490-76995/2-A	Lab Control Sample	Total/NA	Solid	8270D	76995
LCSD 490-76995/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	76995
MB 490-76995/1-A	Method Blank	Total/NA	Solid	8270D	76995



#### **General Chemistry**

#### Analysis Batch: 76389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-25521-D-1 DU	Duplicate	Total/NA	Solid	Moisture	
490-25526-1	1458 Cardinal	Total/NA	Soil	Moisture	
490-25526-2	1335 Albatross	Total/NA	Soil	Moisture	
490-25526-3	1438 Dove-1	Total/NA	Soil	Moisture	
490-25526-4	1188 Bobwhite	Total/NA	Soil	Moisture	

#### Lab Chronicle

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-25526-1

Lab Sample ID: 490-25526-1 Matrix: Soil

Percent Solids: 74.7

Client Sample ID: 1458 Cardinal

Date Collected: 04/23/13 15:30 Date Received: 05/01/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			76434	05/01/13 16:08	ML	TAL NSH
Total/NA	Analysis	8260B		1	76738	05/03/13 09:46	AF	TAL NSH
Total/NA	Prep	3550C			76464	05/02/13 06:40	JP	TAL NSH
Total/NA	Analysis	8270D		1	76635	05/02/13 23:41	KP	TAL NSH
Total/NA	Analysis	Moisture		1	76389	05/01/13 14:20	RS	TAL NSH

Client Sample ID: 1335 Albatross

Date Collected: 04/24/13 14:00

Date Received: 05/01/13 08:00 Batch Batch Dilution Batch Prepared **Prep Type** Method Run Factor Number or Analyzed Type

Lab Sample ID: 490-25526-2

Matrix: Soil Percent Solids: 88.4

Lab Analyst Total/NA Prep 5035 76434 05/01/13 16:08 TAL NSH ML Total/NA 8260B Analysis 76457 05/02/13 14:17 AF TAL NSH Total/NA Prep 3550C 76464 05/02/13 06:40 JP TAL NSH 8270D 05/03/13 00:04 Total/NA Analysis 1 76635 KP TAL NSH Total/NA 05/01/13 14:20 Analysis Moisture 76389 TAL NSH RS

Client Sample ID: 1438 Dove-1

Date Collected: 04/22/13 12:15

Date Received: 05/01/13 08:00

Lab Sample ID: 490-25526-3

Matrix: Soil Percent Solids: 81.8

Batch	Batch		Dilution	Batch	Prepared			
Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Prep	5035			76434	05/01/13 16:08	ML	TAL NSH	
Analysis	8260B		1	76457	05/02/13 14:48	AF	TAL NSH	
Prep	3550C			76995	05/04/13 09:07	JP	TAL NSH	
Analysis	8270D		1	77106	05/05/13 22:29	JS	TAL NSH	
Analysis	Moisture		1	76389	05/01/13 14:20	RS	TAL NSH	
	Prep Analysis Prep Analysis	Type         Method           Prep         5035           Analysis         8260B           Prep         3550C           Analysis         8270D	Type         Method         Run           Prep         5035           Analysis         8260B           Prep         3550C           Analysis         8270D	Type         Method         Run         Factor           Prep         5035         1           Analysis         8260B         1           Prep         3550C         3550C           Analysis         8270D         1	Type         Method         Run         Factor         Number           Prep         5035         76434           Analysis         8260B         1         76457           Prep         3550C         76995           Analysis         8270D         1         77106	Type         Method         Run         Factor         Number or Analyzed           Prep         5035         76434         05/01/13 16:08           Analysis         8260B         1         76457         05/02/13 14:48           Prep         3550C         76995         05/04/13 09:07           Analysis         8270D         1         77106         05/05/13 22:29	Type         Method         Run         Factor         Number         or Analyzed         Analyst           Prep         5035         76434         05/01/13 16:08         ML           Analysis         8260B         1         76457         05/02/13 14:48         AF           Prep         3550C         76995         05/04/13 09:07         JP           Analysis         8270D         1         77106         05/05/13 22:29         JS	Type         Method         Run         Factor         Number         or Analyzed         Analyst         Lab           Prep         5035         76434         05/01/13 16:08         ML         TAL NSH           Analysis         8260B         1         76457         05/02/13 14:48         AF         TAL NSH           Prep         3550C         76995         05/04/13 09:07         JP         TAL NSH           Analysis         8270D         1         77106         05/05/13 22:29         JS         TAL NSH

Client Sample ID: 1188 Bobwhite

Date Collected: 04/22/13 15:45

Date Received: 05/01/13 08:00

Lab Sample ID: 490-25526-4

Matrix: Soil

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			76434	05/01/13 16:08	ML	TAL NSH
Total/NA	Analysis	8260B		1	76457	05/02/13 15:19	AF	TAL NSH
Total/NA	Prep	3550C			76464	05/02/13 06:40	JP	TAL NSH
Total/NA	Analysis	8270D		1	76635	05/03/13 00:51	KP	TAL NSH
Total/NA	Analysis	Moisture		1	76389	05/01/13 14:20	RS	TAL NSH

**Laboratory References:** 

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

TestAmerica Nashville

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5/13/2013

### **Method Summary**

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

TestAmerica Job ID: 490-25526-1

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

#### Protocol References:

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

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#### **Laboratory References:**

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

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### **Certification Summary**

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-25526-1

2

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	<b>Expiration Date</b>
	ACIL		393	10-30-13
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-14 *
Arkansas DEQ	State Program	6	88-0737	04-25-13 *
California	NELAP	9	1168CA	10-31-13
Connecticut	State Program	1	PH-0220	12-31-13
lorida	NELAP	4	E87358	06-30-13
linois	NELAP	5	200010	12-09-13
owa	State Program	7	131	05-01-14
ansas	NELAP	7	E-10229	10-31-13
entucky (UST)	State Program	4	19	09-15-13
ouisiana	NELAP	6	30613	06-30-13
laryland	State Program	3	316	03-31-14
lassachusetts	State Program	1	M-TN032	06-30-13
linnesota	NELAP	5	047-999-345	12-31-13
lississippi	State Program	4	N/A	06-30-13
Iontana (UST)	State Program	8	NA	01-01-15
levada	State Program	9	TN00032	07-31-13
lew Hampshire	NELAP	1	2963	10-10-13
lew Jersey	NELAP	2	TN965	06-30-13
lew York	NELAP	2	11342	04-01-14
lorth Carolina DENR	State Program	4	387	12-31-13
orth Dakota	State Program	8	R-146	06-30-13
Phio VAP	State Program	5	CL0033	01-19-14
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-13
thode Island	State Program	1	LAO00268	12-30-13
outh Carolina	State Program	4	84009 (001)	05-31-14 *
outh Carolina	State Program	4	84009 (002)	02-23-14
ennessee	State Program	4	2008	02-23-14
exas	NELAP	6	T104704077-09-TX	08-31-13
SDA	Federal		S-48469	11-02-13
tah	NELAP	8	TAN	06-30-13
irginia	NELAP	3	460152	06-14-13
Vashington	State Program	10	C789	07-19-13
Vest Virginia DEP	State Program	3	219	02-28-14
Visconsin	State Program	5	998020430	08-31-13
Vyoming (UST)	A2LA	8	453.07	12-31-13

<sup>\*</sup> Expired certification is currently pending renewal and is considered valid.



### Nashville, TN COOLER RECEIPT FORM

Charleston



Cooler Received/Opened On 5/1/13 @ 0800	90-25526 Chain of Custody
1. Tracking #(last 4 digits, FedEx)	
Courier: FedEx IR Gun ID 12080142	
2. Temperature of rep. sample or temp blank when opened: 1 b Degrees Celsius	
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen	YES NO (NA)
4. Were custody seals on outside of cooler? ONE front FBack	(YES).NONA
5. Were the seals intact, signed, and dated correctly?	(YES)NONA 526
6. Were custody papers inside cooler?	YES NONA
certify that I opened the cooler and answered questions 1-6 (intial)	- Enterphise
7. Were custody seals on containers: YES (ID) and Intact	YESNO (A)
Were these signed and dated correctly?	YESNO. NA
8. Packing mat'l used? Subblewrap Plastic bag Peanuts Vermiculite Foam Insert Pap	per Other None
9. Cooling process: Ce lce-pack lce (direct contact) Dry ic	ce Other None
10. Did all containers arrive in good condition (unbroken)?	ESNONA
11. Were all container labels complete (#, date, signed, pres., etc)?	(ES).NONA
12. Did all container labels and tags agree with custody papers?	ES).NONA
13a. Were VOA vials received?	ESNONA
b. Was there any observable headspace present in any VOA vial?	YESNO.
14. Was there a Trip Blank in this cooler? YES NA If multiple coolers, seque	nce #
certify that I unloaded the cooler and answered questions 7-14 (intial)	<u></u>
15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level	? YESNO
b. Did the bottle labels indicate that the correct preservatives were used	(TES)NONA
6. Was residual chlorine present?	YESNO
certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)	_@
7. Were custody papers properly filled out (ink, signed, etc)?	YES NONA
8. Did you sign the custody papers in the appropriate place?	(ES)NONA
9. Were correct containers used for the analysis requested?	(ES)NONA
20. Was sufficient amount of sample sent in each container?	E9NONA
certify that I entered this project into LIMS and answered questions 17-20 (intial)	
certify that I attached a label with the unique LIMS number to each container (intial)	
1 Were there Non-Conformance Issues at login? YES 40 Was a NCM generated? YES	NO #

Date Time Received by TestAmerica: Date Time  ###################################	13 0900 Fedex	Method of Shipmerit				) 	1 4/23/15 /530/5 /5	Date Sampled  Time Sampled  No. of Containers Shipp  Grab  Composite  Field Filtered  Ioe  HINO <sub>3</sub> (Red Label)  NaOH (Orange Label)  H <sub>2</sub> SO <sub>4</sub> Pinatic (Yallow Label)  None (Black Label)  None (Black Label)  Other (Specify)  Groundwater  Wastewater  Drinking Water  Studge	Presen	Sampler Signature:	Tunstall	Project Manager: 10m McElwee email: mcelwee@eeginc.net Telephone Number: 843.412.2097 Fax No.: 843-879-0401 Tu		Client Name/Account #: EEG - SBG # 2449	Phone: 615-726-0177 2980 Foster Creighton Toll Free: 800-765-0980 ELEADER IN ENVIRONMENTAL TESTING Nashville, TN 37204 Fax: 615-726-3404	
Time		Temperature Upon Receipt   .6 c  VOCs Free of Headspace?					XXX		Analyze For:	Project#:	Project ID: Laurel Bay Housing Project	TA Quote #:	SC	7 Yes		

		quished by:	11001	quished by:	;ial instructions:	0.0		×.	111	1188 Bobwhite 4/201	1000 - 1 4/24	ple ID / Description		Sampler Signature:	Sampler Name: (Print)	Telephone Number: 843.412,8097	Project Manager: Tom McElwee email: mcelwee@eeginc.net	City/State/Zio: Ladson, SC 29456	Address: 10179 Highw	E LEADER IN ENVIRONMENTAL TESTING Na Client Name/Account #: EEG. SBG # 2449		
		Dafe Time	130	Date / Time		+				13/5451 5 X	3 1215 5 X	Time Sampled  No. of Containers Shippe	0	1 page	Athishau	7 11 -1	e email: moelwee@eegi	29456	28 ZBV 78	Nashville Division 2960 Foster Creighton Nashville, TN 37204		Bright Bright Bright
	Cost & Juneary	Received by TestAmerica:	o Fedny								5 2	Composite Field Filtered Ice HNO <sub>2</sub> (Red Label) HCI+(Bitce-tabel) NaOH ( Orange Label) H <sub>2</sub> SO <sub>4</sub> Plastic (Yellow Label)	Reservative	e		Fax No.: 843 -	nc.net					1
	61:13	Date		Date						2)    X	X X	None (Black Label)  Cther ( Specify) M R + M Groundweter  Wastewater  Drinking Water  Siudge  Soil	J.	101		1000-628		-		Phone: 615-726-0177 Toll Free: 800-755-0980 Fax: 615-726-3404		
. ^	0000	Time	***************************************	Temperature Upon Receipt: VOCs Free of Headspace?	Laboratory Comments:					X   X		Other (specify):  BTEX + Napth - 826  PAH - 8270D	Analyze For	Project #:	Project ID: Laurel Bay Housing Project		PO# 1035	Site State: SC	Enforcement Action?	To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?  Compliance Monitoring?	10.70	クルチス
				J.Gc Y N					٧-			RUSH TAT (Pre-Schedu Standard TAT Fax Results Send QC with report	ile					ĺ	<b>X</b>	Yes	25526 3/2013	

#### **Login Sample Receipt Checklist**

Client: Environmental Enterprise Group

Job Number: 490-25526-1

Login Number: 25526

List Source: TestAmerica Nashville

List Number: 1 Creator: McBride, Mike

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

True

True

N/A

<6mm (1/4").

Multiphasic samples are not present.

Residual Chlorine Checked.

Samples do not require splitting or compositing.

### ATTACHMENT A



# NON-HAZARDOUS MANIFEST

The same at the same and the same	1. Generator's US E	PA ID No.	Manifest Doo	c No.	2. Page 1	of		1	
NON-HAZARDOUS MANIFEST					1		7/63	66	
3. Generator's Mailing Address:	Ge	nerator's Site Addre	SS (If different than	mailing):	A. Manife	st Number	1100		
MCAS BEAUFORT	5 A 1A				w	MNA	01510	140	
LAUREL BAY HOUSING	110					010	01519140 ate Generator's ID		
BEAUFORT, SC 29904						b. State	Generators	U	
	79-0411								
5. Transporter 1 Company Name		6. US I	EPA ID Number						
Senta Nois						ransporter's			
PO BOX 1935 B ft	10 27901				D. Transp	orter's Phone	843 4	12-150	
7. Transporter 2 Company Name		8. USI	EPA ID Number			1			
						ransporter's l			
		4:			F. Transp	orter's Phone			
9. Designated Facility Name and Site	Address	10. US	EPA ID Numbe	r					
HICKORY HILL LANDFILL					G. State F	acility ID			
2621 LOW COUNTRY DRIVE					H. State F	acility Phone	843-9	87-4643	
RIDGELAND, SC 29936									
			12.0	Containers	13. Total	14. Unit	1		
11. Description of Waste Materials			No.	Туре	Quantity	Wt./Vol.	I. Mi	sc. Comments	
a. HEATING OIL TANK FILLED	WITH SAND		- The same			-	1000		
			/	20=1	7011	TON	7/6	366	
WM Prof	file # 102655SC			1	1				
b.					7.00				
WM Profile #			(III)	4 (3 (3)		-			
c.									
WM Profile #			11/200	n en en	100				
d.									
-7-									
WM Profile #			/		4				
J. Additional Descriptions for Mater	rials Listed Above		K Dispo	osal Location	1	S - 52			
7 Auditional Descriptions for Mater	idis Listed Above		K. Dispe	Jul Edebtion					
			Cell				Level		
			Grid					1	
15. Special Handling Instructions and	Additional Information	on	6 . 1	4	1655	CAMI	ElliA-	6) 132	
UST's from	5 ,2)	1335 AI	DATEC	272 .	5	0	11	A!hATR	
1 1458 CARd	MA (3)	404 EldE	RHER	RYVS	1)684	LAME	11:4	1000	
Purchase Order #	-		Y CONTACT / PH						
16. GENERATOR'S CERTIFICATE:									
I hereby certify that the above-descri	bed materials are not	hazardous wastes as	defined by 40 0	CFR Part 261	or any applic	able state la	w, have been	fully and	
accurately described, classified and p	ackaged and are in pro			ording to ap	plicable regu	lations.		1000	
Printed Name	1.72 1/2	Signature "On	behalf of"	77.	11/1/	s lbo	Month	Day Ye	
1 mothy	WAHIE	71	) lem	rolly	wyw	SECH .	ð	141	
17. Transporter 1 Acknowledgement	of Receipt of Materia		,,,	11		1	1 1		
Printed Name	Shall	Signature	9/11	//		0	Month	Day Ye	
19. Transporter 2 Advantage	-////		1	1			18	17 /	
18. Transporter 2 Acknowledgement	or Receipt of Materia		-0				1000	De	
Printed Name		Signature					Month	Day Ye	
19. Certificate of Final Treatment/Dis	sposal								
I certify, on behalf of the above listed	treatment facility, that	at to the best of my k	nowledge, the a	above-descr	ibed waste w	as managed	in compliance	e with all	
applicable laws, regulations, permits	and licenses on the da	ites listed above.			man land of the		1000		
20. Facility Owner or Operator: Cert	ification of receipt of r	non-hazardous mater	ials covered by	this manifes	t.				
Printed Name	/ /	Signature		0/	111		Month	Day Ye	
10N1 (04)	2/0/	1	one !	Wie	ld		9	31	
White- TREATMENT, STORAGE, DISPO	OSAL FACILITY COPY	Blue- GENERA	ATOR #2 COPY	/\	Ye	llow- GENER	ATOR #1 COP	Υ	

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY

## Appendix C Regulatory Correspondence





#### Catherine B. Templeton, Director

Pom ing and proceeding to be too of the price and the com

March 31, 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:

1428 Albatross

1458 Cardinal

1466 Cardinal

1443 Dove

1460 Cardinal

1476 Cardinal

1445 Dove

1464 Cardinal

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@gmail.com or 803-898-0255.

Sincerely,

Kent Krieg

Department of Defense Corrective Action Section

Bureau of Land and Waste Management

South Carolina Department of Health and Environmental Control

Cc:

Russell Berry (via email)

Craig Ehde (via email)