SUMMARY REPORT

476 WEST LAUREL BAY BOULEVARD (FORMERLY 509 WEST LAUREL BAY BOULEVARD)

LAUREL BAY MILITARY HOUSING AREA

MARINE CORPS AIR STATION BEAUFORT

BEAUFORT, SC

Revision: 0 Prepared for:

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

and



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

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Prepared by:



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

Contract Number: N62470-14-D-9016

CTO WE52

JUNE 2021



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List of Acronyms

bgs below ground surface

BTEX benzene, toluene, ethylbenzene, and xylenes

CTO Contract Task Order

COPC constituents of potential concern

IDIQ Indefinite Delivery, Indefinite Quantity

IGWA Initial Groundwater Assessment

JV Joint Venture

LBMH Laurel Bay Military Housing MCAS Marine Corps Air Station

NAVFAC Mid-Lant Naval Facilities Engineering Command Mid-Atlantic

NFA No Further Action

PAH polynuclear aromatic hydrocarbon

QAPP Quality Assurance Program Plan

RBSL risk-based screening level

SCDHEC South Carolina Department of Health and Environmental Control

Site LBMH area at MCAS Beaufort, South Carolina

UST underground storage tank

VISL vapor intrusion screening level



1.0 INTRODUCTION

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

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

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 476 West Laurel Bay Boulevard (Formerly 509 West Laurel Bay Boulevard). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

1.1 Background Information

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



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

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

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

1.2 UST Removal and Assessment Process

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

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

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



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

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

2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 476 West Laurel Bay Boulevard (Formerly 509 West Laurel Bay Boulevard). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 509 West Laurel Bay Boulevard* (MCAS Beaufort, 2014). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On January 23, 2014, a single 280 gallon heating oil UST was removed from the concrete porch area at 476 West Laurel Bay Boulevard (Formerly 509 West Laurel Bay Boulevard). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 5'2" bgs and a single soil sample was collected from that depth. The



sample was collected from the fill port side of the former UST to represent a worst case scenario.

Following UST removal, a soil sample was collected from the base of the excavation and shipped to an offsite laboratory for analysis of the petroleum COPCs. Sampling was performed in accordance with applicable South Carolina regulation R.61-92, Part 280 (SCDHEC, 2017) and assessment guidelines.

2.2 Soil Analytical Results

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

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected 476 West Laurel Bay Boulevard (Formerly 509 West Laurel Bay Boulevard) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 476 West Laurel Bay Boulevard (Formerly 509 West Laurel Bay Boulevard). This NFA determination was obtained in a letter dated October 1, 2014. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2014. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 509 West Laurel Bay Boulevard, Laurel Bay Military Housing Area, September 2014.



- 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 476 West Laurel Bay Boulevard (Formerly 509 West Laurel Bay Boulevard) Laurel Bay Military Housing Area Marine Corps Air Station Beaufort

Beaufort, South Carolina

Constituent	SCDHEC RBSLs (1)	Results Sample Collected 01/23/14					
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)							
Benzene	0.003	ND					
Ethylbenzene	1.15	ND					
Naphthalene	0.036	0.00448					
Toluene	0.627	ND					
Xylenes, Total	13.01	ND					
Semivolatile Organic Compounds Ana	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:

Bold font indicates the analyte was detected.

Bold font and shading indicates the concentration exceeds the SCDHEC RBSL.

EPA - United States Environmental Protection Agency

mg/kg - milligram per kilogram

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

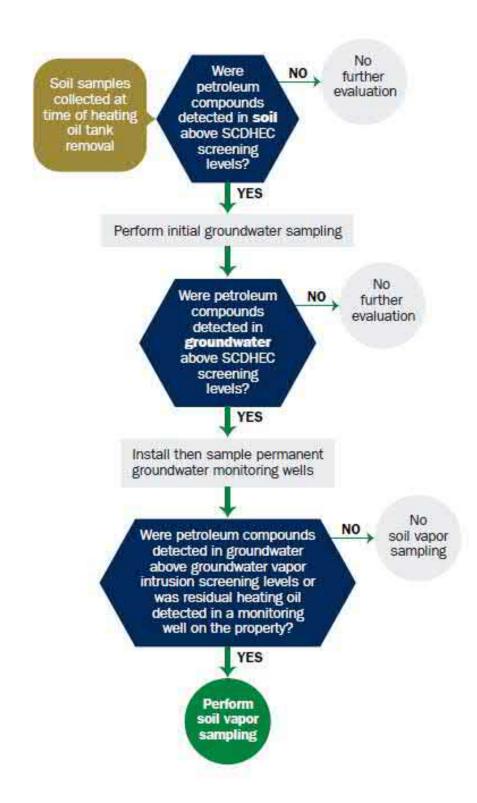
RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

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

Appendix A Multi-Media Selection Process for LBMH





Appendix A - Multi-Media Selection Process for LBMH

Appendix B UST Assessment Report



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)

Mailing Address Beaufort, South Carolina 29904-5001 City State Zip Code	
Mailing Address Beaufort, South Carolina 29904-5001	
P-U- BOX 22001	
P.O. Box 55001	
Owner Name (Corporation, Individual, Public Agency, Other)	

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. #	- Housing Area Marine Corns Air Station Beaufort	00
Facility Name or Company	Housing Area, Marine Corps Air Station, Beaufort, ite Identifier	SC
509 Laurel Bay Bl Street Address or State Roa	d., Laurel Bay Military Housing Area (as applicable)	_
Beaufort,	Beaufort	
City	County	

Attachment 2

III. INSURANCE INFORMATION

The petroleum release reported to DHEC on	litation activities. Before participation is existence or non-existence of an environmental or other financial mechanism that covers this se complete the following information:
UST release? YES NO (check one) If you answered YES to the above question, please. My policy provider is: The policy deductible is:	se complete the following information:
My policy provider is: The policy deductible is:	
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.
V. CERTIFICATION (To be	signed by the UST owner)
certify that I have personally examined and am familiar valuation documents; and that based on my inquiry of the information, I believe that the submitted information is true	vith the information submitted in this and a
2 23 33 2 2 3 2 3	
Signature	
To be completed by Notary Public:	
Sworn before me this day of, 20_	
(Name)	

VI. UST INFORMATION	509 LaurelBB
	DAULETOD
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 1980s
Depth (ft.) To Base of Tank	5'2"
Spill Prevention Equipment Y/N	No
Overfill Prevention Equipment Y/N	No
Method of Closure Removed/Filled	Removed
Date Tanks Removed/Filled	1/23/2014
Visible Corrosion or Pitting Y/N	Yes
Visible Holes Y/N	Yes
Method of disposal for any USTs removed from UST 509LaurelBB was removed from	
Subtitle "D" landfill. See Attac	

VII. PIPING INFORMATION

	LaurelBB	
	Steel	+
Construction Material(ex. Steel, FRP)	& Copper	1
Distance from UST to Dispenser	N/A	
Number of Dispensers	N/A	
Type of System Pressure or Suction	Suction	
Was Piping Removed from the Ground? Y/N	No	
Visible Corrosion or Pitting Y/N	Yes	
Visible Holes Y/N	No	
Age	Late 1950s	
If any corrosion, pitting, or holes were observed,	describe the location and extent for each pip	ing 1
Corrosion and pitting were found	i on the surface of the steel	ver
pipe. Copper supply and return l	lines were sound.	
VIII. BRIEF SITE DESCR	IPTION AND HISTORY	
	일을 하기 하다 그렇게 한 것이 하셨다. 전 하는 것 같아.	1
VIII. BRIEF SITE DESCR The USTs at the residences are contained fuel oil	onstructed of single wall stee	1
The USTs at the residences are co	onstructed of single wall stee for heating. These USTs were	1_
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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?		х	
If yes, indicate depth and location on the site map.			
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?		х	
If yes, indicate the stockpile location on the site map.			
Name of DHEC representative authorizing soil removal:			
Was a petroleum sheen or free product detected on any excavation or boring waters?		х	
If yes, indicate location and thickness.			

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#
509 LaurelBy	Excav at fill end	Soil	Sandy	5'2"	1/23/14 1215 hrs	P. Shaw	
	-						
8							
9							
10							
11	1						
12							
13							
14							
15							
16							
17							
18							
19							
20							

^{* =} Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

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

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

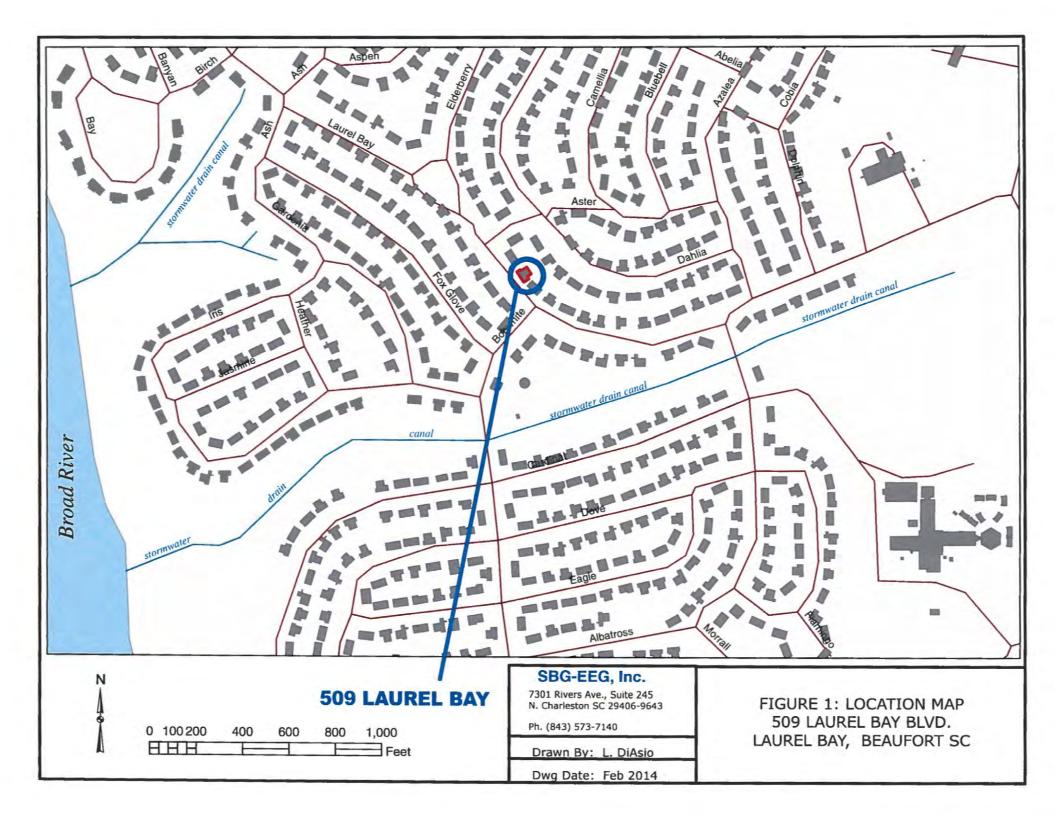
XII. RECEPTORS

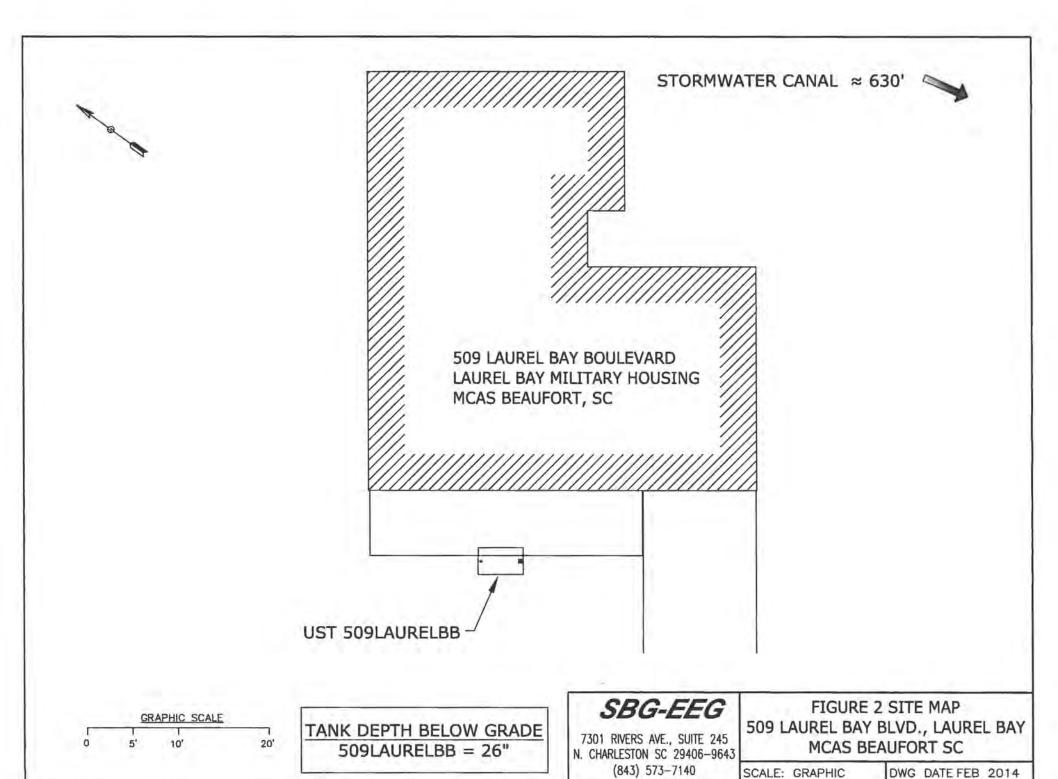
		Yes	No
Α.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? *Stormwater drainage ca	*X	
	If yes, indicate type of receptor, distance, and direction on site map.		
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST 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.	water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? *Sewer, water, electrically contamination?		
	cable, fiber optic & g If yes, indicate the type of utility, distance, and direction on the site map.	eothe	rmal
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.		

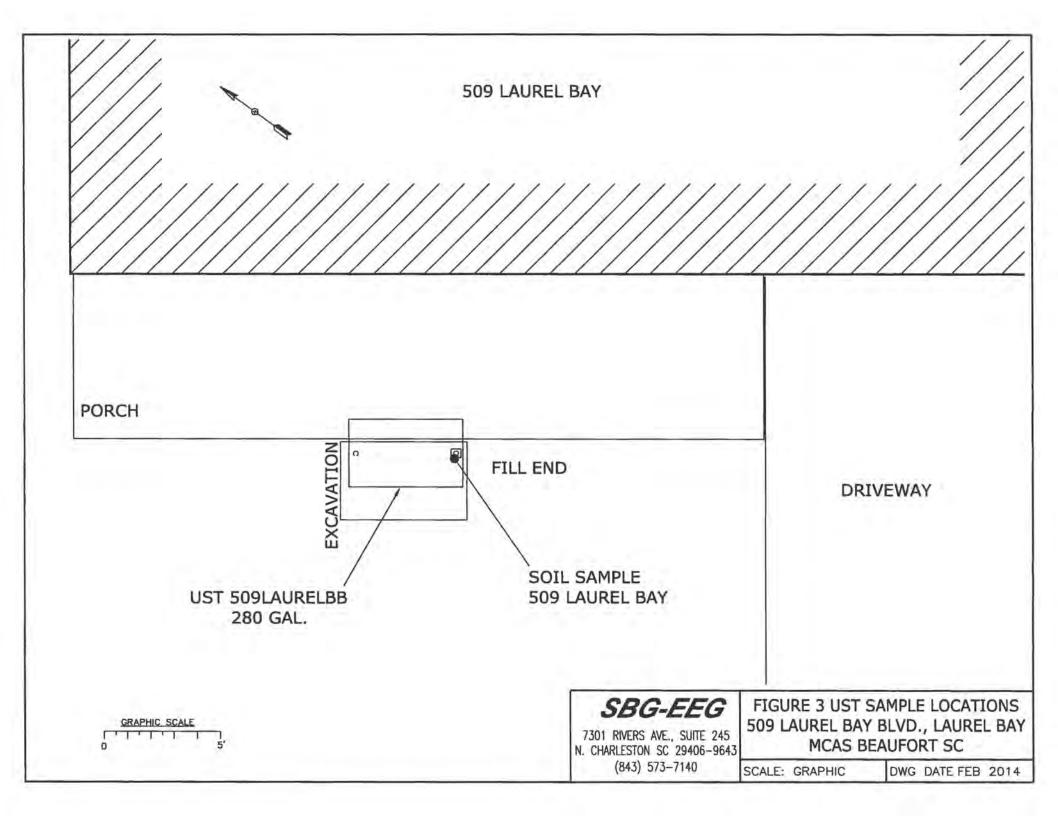
XIII. SITE MAP

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 509LaurelBB.



Picture 2: UST 509LaurelBB 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	509LaurelBB				
Benzene	ND			4	
Toluene	ND				
Ethylbenzene	ND				
Xylenes	ND				
Naphthalene	0.00448 mg/k	a			
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				1 -	
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				ET.
Ethylbenzene	700				
Xylenes	10,000				
Total BTEX	N/A	14 4			
MTBE	40				
Naphthalene	25				
Benzo (a) anthracene	10				
Benzo (b) flouranthene	10				
Benzo (k) flouranthene	10				
Chrysene	10				
Dibenz (a, h) anthracene	10				
EDB	.05				
1,2-DCA	5				
Lead	Site specific				

XV. ANALYTICAL RESULTS

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

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





THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 490-45557-1

Client Project/Site: Laurel Bay Housing Project

For:

Small Business Group Inc. 10179 Highway 78 Ladson, South Carolina 29456

Attn: Tom McElwee

Kuth Hay

Authorized for release by: 2/6/2014 2:42:49 PM

Ken Hayes, Project Manager II (615)301-5035

ken.hayes@testamericainc.com

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

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

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

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Sample Summary

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-45557-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-45557-1	340 Ash-2	Soil	01/21/14 13:15	01/31/14 08:15
490-45557-2	1352 Cardinal	Soil	01/22/14 14:45	01/31/14 08:15
490-45557-3	509 Laurel Bay	Soil	01/23/14 12:15	01/31/14 08:15
490-45557-4	1463 Cardinal	Soil	01/27/14 15:00	01/31/14 08:15

Case Narrative

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project

Job ID: 490-45557-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-45557-1

Comments

No additional comments

Receipt

The samples were received on 1/31/2014 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.4° C.

GC/MS VOA

Method(s) 8260B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample(s): 1352 Cardinal (490-45557-2).

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: 1352 Cardinal (490-45557-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 138971. 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): 1463 Cardinal (490-45557-4).

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: 1463 Cardinal (490-45557-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 139335. See LCS/LCSD.

No other analytical or quality issues were noted

GC/MS Semi VOA

No analytical or quality issues were noted.

Organic Prec

Method(s) Moisture: The sample duplicate precision for the following sample associated with batch 139043 was outside control limits: (490-45545-1 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 2/6/2014

TestAmerica Job ID: 490-45557-1

Definitions/Glossary

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-45557-1

Qualifiers

GC/MS VOA

Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value,

ISTD response or retention time outside acceptable limits

X Surrogate is outside control limits

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

DER Duplicate error ratio (normalized absolute difference)

Dil Fac Dilution Factor

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

DLC Decision level concentration
MDA Minimum detectable activity
EDL Estimated Detection Limit
MDC Minimum detectable concentration

MDL Method Detection Limit
ML Minimum Level (Dioxin)
NC Not Calculated

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)

TestAmerica Nashville

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2/6/2014

Client Sample Results

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project

Client Sample ID: 340 Ash-2

Date Collected: 01/21/14 13:15

Lab Sample ID: 490-45557-1

Matrix: Soil

Date Received: 01/31/14 08:15

Percent Solids: 70.1

Benzene	Method: 8260B - Volatile Orga	A CONTRACTOR OF THE PARTY OF TH				14-14		water	1.00.00	2.23
Ethybenzene	A part of the last							the factor of the later with the	the second second	Dil Fac
Naphthalene			3			12.00				
Toluene	The Contract of the Contract o					4.500				1
Surrogate Mecovery Qualifier Limits Prepared Analyzed Dil Fac						7.07				-1
Surrogate %Recovery Qualifler Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 95 70 . 130 0201/14 10.44 0201/14 14.49 1020/16 14						7.00				1
1,2-Dichloroethane-d4 (Surr) 95 70 - 130 02/01/14 10:44 02/01/14 14:49 17 01/01/01/01/01/01/01/01/01/01/01/01/01/0	Xylenes, Total	0.0104		0.00657	0.000881	mg/Kg		02/01/14 10:44	02/01/14 14:49	1
## 4-Bromofluorobanzene (Surr) 99 70 - 130 02/01/14 10-44 02/01/14 14-49 10/01/14 16-49 10/01/14	Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	DII Fac
Dibromofluoromethane (Surr) 116 70 - 130 02/01/14 10-44 02/01/14 14-49 17 104 104 02/01/14 14-49 17 104 02/01/14 14-49 17 104 02/01/14 14-49 17 104 02/01/14 14-49 17 104 02/01/14 14-49 17 104 02/01/14 14-49 17 104 02/01/14 14-49 17 104 02/01/14 14-49 17 104 02/01/14 14-49 17 104 02/01/14 14-49 17 104 02/01/14 14-49 17 104 02/01/14 14-49 17 104 02/01/14 14-49 17 104 02/01/14 14-49 17 104 02/01/14 14-49 17 104 02/01/14 14-49 17 104 02/01/14 14-49 17 104 02/01/14 14-49 17 104 02/01/14 16-49	1,2-Dichloroethane-d4 (Surr)	95		70 - 130				02/01/14 10:44	02/01/14 14:49	1
Method: 8270D - Semivolatile Organic Compounds (GC/MS) Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Acenaphthylene ND 0.0938 0.0146 mg/Kg 0 02/03/14 10.21 02/03/14 18.49 1 1 1 1 1 1 1 1 1	4-Bromofluorobenzene (Surr)	99		70 - 130				02/01/14 10:44	02/01/14 14:49	1
Method: 8270D - Semivolatile Organic Compounds (GC/MS) Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Acenaphthene ND 0.0938 0.0140 mg/Kg 0.02/03/14 10:21 02/03/14 18:49 1 Acenaphthylene ND 0.0938 0.0126 mg/Kg 0.02/03/14 10:21 02/03/14 18:49 1 Anthracene ND 0.0938 0.0216 mg/Kg 0.02/03/14 10:21 02/03/14 18:49 1 Benzo[a]phyrene ND 0.0938 0.0168 mg/Kg 0.02/03/14 10:21 02/03/14 18:49 1 Benzo[a]phyrene ND 0.0938 0.0168 mg/Kg 0.02/03/14 10:21 02/03/14 18:49 1 Benzo[a]hjuoranthene ND 0.0938 0.0188 mg/Kg 0.02/03/14 10:21 02/03/14 18:49 1 Benzo[a]hjuoranthene ND 0.0938 0.0186 mg/Kg 0.02/03/14 10:21 02/03/14 18:49 1 Benzo[a]hyorene ND 0.0938 0.0186 mg/Kg 0.02/03/14 10:21 </td <td>Dibromofluoromethane (Surr)</td> <td>116</td> <td></td> <td>70 - 130</td> <td></td> <td></td> <td></td> <td>02/01/14 10:44</td> <td>02/01/14 14:49</td> <td>1</td>	Dibromofluoromethane (Surr)	116		70 - 130				02/01/14 10:44	02/01/14 14:49	1
Analyte	Toluene-d8 (Surr)	103		70 - 130				02/01/14 10:44	02/01/14 14:49	1
Analyte	Method: 8270D - Semivolatile	Organic Compou	nds (GC/M	S)						
Acenaphthylene	Analyte	the state of the s	The second second	-	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene ND 0.0938 0.0126 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Benzo[a]anthracene ND 0.0938 0.0210 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Benzo[a]plyrene ND 0.0938 0.0168 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Benzo[b]fluoranthene ND 0.0938 0.0168 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Benzo[b,fluoranthene ND 0.0938 0.0166 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Benzo[b,fluoranthene ND 0.0938 0.0166 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Benzo[b,fluoranthene ND 0.0938 0.0166 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 1-Methylnaphthalene 0.113 0.0938 0.0196 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 1-Methylnaphthalene 0.113 0.0938 0.0196 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 1-Methylnaphthalene 0.0562 J 0.0938 0.0168 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Phenanthrene 0.0565 J 0.0938 0.0166 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Dibenz(a,h)anthracene ND 0.0938 0.0166 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Dibenz(a,h)anthracene ND 0.0938 0.0166 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Fluoranthene ND 0.0938 0.0166 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Dibenz(a,h)anthracene ND 0.0938 0.0166 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Fluoranthene ND 0.0938 0.0166 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Dibenz(a,h)anthracene ND 0.0938 0.0166 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Dibenz(a,h)anthracene ND 0.0938 0.0166 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Fluoranthene ND 0.0938 0.0166 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Dibenz(a,h)anthracene ND 0.0938 0.0166 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Fluoranthene ND 0.0938 0.0166 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Dibenz(a,h)anthracene ND 0.0938 0.0166 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Terphanyl-thalene ND 0.0938 0.0166 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Dibenz(a,h)anthracene ND 0.0938 0.0166 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Dibenz(a,h)anthracene ND 0.0938 0.0166 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Dibenz(a,h)anthracene ND 0.0938 0.0166 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Dibenz(a,h)anthracene ND 0.0938 0.0166 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 D	Acenaphthene	ND		0.0938	0.0140	mg/Kg	17	02/03/14 10:21	02/03/14 18:49	1
Benzo[a]anthracene ND 0.0938 0.0210 mg/Kg 0.2/03/14 10:21 0.2/03/14 18:49 1	Acenaphthylene	ND		0.0938	0.0126	mg/Kg		02/03/14 10:21	02/03/14 18:49	1
Benzo[a]pyrene ND 0.0938 0.0168 mg/Kg	Anthracene	ND		0.0938	0.0126	mg/Kg	10	02/03/14 10:21	02/03/14 18:49	1
Benzo[b]fluoranthene	Benzo[a]anthracene	ND		0.0938	0.0210	mg/Kg	10	02/03/14 10:21	02/03/14 18:49	1
Benzo[b]fluoranthene	Benzo[a]pyrene	ND		0.0938	0.0168	mg/Kg	17	02/03/14 10:21	02/03/14 18:49	1
Benzo[k fluoranthene ND 0.0938 0.0196 mg/kg 0.2/03/14 10:21 0.2/03/14 18:49 1	Benzo[b]fluoranthene	ND		0.0938	0.0168		F	02/03/14 10:21	02/03/14 18:49	- 1
1-Methylnaphthalene	Benzo[g,h,i]perylene	ND		0.0938	0.0126	mg/Kg	- 11	02/03/14 10:21	02/03/14 18:49	1
Pyrene ND 0.0938 0.0168 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Phenanthrene 0.0562 J 0.0938 0.0126 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Chrysene ND 0.0938 0.0126 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Dibenz(a,h)anthracene ND 0.0938 0.00980 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Dibenz(a,h)anthracene ND 0.0938 0.0126 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Fluoranthene ND 0.0938 0.0126 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Indeno[1,2,3-cd]pyrene ND 0.0938 0.0168 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Indeno[1,2,3-cd]pyrene ND 0.0938 0.0140 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Naphthalene ND 0.0938 0.0140 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Naphthalene ND 0.0938 0.0126 mg/kg 0.2/03/14 10:21 02/03/14 18:49 1 Surrogate 9/Recovery Qualifier Limits Prepared Analyzed Dil Fac 2-Fluorobiphenyl (Surr) 76 13 - 120 02/03/14 10:21 02/03/14 18:49 1 Terphenyl-d14 (Surr) 76 13 - 120 02/03/14 10:21 02/03/14 18:49 1 General Chemistry Analyte Result Qualifier RL RL Unit D Prepared Analyzed Dil Fac	Benzo[k]fluoranthene	ND		0.0938	0.0196	mg/Kg	E	02/03/14 10:21	02/03/14 18:49	1
Phenanthrene	1-Methylnaphthalene	0.113		0.0938	0.0196	mg/Kg	77	02/03/14 10:21	02/03/14 18:49	1
Phenanthrene	Pyrene	ND		0.0938	0.0168	mg/Kg	D.	02/03/14 10:21	02/03/14 18:49	1
Dibenz(a,h)anthracene	Phenanthrene	0.0562	J	0.0938	0.0126	mg/Kg	0.	02/03/14 10:21	02/03/14 18:49	1
Fluoranthene ND 0.0938 0.0126 mg/Kg 02/03/14 10:21 02/03/14 18:49 1 ND 0.0938 0.0168 mg/Kg 02/03/14 10:21 02/03/14 18:49 1 Indeno[1,2,3-cd]pyrene ND 0.0938 0.0140 mg/Kg 02/03/14 10:21 02/03/14 18:49 1 ND 0.0938 0.0126 mg/Kg 02/03/14 10:21 02/03/14 18:49 1 ND 0.0938 0.0126 mg/Kg 02/03/14 10:21 02/03/14 18:49 1 2-Methylnaphthalene 0.0579 J 0.0938 0.0224 mg/Kg 02/03/14 10:21 02/03/14 18:49 1 2-Methylnaphthalene 0.0579 J 0.0938 0.0224 mg/Kg 02/03/14 10:21 02/03/14 18:49 1 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 02/03/14 10:21 02/03/14 18:49 1 Terphenyl-d14 (Surr) 66 29 - 120 02/03/14 10:21 02/03/14 18:49 1 Terphenyl-d14 (Surr) 76 13 - 120 02/03/14 10:21 02/03/14 18:49 1 Nitrobenzene-d5 (Surr) 59 27 - 120 02/03/14 10:21 02/03/14 18:49 1 General Chemistry Analyte Result Qualifier RL RL Unit D Prepared Analyzed Dil Fac	Chrysene	ND		0.0938	0.0126	mg/Kg	D.	02/03/14 10:21	02/03/14 18:49	1
Fluoranthene ND 0.0938 0.0126 mg/Kg 0.0/03/14 10:21 02/03/14 18:49 1 Fluorene ND 0.0938 0.0168 mg/Kg 0.0/03/14 10:21 02/03/14 18:49 1 Indeno[1,2,3-cd]pyrene ND 0.0938 0.0140 mg/Kg 0.0/03/14 10:21 02/03/14 18:49 1 Naphthalene ND 0.0938 0.0126 mg/Kg 0.0/03/14 10:21 02/03/14 18:49 1 2-Methylnaphthalene 0.0579 J 0.0938 0.0126 mg/Kg 0.0/03/14 10:21 02/03/14 18:49 1 2-Methylnaphthalene 0.0579 J 0.0938 0.0224 mg/Kg 0.0/03/14 10:21 02/03/14 18:49 1 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 02/03/14 10:21 02/03/14 18:49 1 Terphenyl-d14 (Surr) 66 29 - 120 02/03/14 10:21 02/03/14 18:49 1 Terphenyl-d14 (Surr) 76 13 - 120 02/03/14 10:21 02/03/14 18:49 1 Nitrobenzene-d5 (Surr) 59 27 - 120 02/03/14 10:21 02/03/14 18:49 1 General Chemistry Analyte Result Qualifier RL RL Unit D Prepared Analyzed Dil Fac	Dibenz(a,h)anthracene	ND		0.0938	0.00980	mg/Kg	0	02/03/14 10:21	02/03/14 18:49	1
Fluorene ND 0.0938 0.0168 mg/kg 02/03/14 10:21 02/03/14 18:49 1 indeno[1,2,3-cd]pyrene ND 0.0938 0.0140 mg/kg 02/03/14 10:21 02/03/14 18:49 1 Naphthalene ND 0.0938 0.0126 mg/kg 02/03/14 10:21 02/03/14 18:49 1 O2/03/14 (Surr) O2/03/14 10:21 02/03/14 18:49 1 O2/03/14 (Surr) O2/03/14 10:21 02/03/14 18:49 1 O2/03/14	Fluoranthene	ND		0.0938	0.0126	mg/Kg	п	02/03/14 10:21	02/03/14 18:49	- 1
ND 0.0938 0.0140 mg/kg 02/03/14 10:21 02/03/14 18:49 1 Naphthalene ND 0.0938 0.0126 mg/kg 02/03/14 10:21 02/03/14 18:49 1 1 1 1 1 1 1 1 1	Fluorene	ND		0.0938	0.0168	mg/Kg	a	02/03/14 10:21	02/03/14 18:49	1
Name	Indeno[1,2,3-cd]pyrene	ND		0.0938	0.0140	mg/Kg	12	02/03/14 10:21	02/03/14 18:49	1
2-Methylnaphthalene 0.0579 J 0.0938 0.0224 mg/Kg 02/03/14 10:21 02/03/14 18:49 1 Surrogate %Recovery Qualifier Limits Prepared Analyzed DII Fac 2-Fluorobiphenyl (Surr) 66 29 - 120 02/03/14 10:21 02/03/14 18:49 1 Terphenyl-d14 (Surr) 76 13 - 120 02/03/14 10:21 02/03/14 18:49 1 Nitrobenzene-d5 (Surr) 59 27 - 120 02/03/14 10:21 02/03/14 18:49 1 General Chemistry Analyte Result Qualifier RL RL Unit D Prepared Analyzed DII Fac	Naphthalene	ND		0.0938	0.0126	mg/Kg	.0	02/03/14 10:21	02/03/14 18:49	4
2-Fluorobiphenyl (Surr) 66 29 - 120 02/03/14 10:21 02/03/14 18:49 1 Terphenyl-d14 (Surr) 76 13 - 120 02/03/14 10:21 02/03/14 18:49 1 Nitrobenzene-d5 (Surr) 59 27 - 120 02/03/14 10:21 02/03/14 18:49 1 General Chemistry Analyte Result Qualifier RL RL Unit D Prepared Analyzed Dil Fac	2-Methylnaphthalene	0.0579	J	0.0938		17 10 10 10 10 10 10 10 10 10 10 10 10 10	(11)	02/03/14 10:21	02/03/14 18:49	1
2-Fluorobiphenyl (Surr) 66 29 - 120 02/03/14 10:21 02/03/14 18:49 1 Terphenyl-d14 (Surr) 76 13 - 120 02/03/14 10:21 02/03/14 18:49 1 Nitrobenzene-d5 (Surr) 59 27 - 120 02/03/14 10:21 02/03/14 18:49 1 General Chemistry Analyte Result Qualifier RL RL Unit D Prepared Analyzed Dil Fac	Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	DII Fac
Terphenyl-d14 (Surr) 76 13 - 120 02/03/14 10:21 02/03/14 18:49 1 Nitrobenzene-d5 (Surr) 59 27 - 120 02/03/14 10:21 02/03/14 18:49 1 General Chemistry Analyte Result Qualifier RL RL Unit D Prepared Analyzed Dil Fac	2-Fluorobiphenyl (Surr)	66		29 - 120				Land of the State	and the second of the second	
Nitrobenzene-d5 (Surr) 59 27 - 120 02/03/14 10:21 02/03/14 18:49 1 General Chemistry Analyte Result Qualifier RL RL Unit D Prepared Analyzed Dil Fac	Terphenyl-d14 (Surr)	76		13 - 120						
Analyte Result Qualifier RL RL Unit D Prepared Analyzed Dil Fac		59		27 - 120				02/03/14 10:21		
Analyte Result Qualifier RL RL Unit D Prepared Analyzed Dil Fac	General Chemistry									
	Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Percent Solids	70		0.10	0.10	%			1988 Service Schoolse Service School	1

TestAmerica Job ID: 490-45557-1

Client Sample Results

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project

Client Sample ID: 1352 Cardinal

Date Collected: 01/22/14 14:45 Date Received: 01/31/14 08:15 TestAmerica Job ID: 490-45557-1

Lab Sample ID: 490-45557-2

Matrix: Soil

Percent Solids: 85.7

ate received. o no may ob. to								i cident bon	us. 00.1
Method: 8260B - Volatile Orga	anic Compounds	(GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Benzene	ND		0.00211	0.000707	mg/Kg	п	02/01/14 10:44	02/01/14 15:18	1
Ethylbenzene	0.0303		0.00211	0.000707	mg/Kg	D	02/01/14 10:44	02/01/14 15:18	1
Naphthalene	1.18		0.310	0.106	mg/Kg	п	02/01/14 10:39	02/01/14 20:41	1
Toluene	ND		0.00211	0.000781	mg/Kg	U	02/01/14 10:44	02/01/14 15:18	1
Xylenes, Total	0.0189		0.00527	0.000707	mg/Kg	п	02/01/14 10:44	02/01/14 15:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	DII Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130				02/01/14 10:44	02/01/14 15:18	1
1,2-Dichloroethane-d4 (Surr)	72		70 - 130				02/01/14 10:39	02/01/14 20:41	1
4-Bromofluorobenzene (Surr)	426	* X	70 - 130				02/01/14 10:44	02/01/14 15:18	1
4-Bromofluorobenzene (Surr)	102		70 - 130				02/01/14 10:39	02/01/14 20:41	1
Dibromofluoromethane (Surr)	118		70 - 130				02/01/14 10:44	02/01/14 15:18	1
Dibromofluoromethane (Surr)	94		70 - 130				02/01/14 10:39	02/01/14 20:41	1
Toluene-d8 (Surr)	92		70 - 130				02/01/14 10:44	02/01/14 15:18	1
Toluene-d8 (Surr)	97		70 - 130				02/01/14 10:39	02/01/14 20:41	1
Method: 8270D - Semivolatile	Organic Compou	nds (GC/M	S)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Acenaphthene	ND		0.331	0.0494	mg/Kg	127	02/03/14 10:21	02/04/14 18:39	5
Acenaphthylene	ND		0.331	0.0445	mg/Kg	D	02/03/14 10:21	02/04/14 18:39	5
Anthracene	0.317	J	0.331	0.0445	mg/Kg	-13	02/03/14 10:21	02/04/14 18:39	5
Benzo[a]anthracene	ND		0.331	0.0742	mg/Kg	IT	02/03/14 10:21	02/04/14 18:39	5
Benzo[a]pyrene	ND		0.331	0.0593	mg/Kg	17	02/03/14 10:21	02/04/14 18:39	5
Benzo[b]fluoranthene	ND		0.331	0.0593	mg/Kg	1.2	02/03/14 10:21	02/04/14 18:39	5
Benzo[g,h,i]perylene	ND		0.331	0.0445	mg/Kg	41	02/03/14 10:21	02/04/14 18:39	5
Benzo[k]fluoranthene	ND		0.331	0.0692	mg/Kg	13	02/03/14 10:21	02/04/14 18:39	5
1-Methylnaphthalene	6.25		0,331	0.0692	mg/Kg	12	02/03/14 10:21	02/04/14 18:39	5
Pyrene	0.219	J	0.331	0.0593	mg/Kg	- 0	02/03/14 10:21	02/04/14 18:39	5
Phenanthrene	2.35		0.331	0.0445	mg/Kg	H	02/03/14 10:21	02/04/14 18:39	5
Chrysene	ND		0.331	0.0445	mg/Kg	EL.	02/03/14 10:21	02/04/14 18:39	5
Dibenz(a,h)anthracene	ND		0,331	0.0346	mg/Kg	ET.	02/03/14 10:21	02/04/14 18:39	5
Fluoranthene	ND		0.331	0.0445	mg/Kg	Ď.	02/03/14 10:21	02/04/14 18:39	5
Fluorene	ND		0.331	0.0593	mg/Kg	D)	02/03/14 10:21	02/04/14 18:39	5
Indeno[1,2,3-cd]pyrene	ND		0.331	0.0494	mg/Kg	B	02/03/14 10:21	02/04/14 18:39	5
Naphthalene	1.15		0.331	0.0445	mg/Kg	8	02/03/14 10:21	02/04/14 18:39	5
2-Methylnaphthalene	8.46		0.331	0.0791	mg/Kg	П	02/03/14 10:21	02/04/14 18:39	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	DII Fac
2-Fluorobiphenyl (Surr)	97		29 - 120				02/03/14 10:21	02/04/14 18:39	5
Terphenyl-d14 (Surr)	87		13 - 120				02/03/14 10:21	02/04/14 18:39	.5
Nitrobenzene-d5 (Surr)	79		27 - 120				02/03/14 10:21	02/04/14 18:39	5
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86		0.10	0.10	%			02/01/14 14:15	1

Client Sample Results

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-45557-1

Client Sample ID: 509 Laurel Bay

Date Collected: 01/23/14 12:15 Date Received: 01/31/14 08:15 Lab Sample ID: 490-45557-3

Matrix: Soil Percent Solids: 93.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Benzene	ND		0.00246	0.000825		d	02/01/14 10:44	02/01/14 15:47	1
Ethylbenzene	ND		0.00246	0.000825	mg/Kg	61	02/01/14 10:44	02/01/14 15:47	1
Naphthalene	0.00448	J	0.00616	0.00209	mg/Kg	10	02/01/14 10:44	02/01/14 15:47	1
Toluene	ND		0.00246	0.000911	mg/Kg	100	02/01/14 10:44	02/01/14 15:47	1
Xylenes, Total	ND		0.00616	0.000825		10	02/01/14 10:44	02/01/14 15:47	1
Surrogate	%Recovery	Qualifler	Limits				Prepared	Analyzed	DII Fac
1,2-Dichloroethane-d4 (Surr)	80		70 - 130				02/01/14 10:44	02/01/14 15:47	1
4-Bromofluorobenzene (Surr)	100		70 - 130				02/01/14 10:44	02/01/14 15:47	1
Dibromofluoromethane (Surr)	105		70 - 130				02/01/14 10:44	02/01/14 15:47	1
Toluene-d8 (Surr)	89		70 - 130				02/01/14 10:44	02/01/14 15:47	1
Method: 8270D - Semivolatile	Organic Compou	nds (GC/MS	5)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0668	0.00997	mg/Kg	D	02/03/14 10:21	02/03/14 20:26	1
Acenaphthylene	ND		0.0668	0.00897	mg/Kg	п	02/03/14 10:21	02/03/14 20:26	1
Anthracene	ND		0.0668	0.00897	mg/Kg	п	02/03/14 10:21	02/03/14 20:26	- 4
Benzo[a]anthracene	ND		0.0668	0.0150	mg/Kg	D.	02/03/14 10:21	02/03/14 20:26	1
Benzo[a]pyrene	ND		0.0668	0.0120	mg/Kg	п	02/03/14 10:21	02/03/14 20:26	-1
Benzo[b]fluoranthene	ND		0.0668	0.0120	mg/Kg	п	02/03/14 10:21	02/03/14 20:26	1
Benzo[g,h,i]perylene	ND		0.0668	0.00897	mg/Kg	20	02/03/14 10:21	02/03/14 20:26	1
Benzo[k]fluoranthene	ND		0.0668	0.0140	mg/Kg	0	02/03/14 10:21	02/03/14 20:26	1
1-Methylnaphthalene	ND		0.0668	0.0140	mg/Kg	=	02/03/14 10:21	02/03/14 20:26	1
Pyrene	ND		0.0668	0.0120	mg/Kg	H	02/03/14 10:21	02/03/14 20:26	1
Phenanthrene	ND		0.0668	0.00897	mg/Kg	- 2	02/03/14 10:21	02/03/14 20:26	1
Chrysene	ND		0.0868	0.00897	mg/Kg	13	02/03/14 10:21	02/03/14 20:26	1
Dibenz(a,h)anthracene	ND		0.0668	0.00698	mg/Kg	13	02/03/14 10:21	02/03/14 20:26	1
Fluoranthene	ND		0.0668	0.00897	mg/Kg	10	02/03/14 10:21	02/03/14 20:26	1
Fluorene	ND		0.0668	0.0120	mg/Kg	13	02/03/14 10:21	02/03/14 20:26	1
Indeno[1,2,3-cd]pyrene	ND		0.0668	0.00997	mg/Kg	(13)	02/03/14 10:21	02/03/14 20:26	1
Naphthalene	ND		0.0668	0.00897	mg/Kg	TB	02/03/14 10:21	02/03/14 20:26	1
2-Methylnaphthalene	ND		0.0668	0.0160	mg/Kg	TI.	02/03/14 10:21	02/03/14 20:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	DII Fac
2-Fluorobiphenyl (Surr)	63		29 - 120				02/03/14 10:21	02/03/14 20:26	1
Terphenyl-d14 (Surr)	74		13 - 120				02/03/14 10:21	02/03/14 20:26	1
Nitrobenzene-d5 (Surr)	64		27 - 120				02/03/14 10:21	02/03/14 20:26	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	DII Fac
Percent Solids	93		0.10	0.10	%			02/01/14 14:15	1

Client Sample Results

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project

Client Sample ID: 1463 Cardinal

Date Collected: 01/27/14 15:00 Date Received: 01/31/14 08:15 TestAmerica Job ID: 490-45557-1

Lab Sample ID: 490-45557-4

Matrix: Soil

Percent Solids: 84.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00241	0.000809	mg/Kg	D	02/01/14 10:44	02/04/14 14:28	1
Ethylbenzene	ND		0.00241	0.000809	mg/Kg	П	02/01/14 10:44	02/04/14 14:28	-1
Naphthalene	0.624		0.361	0.123	mg/Kg	32	02/01/14 10:39	02/04/14 19:11	1
Toluene	ND		0.00241	0.000893	mg/Kg	T.	02/01/14 10:44	02/04/14 14:28	t
Xylenes, Total	0.000872	J	0.00604	0.000809	mg/Kg	(I)	02/01/14 10:44	02/04/14 14:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	DII Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 130				02/01/14 10:44	02/04/14 14:28	1
1,2-Dichloroethane-d4 (Sum)	84		70 - 130				02/01/14 10:39	02/04/14 19:11	1
4-Bromofluorobenzene (Surr)	175	*X	70 - 130				02/01/14 10:44	02/04/14 14:28	1
4-Bromofluorobenzene (Surr)	110		70 - 130				02/01/14 10:39	02/04/14 19:11	1
Dibromofluoromethane (Surr)	93		70 - 130				02/01/14 10:44	02/04/14 14:28	1
Dibromofluoromethane (Surr)	87		70 - 130				02/01/14 10:39	02/04/14 19:11	1
Toluene-d8 (Surr)	139	X	70 - 130				02/01/14 10:44	02/04/14 14:28	1
Toluene-d8 (Surr)	122		70 - 130				02/01/14 10:39	02/04/14 19:11	1
Method: 8270D - Semivolatile	Organic Compou	nds (GC/M	S)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.333	0.0498	mg/Kg	23	02/03/14 10:21	02/04/14 19:04	5
Acenaphthylene	ND		0.333	0.0448	mg/Kg	13	02/03/14 10:21	02/04/14 19:04	5
Anthracene	ND		0.333	0.0448		177	02/03/14 10:21	02/04/14 19:04	5
Benzo[a]anthracene	0.269	J	0.333	0.0746	5 5	11	02/03/14 10:21	02/04/14 19:04	5
Benzo[a]pyrene	ND		0.333	0.0597	mg/Kg	9	02/03/14 10:21	02/04/14 19:04	5
Benzo[b]fluoranthene	0.376		0.333	0.0597	mg/Kg	П	02/03/14 10:21	02/04/14 19:04	5
Benzo[g,h,i]perylene	0.307	7	0.333	0.0448	mg/Kg	TI.	02/03/14 10:21	02/04/14 19:04	5
Benzo[k]fluoranthene	ND		0.333	0.0697	mg/Kg	111	02/03/14 10:21	02/04/14 19:04	5
1-Methylnaphthalene	ND		0.333	0.0697	mg/Kg	13	02/03/14 10:21	02/04/14 19:04	5
Pyrene	ND		0.333	0.0597	mg/Kg	H	02/03/14 10:21	02/04/14 19:04	5
Phenanthrene	ND		0.333	0.0448	mg/Kg	В.	02/03/14 10:21	02/04/14 19:04	5
Chrysene	0.271	J	0.333	0.0448	mg/Kg		02/03/14 10:21	02/04/14 19:04	5
Dibenz(a,h)anthracene	0.0618	J	0.333	0.0348	mg/Kg	D	02/03/14 10:21	02/04/14 19:04	5
Fluoranthene	ND		0.333	0.0448	mg/Kg	D	02/03/14 10:21	02/04/14 19:04	5
Fluorene	ND		0.333	0.0597	mg/Kg	D	02/03/14 10:21	02/04/14 19:04	5
Indeno[1,2,3-cd]pyrene	0.272	J	0.333	0.0498	mg/Kg	D	02/03/14 10:21	02/04/14 19:04	5
Naphthalene	ND		0.333	0.0448	mg/Kg	n	02/03/14 10:21	02/04/14 19:04	5
2-Methylnaphthalene	ND		0.333	0.0796	mg/Kg	п	02/03/14 10:21	02/04/14 19:04	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	DII Fac
2-Fluorobiphenyl (Surr)	82		29 - 120				02/03/14 10:21	02/04/14 19:04	5
Terphenyl-d14 (Surr)	57		13 - 120				02/03/14 10:21	02/04/14 19:04	5
Nitrobenzene-d5 (Surr)	54		27 - 120				02/03/14 10:21	02/04/14 19:04	5
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	DII Fac
Percent Solids	84		0.10	0.10	%			02/01/14 14:15	1

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-45557-1

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

Lab Sample ID: MB 490-138971/6

Matrix: Solid

Analysis Batch: 138971

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.100	0.0335	mg/Kg			02/01/14 11:52	1
Ethylbenzene	ND		0,100	0.0335	mg/Kg			02/01/14 11:52	1
Naphthalene	ND		0.250	0.0850	mg/Kg			02/01/14 11:52	1
Toluene	ND		0.100	0.0370	mg/Kg			02/01/14 11:52	1
Xylenes, Total	ND		0.250	0.0335	mg/Kg			02/01/14 11:52	1

Qualifier Limits Prepared Analyzed DII Fac %Recovery 70 - 130 1,2-Dichloroethane-d4 (Surr) 79 02/01/14 11:52 4-Bromofluorobenzene (Surr) 97 70 - 130 02/01/14 11:52 Dibromofluoromethane (Surr) 96 70 - 130 02/01/14 11:52 Toluene-d8 (Surr) 112 70 - 130 02/01/14 11:52

Lab Sample ID: MB 490-138971/7

Matrix: Solid

Surrogate

Analysis Batch: 138971

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

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			02/01/14 12:21	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			02/01/14 12:21	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			02/01/14 12:21	1
Toluene	ND		0.00200	0.000740	mg/Kg			02/01/14 12:21	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			02/01/14 12:21	1
	MB	мв							
Currogata	%Pacayen	Qualifiar	Limite				Propored	Analyzad	DII Foo

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	DII Fac
1,2-Dichloroethane-d4 (Surr)	100	70 - 130		02/01/14 12:21	1
4-Bromofluorobenzene (Surr)	106	70 - 130		02/01/14 12:21	1
Dibromofluoromethane (Surr)	129	70 - 130		02/01/14 12:21	1
Toluene-d8 (Surr)	86	70 - 130		02/01/14 12:21	1

Lab Sample ID: LCS 490-138971/3

Matrix: Solid

Analysis Batch: 138971

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

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.0500	0.05896		mg/Kg		118	75 - 127
Ethylbenzene	0.0500	0.05966		mg/Kg		119	80 - 134
Naphthalene	0.0500	0.05810		mg/Kg		116	69 - 150
Toluene	0.0500	0.05040		mg/Kg		101	80 - 132
Xylenes, Total	0.100	0.1126		mg/Kg		113	80 - 137

LCS LCS

Surrogate	%Recovery	Qualifler	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	124		70 - 130
Toluene-d8 (Surr)	84		70 - 130

TestAmerica Nashville

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Spike

Added

0.0500

0.0500

0.0500

0.0500

0.100

70 - 130

LCSD LCSD

0.05966

0.05449

0.05805

0.05470

0.1064

Result Qualifier

mg/Kg

mg/Kg

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-45557-1

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

Lab Sample ID: LCSD 490-138971/4

Matrix: Solid

Analyte

Benzene

Toluene

Ethylbenzene

Naphthalene

Xylenes, Total

Analysis Batch: 138971

Client Sample ID:	Lab	Control	Sample	Dup
		Dron Tu	no. Tota	LIBLA

Type: Total/NA

8

6

50

50

%Rec. Unit %Rec Limits RPD Limit 75 - 127 50 mg/Kg 119 mg/Kg 109 80 - 134 9 50 mg/Kg 116 69 - 150 0

80 - 132

80 - 137

109

106

LCSD LCSD %Recovery Qualifier Limits Surrogate 70 - 130 1,2-Dichloroethane-d4 (Surr) 100 4-Bromofluorobenzene (Surr) 102 70.130 Dibromofluoromethane (Surr) 111 70 - 130

95

MR MR

Lab Sample ID: MB 490-139335/7

Matrix: Solid

Toluene-d8 (Surr)

Analysis Batch: 139335

Client Sample ID: Method Blank

Prep Type: Total/NA

	III D	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.100	0.0335	mg/Kg			02/04/14 13:03	4
Ethylbenzene	ND		0.100	0.0335	mg/Kg			02/04/14 13:03	1
Naphthalene	ND		0.250	0.0850	mg/Kg			02/04/14 13:03	- 1
Toluene	ND		0.100	0.0370	mg/Kg			02/04/14 13:03	1
Xylenes, Total	ND		0.250	0.0335	mg/Kg			02/04/14 13:03	1

MB MB Limits Surrogate %Recovery Qualifier Prepared Analyzed Dil Fac 70 - 130 02/04/14 13:03 1,2-Dichloroethane-d4 (Surr) 88 107 70 - 130 02/04/14 13:03 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) 90 70 - 130 02/04/14 13:03 Toluene-d8 (Surr) 115 70 - 130 02/04/14 13:03

Lab Sample ID: MB 490-139335/8

Matrix: Solid

Analysis Batch: 139335

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

	INID	CALC							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Benzene	ND		0.00200	0.000670	mg/Kg			02/04/14 13:32	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			02/04/14 13:32	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			02/04/14 13:32	1
Toluene	ND		0.00200	0.000740	mg/Kg			02/04/14 13:32	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			02/04/14 13:32	1
	MR	MR							

	IND	IND				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	DII Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		02/04/14 13:32	1
4-Bromofluorobenzene (Surr)	101		70 - 130		02/04/14 13:32	1
Dibromofluoromethane (Surr)	91		70 - 130		02/04/14 13:32	1
Toluene-d8 (Surr)	113		70 - 130		02/04/14 13:32	1

TestAmerica Nashville

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Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-45557-1

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

Lab Sample ID: LCS 490-139335/4

Matrix: Solid

Analysis Batch: 139335

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LUS	LUS				WREC.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.0500	0.05363		mg/Kg		107	75 - 127
Ethylbenzene	0.0500	0.05520		mg/Kg		110	80 - 134
Naphthalene	0.0500	0.05747		mg/Kg		115	69 - 150
Toluene	0.0500	0.06116		mg/Kg		122	80 - 132
Xylenes, Total	0.100	0.1089		mg/Kg		109	80 - 137

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	93		70 - 130
Toluene-d8 (Surr)	117		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Solid

Matrix: Solid

Analysis Batch: 139335

Lab Sample ID: LCSD 490-139335/5

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.05551		mg/Kg		111	75 - 127	3	50
Ethylbenzene	0.0500	0.05824		mg/Kg		116	80 - 134	5	50
Naphthalene	0.0500	0.06417		mg/Kg		128	69 - 150	11	50
Toluene	0.0500	0.06539		mg/Kg		131	80 - 132	7	50
Xylenes, Total	0.100	0.1160		mg/Kg		116	80 - 137	6	50

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	93		70 - 130
Toluene-d8 (Surr)	119		70 - 130

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

Lab Sample ID: MB 490-139169/1-A

Analysis Batch: 139093

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 139169

Allalysis Datell. 100000									133103
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		02/03/14 10:21	02/03/14 18:00	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		02/03/14 10:21	02/03/14 18:00	1
Anthracene	ND		0.0670	0.00900	mg/Kg		02/03/14 10:21	02/03/14 18:00	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		02/03/14 10:21	02/03/14 18:00	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		02/03/14 10:21	02/03/14 18:00	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		02/03/14 10:21	02/03/14 18:00	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		02/03/14 10:21	02/03/14 18:00	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		02/03/14 10:21	02/03/14 18:00	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		02/03/14 10:21	02/03/14 18:00	1
Pyrene	ND		0.0670	0.0120	mg/Kg		02/03/14 10:21	02/03/14 18:00	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		02/03/14 10:21	02/03/14 18:00	1

TestAmerica Nashville

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Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-45557-1

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

Lab Sample ID: MB 490-139169/1-A

Matrix: Solid

Analysis Batch: 139093

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

Prep Batch: 139169

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.0670	0.00900	mg/Kg		02/03/14 10:21	02/03/14 18:00	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		02/03/14 10:21	02/03/14 18:00	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		02/03/14 10:21	02/03/14 18:00	1
Fluorene	ND		0.0670	0.0120	mg/Kg		02/03/14 10:21	02/03/14 18:00	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		02/03/14 10:21	02/03/14 18:00	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		02/03/14 10:21	02/03/14 18:00	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		02/03/14 10:21	02/03/14 18:00	1

MB MB

Surrogate	%Recovery Qualifler	Limits	Prepared	Analyzed	DII Fac
	/artecovery waamier				Diriac
2-Fluorobiphenyl (Surr)	94	29 - 120	02/03/14 10:21	02/03/14 18:00	1
Terphenyl-d14 (Surr)	107	13 - 120	02/03/14 10:21	02/03/14 18:00	1
Nitrobenzene-d5 (Surr)	92	27 - 120	02/03/14 10:21	02/03/14 18:00	1

Lab Sample ID: LCS 490-139169/2-A

Matrix: Solid

Analysis Batch: 139093

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 139169

A THE STATE OF THE PARTY OF THE	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.67	1,468		mg/Kg		88	38 - 120
Anthracene	1.67	1.454		mg/Kg		87	46 - 124
Benzo[a]anthracene	1.67	1.500		mg/Kg		90	45 - 120
Benzo[a]pyrene	1,67	1.474		mg/Kg		88	45 - 120
Benzo[b]fluoranthene	1,67	1.383		mg/Kg		83	42 - 120
Benzo[g,h,i]perylene	1.67	1.524		mg/Kg		91	38 - 120
Benzo[k]fluoranthene	1.67	1.548		mg/Kg		93	42 - 120
1-Methylnaphthalene	1.67	1.343		mg/Kg		81	32 - 120
Pyrene	1.67	1.537		mg/Kg		92	43 - 120
Phenanthrene	1.67	1.442		mg/Kg		87	45 - 120
Chrysene	1.67	1.516		mg/Kg		91	43 - 120
Dibenz(a,h)anthracene	1.67	1.551		mg/Kg		93	32 - 128
Fluoranthene	1.67	1.461		mg/Kg		88	46 - 120
Fluorene	1.67	1.439		mg/Kg		86	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.482		mg/Kg		89	41 - 121
Naphthalene	1.67	1.246		mg/Kg		75	32 - 120
2-Methylnaphthalene	1.67	1.311		mg/Kg		79	28 - 120

LCS LCS

Surrogate	%Recovery Qualifier	Limits
2-Fluorobiphenyl (Surr)	74	29 - 120
Terphenyl-d14 (Surr)	86	13 - 120
Nitrobenzene-d5 (Surr)	72	27 - 120

Lab Sample ID: 490-45557-1 MS

Matrix: Soil

Analysis Batch: 139093

Client S	Sampl	e ID:	340	Ash-2
	Pren	Type	To	tal/NA

Prep Batch: 139169

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	ND		2.30	2.195		mg/Kg	13	95	25 - 120
Anthracene	ND		2.30	2.146		mg/Kg	97	93	28 - 125

TestAmerica Nashville

Page 13 of 24

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-45557-1

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

Lab Sample ID: 490-45557-1 MS

Matrix: Soil

Analysis Batch: 139093

Client Sample ID: 340 Ash-2 Prep Type: Total/NA

Prep Batch: 139169

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzo[a]anthracene	ND		2.30	2.287		mg/Kg	13	99	23 - 120	
Benzo[a]pyrene	ND		2.30	2.213		mg/Kg	п	96	15 - 128	
Benzo[b]fluoranthene	ND		2.30	2.063		mg/Kg	17	90	12 - 133	
Benzo[g,h,i]perylene	ND		2.30	2.277		mg/Kg	7.7	99	22 - 120	
Benzo[k]fluoranthene	ND		2.30	2.190		mg/Kg	177	95	28 - 120	
1-Methylnaphthalene	0.113		2.30	2.052		mg/Kg	13	84	10 - 120	
Pyrene	ND		2.30	2.215		mg/Kg	12	96	20 - 123	
Phenanthrene	0.0562	J	2.30	2,136		mg/Kg	П	90	21 - 122	
Chrysene	ND		2.30	2.174		mg/Kg	EZ.	94	20 - 120	
Dibenz(a,h)anthracene	ND		2.30	2.408		mg/Kg	(2)	104	12 - 128	
Fluoranthene	ND		2.30	2,230		mg/Kg	a	97	10 - 143	
Fluorene	ND		2.30	2,168		mg/Kg	п	94	20 - 120	
Indeno[1,2,3-cd]pyrene	ND		2.30	2.250		mg/Kg		98	22 - 121	
Naphthalene	ND		2.30	1.887		mg/Kg	13	82	10 - 120	
2-Methylnaphthalene	0.0579	J	2.30	2.029		mg/Kg	D.	86	13 - 120	

MS MS

Surrogate	%Recovery Qualifier	Limits
2-Fluorobiphenyl (Surr)	83	29 - 120
Terphenyl-d14 (Surr)	94	13 - 120
Nitrobenzene-d5 (Surr)	83	27 - 120

Lab Sample ID: 490-45557-1 MSD

Matrix: Soil

Analysis Batch: 139093

Client Sample ID: 340 Ash-2

Prep Type: Total/NA Prep Batch: 139169

MSD MSD Spike Sample Sample %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Acenaphthylene ND 2.31 2.210 mg/Kg 96 25 - 120 50 ND 2.31 Anthracene 2.214 mg/Kg 96 28 - 125 3 49 ND H 2.31 2.300 99 23 - 120 Benzo[a]anthracene mg/Kg 50 1 Benzo[a]pyrene ND 2.31 2.215 mg/Kg 96 15 - 128 50 ND 2.31 91 12 - 133 Benzo[b]fluoranthene 2.102 mg/Kg 2 50 ND 2.31 2.286 22 - 120 Benzo[g,h,i]perylene mg/Kg 99 0 50 ND 2.31 2.232 97 28 - 120 Benzo[k]fluoranthene mg/Kg 2 45 1-Methylnaphthalene 0.113 2.31 2.147 mg/Kg 88 10 - 120 5 50 Pyrene ND 2.31 2.255 98 20 - 123 mg/Kg 2 50 0.0562 J 2.31 Phenanthrene 2.172 mg/Kg 91 21 - 122 2 50 Chrysene ND 2.31 2.214 mg/Kg 96 20 - 120 49 ND 2.31 2.365 Dibenz(a,h)anthracene mg/Kg 102 12 - 128 2 50 2.304 10 - 143 Fluoranthene ND 2.31 mg/Kg 100 50 Fluorene ND 2.31 2.173 mg/Kg 94 20 - 120 50 Indeno[1,2,3-cd]pyrene ND 2.31 2.220 mg/Kg 96 22 - 121 50 ND 2.31 1.981 Naphthalene mg/Kg 86 10 - 120 5 50 2-Methylnaphthalene 0.0579 J 2.31 2.103 mg/Kg 88 13 - 120 50

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	86		29 - 120
Terphenyl-d14 (Surr)	98		13 - 120

TestAmerica Nashville

Page 14 of 24

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-45557-1

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

Lab Sample ID: 490-45557-1 MSD Client Sample ID: 340 Ash-2 Matrix: Soil

Prep Type: Total/NA

Prep Batch: 139169 Analysis Batch: 139093 MSD MSD

Limits %Recovery Qualifier Surrogate Nitrobenzene-d5 (Surr) 27 - 120 89

Method: Moisture - Percent Moisture

Lab Sample ID: 490-45545-A-1 DU Client Sample ID: Duplicate Matrix: Solid Prep Type: Total/NA

Analysis Batch: 139043

Sample Sample DU DU Result Qualifier Result Qualifier Unit D Analyte RPD Limit 95 Percent Solids 94 % 20

QC Association Summary Client: Small Business Group Inc. TestAmerica Job ID: 490-45557-1 Project/Site: Laurel Bay Housing Project GC/MS VOA Analysis Batch: 138971 Client Sample ID Prep Type Matrix Method Prep Batch Lab Sample ID 490-45557-1 340 Ash-2 Total/NA Soil 8260B 139004 Total/NA 490-45557-2 1352 Cardinal Soil 8260B 139004 Total/NA 1352 Cardinal Soil 8260B 139003 490-45557-2 490-45557-3 509 Laurel Bay Total/NA Soil 8260B 139004 Total/NA Solid 8260B LCS 490-138971/3 Lab Control Sample Lab Control Sample Dup Total/NA Solid 8260B LCSD 490-138971/4 Total/NA Solid 8260B MB 490-138971/6 Method Blank MB 490-138971/7 Method Blank Total/NA Solid 8260B Prep Batch: 139003 Client Sample ID Prep Type Matrix Method Prep Batch Lab Sample ID 1352 Cardinal Total/NA Soil 5035 490-45557-2 490-45557-4 1463 Cardinal Total/NA Soil 5035 Prep Batch: 139004 Client Sample ID Prep Type Matrix Method Prep Batch Lab Sample ID Total/NA Soil 5035 490-45557-1 340 Ash-2 490-45557-2 1352 Cardinal Total/NA Soil 5035 490-45557-3 509 Laurel Bay Total/NA Soil 5035 490-45557-4 1463 Cardinal Total/NA Soil 5035 Analysis Batch: 139335 Client Sample ID Matrix Prep Type Method Prep Batch Lab Sample ID 490-45557-4 1463 Cardinal Total/NA Soil 8260B 139004 490-45557-4 1463 Cardinal Total/NA Soil 8260B 139003 LCS 490-139335/4 Lab Control Sample Total/NA Solid 8260B LCSD 490-139335/5 Lab Control Sample Dup Total/NA Solid 8260B MB 490-139335/7 Method Blank Total/NA Solid 8260B MB 490-139335/8 Method Blank Total/NA Solid 8260B GC/MS Semi VOA Analysis Batch: 139093 Lab Sample ID Client Sample ID Prep Type Matrix Method Prep Batch Total/NA 490-45557-1 340 Ash-2 Soil 8270D 139169 490-45557-1 MS 340 Ash-2 Total/NA Soil 8270D 139169 490-45557-1 MSD 340 Ash-2 Total/NA Soil 8270D 139169 509 Laurel Bay Total/NA Soil 8270D 139169 490-45557-3 LCS 490-139169/2-A Lab Control Sample Total/NA Solid 8270D 139169 MB 490-139169/1-A Method Blank Total/NA Solid 8270D 139169 Prep Batch: 139169 Prep Batch Client Sample ID Ргер Туре Matrix Method Lab Sample ID 340 Ash-2 Total/NA Soil 3550C 490-45557-1

TestAmerica Nashville

3550C

3550C

3550C

3550C

3550C

3550C

340 Ash-2

340 Ash-2

1352 Cardinal

509 Laurel Bay

1463 Cardinal

Lab Control Sample

490-45557-1 MS 490-45557-1 MSD

490-45557-2

490-45557-3 490-45557-4

LCS 490-139169/2-A

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Snil

Soil

Soil

Soil

Soil

Solid

QC Association Summary

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project

Client Sample ID

TestAmerica Job ID: 490-45557-1

Method

GC/MS Semi VOA (Continued)

Prep Batch: 139169 (Continued)

MB 490-139169/1-A	Method Blank	Total/NA	Solid	3550C	
Analysis Batch: 1393	92				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-45557-2	1352 Cardinal	Total/NA	Soil	8270D	139169
490-45557-4	1463 Cardinal	Total/NA	Soil	8270D	139169

Prep Type

Matrix

General Chemistry

Lab Sample ID

Analysis Batch: 139043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method
490-45545-A-1 DU	Duplicate	Total/NA	Solid	Moisture
490-45557-1	340 Ash-2	Total/NA	Soil	Moisture
490-45557-2	1352 Cardinal	Total/NA	Soil	Moisture
490-45557-3	509 Laurel Bay	Total/NA	Soil	Moisture
490-45557-4	1463 Cardinal	Total/NA	Soll	Moisture

Prep Batch

Prep Batch

Lab Chronicle

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-45557-1

Client Sample ID: 340 Ash-2

Client Sample ID: 1352 Cardinal

Date Collected: 01/22/14 14:45

Date Received: 01/31/14 08:15

Date Collected: 01/21/14 13:15 Date Received: 01/31/14 08:15

Lab Sample ID: 490-45557-1

Matrix: Soil

Percent Solids: 70.1

	Batch	Batch		DII	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.424 g	5.0 mL	139004	02/01/14 10:44	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5.424 g	5.0 mL	138971	02/01/14 14:49	SNR	TAL NSH
Total/NA	Prep	3550C			30.56 g	1.0 mL	139169	02/03/14 10:21	LP	TAL NSH
Total/NA	Analysis	8270D		1	30.56 g	1.0 mL	139093	02/03/14 18:49	KKH	TAL NSH
Total/NA	Analysis	Moisture		1			139043	02/01/14 14:15	JJS	TAL NSH

Lab Sample ID: 490-45557-2

Matrix: Soil

Percent Solids: 85.7

Batch Batch Dil Initial Final Batch Prepared Type Method Amount Prep Type Run Factor Amount Number or Analyzed Analyst Lab Total/NA 5035 5.53 g 5.0 mL 139004 Prep 02/01/14 10:44 JLP TAL NSH Total/NA Analysis 8260B 5.53 g 5.0 mL 138971 02/01/14 15:18 SNR TAL NSH 1 5.0 mL Total/NA Prep 5035 5.427 g 139003 JLP TAL NSH 02/01/14 10:39 Analysis 8260B 5.427 g 5.0 mL TAL NSH Total/NA 138971 02/01/14 20:41 SNR Total/NA Prep 3550C 35.40 g 1.0 mL 139169 02/03/14 10:21 LP TAL NSH 8270D Total/NA Analysis 5 35.40 g 1.0 mL 139392 02/04/14 18:39 TAL NSH KKH

Client Sample ID: 509 Laurel Bay Lab Sample ID: 490-45557-3

139043

Date Collected: 01/23/14 12:15

Total/NA

Analysis

Moisture

Date Received: 01/31/14 08:15

JJS

02/01/14 14:15

Matrix: Soil

TAL NSH

Percent Solids: 93.2

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.358 g	5.0 mL	139004	02/01/14 10:44	JLP	TAL NSH
Total/NA	Analysis	8260B		1	4.358 g	5.0 mL	138971	02/01/14 15:47	SNR	TAL NSH
Total/NA	Prep	3550C			32.28 g	1.0 mL	139169	02/03/14 10:21	LP	TAL NSH
Total/NA	Analysis	8270D		1	32.28 g	1.0 mL	139093	02/03/14 20:26	KKH	TAL NSH
Total/NA	Analysis	Moisture		4			139043	02/01/14 14:15	JJS	TAL NSH

Client Sample ID: 1463 Cardinal

Date Collected: 01/27/14 15:00

Date Received: 01/31/14 08:15

Lab Sample ID: 490-45557-4

Matrix: Soil

Percent Solids: 84.1

	Batch	Batch		DII	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.922 g	5.0 mL	139004	02/01/14 10:44	JLP	TAL NSH
Total/NA	Analysis	8260B		1	4.922 g	5.0 mL	139335	02/04/14 14:28	SNR	TAL NSH
Total/NA	Prep	5035			4.732 g	5.0 mL	139003	02/01/14 10:39	JLP	TAL NSH
Total/NA	Analysis	8260B		1	4.732 g	5.0 mL	139335	02/04/14 19:11	SNR	TAL NSH
Total/NA	Prep	3550C			35.82 g	1.0 mL	139169	02/03/14 10:21	LP	TAL NSH
Total/NA	Analysis	8270D		5	35.82 g	1.0 mL	139392	02/04/14 19:04	KKH	TAL NSH
Total/NA	Analysis	Moisture		1			139043	02/01/14 14:15	JJS	TAL NSH

TestAmerica Nashville

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Lab Chronicle

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-45557-1

Laboratory References:

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

TestAmerica Nashville

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Method Summary

Client: Small Business Group Inc.

Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-45557-1

Method Method Description

8260B Volatile Organic Compounds (GC/MS)
8270D Semivolatile Organic Compounds (GC/MS)

Moisture Percent Moisture

Protocol SW846 SW846

EPA

Laboratory TAL NSH TAL NSH 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

TestAmerica Nashville

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Certification Summary

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-45557-1

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program		EPA Region	Certification ID	Expiration Date
South Carolina	State Prog	gram	4	84009 (001)	02-28-14
The following analytes	are included in this report, bu	it are not certified unde	er this certification:		
Analysis Method	Prep Method	Matrix	Analy	te	
8270D	3550C	Soil	1-Met	hylnaphthalene	
8270D	3550C	Solid	1-Met	hylnaphthalene	
The following analytes	are included in this report, bu	t certification is not off	ered by the governing a	authority:	
Analysis Method	Prep Method	Malrix	Analyt	te	
Moisture		Soil	Perce	nt Solids	
Moisture		Solid	Perce	nt Solids	



THE LEADER IN ENVIRONMENTAL TESTING Nashville, TN

COOLER RECEIPT FORM

Charleston

Cooler Received/Opened On: 1. Tracking # 6636	The state of the s	
Courler: Fed-Ex	IR Gun ID: 14740456	490-45557 Chain of Custod
4.4.4.4.		Degrees Celsius
	C or less, was the representative sample or	
4. Were custody seals on out		EDNONA
If yes, how many and when	1500	
5. Were the seals intact, signe		₩E3NONA
		VES).NONA
6. Were custody papers insid		AT THE
	er and answered questions 1-6 (intial)	and Intact YESNO. (NA)
7. Were custody seals on con		
Were these signed and date		YESNO(NA)
	lewrap Plastic bag Peanuts Vermiculite	
9. Cooling process:	(Ce) Ice-pack Ice (direc	
10. Did all containers arrive in		ES .NONA
	complete (#, date, signed, pres., etc)?	ESNONA
	d tags agree with custody papers?	ESNONA
13a. Were VOA vials received		(ES)NONA
	e headspace present in any VOA vial?	YESNO(NA)
	this cooler? YES	ole coolers, sequence #
	oler and answered questions 7-14 (Intial)	
	test strips suggest preservation reached the	
b. Did the bottle labels indi	cate that the correct preservatives were use	d (ES)NONA
16. Was residual chlorine pres	sent?	YESNO
I certify that I checked for chlo	rine and pH as per SOP and answered quest	tions 15-16 (Intial)
17. Were custody papers prop	perly filled out (ink, signed, etc)?	(ES)NONA
18. Did you sign the custody p	papers in the appropriate place?	ESNONA
19. Were correct containers us	sed for the analysis requested?	NONA
20. Was sufficient amount of a	sample sent in each container?	ES NONA
certify that I entered this project	ect into LIMS and answered questions 17-20	(Intial) way
certify that I attached a label	with the unique LIMS number to each contain	ner (intial) MAVM

Relinquished by:	Special Instructions:					1	500 Laure	1352 Cadi	BHOASK-2	Sample ID / Description		Sampler	Sampler Name: (Print)	Telephon	Project	City		Client Name/	THE LEADER IN ENVIRONMENTAL TESTING	100+2
1/30/4 10					1, 1,	1/22/14/1500 5	BAY 1/23/14 1215 5	NA 11/22/14 1445 3	1/21/14 1315 5	Date Sampled Time Sampled No. of Containers Shippe	0 / 1		かったから	Telephone Number: 843,412,2097	Project Manager: Tom McElwee email: moelwee@eeginc.net	City/State/Zip: Ladson, SC 29456	Address: 10179 Highway 78	12	Nashville Division 2960 Foster Creighton RONMENTAL TESTING Nashville, TN 37204	210
Time Received by: Compared by TostAmerica:	Method of Shipment:					X	ر الا	2 2/	83	Grab Composite Field Filtared Ice HNO ₃ (Red Label)	Preservativa	/		-C/12-C/13-W	eginc.net				sion Phone: 615-726-0177 reighton Toll Free: 800-765-0980 37204 Fax: 615-726-3404	
Date Time	4						X X X	×	XXX	Wastewater Drinking Water Sludge Soil Other (specify): BTEX + Napth - 8260 PAH - 8270D	Matrix	Project#:	•	TA CHOPA #	PO#	Site State: SC				
	Laboratory Comments: Temperature Upon Receipt: 0 · 1 < VOCs Free of Headspace?										Analyze For:	Project #:	and Par Housing Prince	1	1000			Compliance Monitoring? Yes	To assist us in using the proper analytical methods, is this work being conducted for regulation in moses?	
	×	1	1			4	\$	1		RUSH TAT (Pre-Schedule Standard TAT Fax Results Send 96 with report	9							No		

45557

Job Number: 490-45557-1

Login Sample Receipt Checklist

Client: Small Business Group Inc.

Login Number: 45557 List Number: 1

Creator: McBride, Mike

STOSION INSUITACE, MINO		
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	0.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT A



NON-HAZARDOUS MANIFEST

	1. Generator's US EP.	A ID No.	Manifest Do	No.	2. Page 1	of	14	
NON-HĀZARDOUS MANIFEST					1	1		
3. Generator's Mailing Address.	Gen	erator's Site Address	(if different than	malling):	A. Manife	est Number	-	
MCAS BEAUFORT	-	icition 3 bite manifest	(ii dilici dili dilai		100000000000000000000000000000000000000	MNA	01519	1126
LAUREL BAY HOUSING					- VV			
BEAUFORT, SC 29904					1	B. State	Generator's	, ID
Programme Control of the Control	79-0411							
5. Transporter 1 Company Name	73-0411	6. US EP	A ID Number		-	- 350.00		
Carolina Contaracr.	,	0. 052.	A ID Hulliou		C. State T	ransporter's	ID	
PO.BOX 1925 BFL	SC 29901					orter's Phone		
7. Transporter 2 Company Name	10 2 1101	8. US EP	A ID Number			7 53		00
Commission stands and a series		100			E. State T	ransporter's	D	
					F. Transp	orter's Phone		
9. Designated Facility Name and Site	Address	10. US E	PA ID Numbe	r				
HICKORY HILL LANDFILL					G. State F	acility ID		
2621 LOW COUNTRY DRIVE					H. State F	acility Phone	843-9	987-4643
RIDGELAND, SC 29936					1000			
11. Description of Waste Materials			12. C	Containers	13. Total Quantity	14. Unit Wt./Vol.	1. N	lisc Comments
a. HEATING OIL TANK FILLED	MITH SAND		No.	туре	Quantity	AVE./ VOI.		
a. HEATING OIL TANK FILLED	WITH SAIND		1	2011	1700	TON	7207	474
14/22 0	file # 102655SC		-	1	1.01	7070	101	
b. WM Pro	me # 1020333C						-	
в.								
WM Profile #								
c.						-		
WM Profile #			1	4	3			
d.								
WM Profile #	And had been a							
J. Additional Descriptions for Mater	rials Listed Above		K. Dispo	sal Location				
			Cell	-			Level	
	Call Date of the Property of the	1-1-1-0	Grid	_	11.	F09	1	10
15. Special Handling Instructions and	Additional Information	2)340 1	1sh-2		4)	301	LAUG	LEI DN
D929 All	200 00-	2) 136	TZ CA	de	(-)	1463	Can	1 1
	MOURE		137 x 0 x 7 2 1 1 1 1 1	27	1 2	1702	CARE	110 15 1
Purchase Order #		EMERGENCY	CONTACT / PH	HONE NO.:				
16. GENERATOR'S CERTIFICATE:								
I hereby certify that the above-descri							w, have been	n fully and
accurately described, classified and p	ackaged and are in prop	Signature "On be		ording to ap	plicable regu	lations.	T server	
Printed Name	J. 20 d. 1	Signature On be	enall of	10 -			Month	Day Yea
17. Transporter 1 Acknowledgement	of Possint of Materials		7.1	7			1 ~	10 1
Printed Name /	or neceipt or iviaterials	Signature	0/11	1			Month	Day Yea
PRAH SLAN		Jignature	N/M	1			2	10 14
18. Transporter 2 Acknowledgement			11	0				1/7
Printed Name	o. necept of Materials	Signature	6	11	1		Month	Day Yea
/ · · · · · · · · · · · · · · · · · · ·	- L.	1	1	/ //	4		· ·	12 1
to roy Inal	Franc	x ne	es do	200	erl		14	10 1
19. Certificate of Final Treatment/Dis	sposal		/					
I certify, on behalf of the above listed			wledge, the a	bove-descri	bed waste w	as managed i	n compliand	e with all
applicable laws, regulations, permits			- 4-4-5	Y 1 2 1 1				
20. Facility Owner or Operator: Cert	ification of receipt of no	on-hazardous materia	s covered by t	this manifes	t,			
Printed Name	1	Signature	- 0	1 1-	1		Month	Day Yea
ball Cotted	N	Von		Tulo			2	10 1
White-TREATMENT, STORAGE, DISPO	OSAL FACILITY COPY	Blue- GENERAT	OR #2 COPY	X	Ye	llow- GENERA	TOR #1 CO	PΥ

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY

Appendix C Regulatory Correspondence





Catherine B. Templeton, Director Promoting and protesting the health of the public and the environment

October 1, 2014

Commanding Officer
Attention: NREAO Mr. William A. Drawdy
United State Marine Corps Air Station
Post Office Box 55001

Post Office Box 55001 Beaufort, SC 29904-5001

RE: No

No Further Action

Laurel Bay Underground Storage Tank Assessment Reports for:

See attached sheet

Dear Mr. Drawdy,

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

The Department has reviewed the referenced assessment reports and agrees there is no indication of soil or groundwater contamination on these properties, and therefore no further investigation is required at this time.

Please note that the Department's decision is based on information provided by the Marine Corps Air Station (MCAS) to date. Any information found to be contradictory to this decision may require additional action. Furthermore, the Department retains the right to request further investigation if deemed necessary.

If you have any questions, please contact me at kriegkm@dhec.sc.gov or 803-898-0255.

Sincerely,

Kent Krieg

Department of Defense Corrective Action Section

Bureau of Land and Waste Management

South Carolina Department of Health and Environmental Control

Cc: Russell Berry (via email)

Craig Ehde (via email)



Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

Attachment to:

Krieg to Drawdy

Subject: NFA

Dated 10/1/2014

Laurel Bay Underground Storage Tank Assessment Reports for: (3 addresses/4 tanks)

340 Ash Tank 1	509 Laurel Bay
340 Ash Tank 2	929 Albacore