SUMMARY REPORT

123 ELDERBERRY DRIVE (FORMERLY 410 ELDERBERRY DRIVE)

LAUREL BAY MILITARY HOUSING AREA

MARINE CORPS AIR STATION BEAUFORT

BEAUFORT, SC

Revision: 0 Prepared for:

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

and



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

Prepared by:



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

Contract Number: N62470-14-D-9016

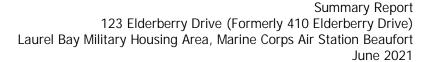
CTO WE52

JUNE 2021



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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 123 Elderberry Drive (Formerly 410 Elderberry Drive). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

1.1 Background Information

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





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

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

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

1.2 UST Removal and Assessment Process

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

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

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





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 123 Elderberry Drive (Formerly 410 Elderberry Drive). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 410 Elderberry Drive* (MCAS Beaufort, 2015). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On January 20, 2015, a single 280 gallon heating oil UST was removed from the concrete porch area at 123 Elderberry Drive (Formerly 410 Elderberry Drive). The former UST location is indicated on Figures 1 and 2 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of



the UST was 6'0" bgs and a single soil sample was collected from that depth. The sample was collected from the fill port side of the former UST to represent a worst case scenario.

Following UST removal, a soil sample was collected from the base of the excavation and shipped to an offsite laboratory for analysis of the petroleum COPCs. Sampling was performed in accordance with applicable South Carolina regulation R.61-92, Part 280 (SCDHEC) 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 123 Elderberry Drive (Formerly 410 Elderberry Drive) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 123 Elderberry Drive (Formerly 410 Elderberry Drive). This NFA determination was obtained in a letter dated July 1, 2015. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2015. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 410 Elderberry Drive, Laurel Bay Military Housing Area, March 2015.

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 123 Elderberry Drive (Formerly 410 Elderberry Drive) Laurel Bay Military Housing Area Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	SCDHEC RBSLs (1)	Results Sample Collected 01/20/15
Volatile Organic Compounds Analyze	d 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 An	alyzed 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.

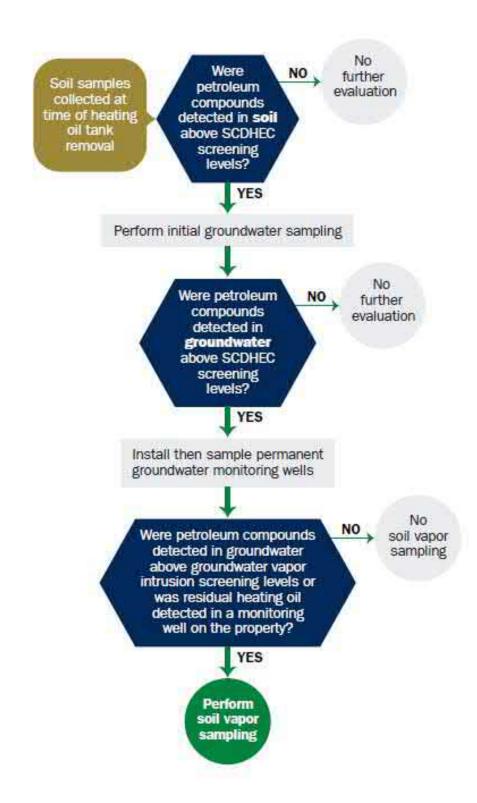
RBSL - Risk-Based Screening Level

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 3.0 and 3.1 (SCDHEC, May 2015 and SCDHEC, February 2016) and the Underground Storage Tank Assessment Guidelines (SCDHEC, February 2006).

Appendix A Multi-Media Selection Process for LBMH





Appendix A - Multi-Media Selection Process for LBMH

Appendix B UST Assessment Report



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

Date Received RECEIVED
State Use Only 2015

SC DHEC - Burezu of Land & Waste Management Submit Completed Form To: UST Program SCDHEC 2600 Bull Street Columbia, South Carolina 29201 Telephone (803) 896-7957



I. OWNERSHIP OF UST (S)

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

II. SITE IDENTIFICATION AND LOCATION

Downit I D. #				
Permit I.D. # Laurel Bay Milita	ry Housing Area A	Marine Corne	Air Station	Beaufort SC
Facility Name or Company	Site Identifier	Marrine Corps	All Scatton,	Beautort, BC
410 Elderberry Dr	ive, Laurel Bay M	ilitary Hous	ing Area	
Street Address or State Roa	d (as applicable)			
Beaufort,	Beaufort			
City	County			

Attachment 2

III. INSURANCE INFORMATION

Insurance Sta	atement
The petroleum release reported to DHEC on	habilitation activities. Before participation is the existence or non-existence of an environmental
Is there now, or has there ever been an insurance pol UST release? YES NO (check one)	icy or other financial mechanism that covers this
If you answered YES to the above question, I	please complete the following information:
My policy provider is: The policy deductible is: The policy limit is:	
If you have this type of insurance, please include a c	opy of the policy with this report.
V. CERTIFICATION (To	be signed by the UST owner)
I certify that I have personally examined and am famili attached documents; and that based on my inquiry of information, I believe that the submitted information is t	ar with the information submitted in this and a
Name (Type or print.)	
Signature	
To be completed by Notary Public:	
Sworn before me this day of,	20
(Name)	
Notary Public for the state of	_8.70
Please affix State seal if you are commissioned outside South	h Carolina

410 Elderberry
Heating oil
280 gal
Late 1950s
Steel
Mid 1980s
6'
No
No.
Removed
1/20/2015
Yes
Yes
from the ground (attach disposal manifests) d from the ground and disposed at a
achment "A".

VII. PIPING INFORMATION

	Elderberry	
	Steel	
Construction Material(ex. Steel, FRP)	& Copper	
Distance from UST to Dispenser	N/A	
Number of Dispensers	N/A	
Type of System Pressure or Suction	Suction	
Was Piping Removed from the Ground? Y/N	No	
Visible Corrosion or Pitting Y/N	Yes	
Visible Holes Y/N	ИО	
Age	Late 1950s	
If any corrosion, pitting, or holes were observ	ed, describe the location and exte	ent for each piping
Corrosion and pitting were for pipe. Copper supply and return	and the second of the second o	the steel ve
E-F-		
	CRIPTION AND HISTOR	
The USTs at the residences are	constructed of single	e wall steel
The USTs at the residences are and formerly contained fuel oi	constructed of single l for heating. These L	wall steel
The USTs at the residences are	constructed of single l for heating. These L	wall steel
The USTs at the residences are and formerly contained fuel oi	constructed of single l for heating. These L	wall steel
The USTs at the residences are and formerly contained fuel oi installed in the late 1950s and	constructed of single l for heating. These L	wall steel
The USTs at the residences are and formerly contained fuel of installed in the late 1950s and	constructed of single l for heating. These L	wall steel JSTs were

IX. SITE CONDITIONS

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

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA#
10 Elderb'y	Excav at fill end	Soil	Sandy	6'	1/20/15 1345 hrs	P. Shaw	
		/					
8							
9							
10							
11						4	
12							
13							
14							
15							
16							
17							
18							
19							
20							

^{* =} Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

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

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

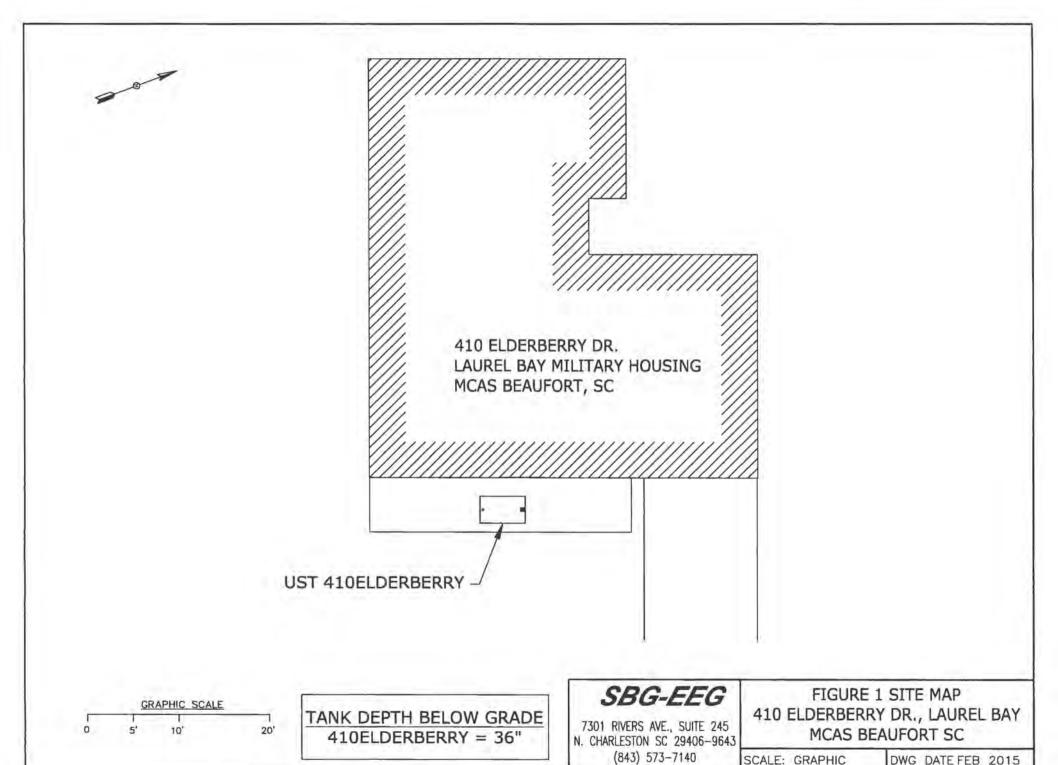
XII. RECEPTORS

		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?		Х
	If yes, indicate type of receptor, distance, and direction on site map.		
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		Х
	If yes, indicate type of well, distance, and direction on site map.		
C.	Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?		Х
	If yes, indicate type of structure, distance, and direction on site map.		Ш
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, electric	*X	
	cable, fiber optic & ge 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.		

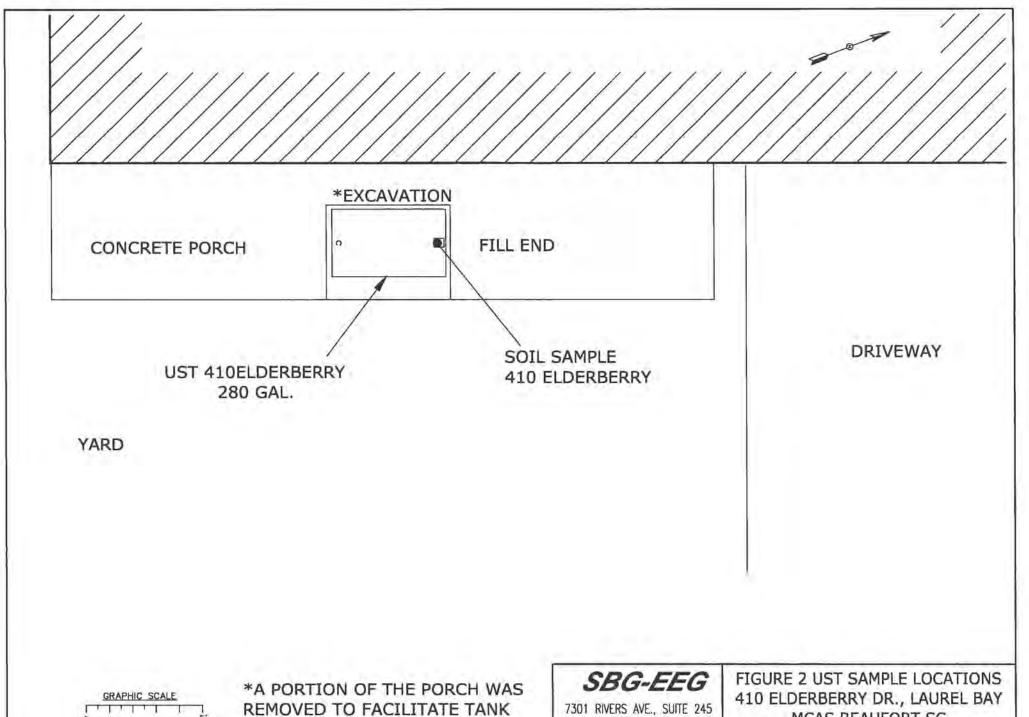
XIII. SITE MAP

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)



SCALE: GRAPHIC DWG DATE FEB 2015



EXTRACTION.

7301 RIVERS AVE., SUITE 245 N. CHARLESTON SC 29406-9643

(843) 573-7140

MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE FEB 2015



Picture 1: Location of UST 410Elderberry.



Picture 2: UST 410Elderberry excavation.



Picture 3: UST 410Elderberry ready for transport.



Picture 4: Site at completion of tank removal.

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	410Elderber	Y				
Benzene	ND					
Toluene	ND					
Ethylbenzene	ND					
Xylenes	ND					
Naphthalene	ND					
Benzo (a) anthracene	ND					
Benzo (b) fluoranthene	ND					
Benzo (k) fluoranthene	ND					
Chrysene	ND			1		
Dibenz (a, h) anthracene	ND					
TPH (EPA 3550)						
CoC						
Benzene						
Toluene						
Ethylbenzene		- 1	. 111			
Xylenes						
Naphthalene						
Benzo (a) anthracene						
Benzo (b) fluoranthene						
Benzo (k) fluoranthene						
Chrysene	1-1-17					
Dibenz (a, h) anthracene						
TPH (EPA 3550)					1	

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				
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)



ANALYTICAL REPORT

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

TestAmerica Job ID: 490-71072-1

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: 2/6/2015 4:57:39 PM

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

ken.hayes@testamericainc.com

..... LINKS

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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.

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Sample Summary

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-71072-1

9	
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-	

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-71072-1	420 Elderberry	Soil	01/19/15 12:45	01/23/15 08:40
490-71072-2	410 Elderberry	Soil	01/20/15 13:45	01/23/15 08:40
490-71072-3	317 Ash	Soil	01/21/15 14:30	01/23/15 08:40
490-71072-4	1213 Cardinal	Soil	01/22/15 11:15	01/23/15 08:40

Case Narrative

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-71072-1

Job ID: 490-71072-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-71072-1

Comments

No additional comments

Receip

The samples were received on 1/23/2015 8:40 AM: the samples arrived in good condition, properly preserved and, where required, on ice The temperature of the cooler at receipt was 3.6° C.

GC/MS VOA

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 223348. (LCS 490-223348/7)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270C; 8270C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 223441.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

4

Definitions/Glossary

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-71072-1

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.

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
CFL Contains Free Liquid
CNF Contains no Free Liquid

DER Duplicate error ratio (normalized absolute difference)

Dil Fac Dilution Facto

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)

5

Client Sample Results

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-71072-1

Client Sample ID: 420 Elderberry

Date Collected: 01/19/15 12:45 Date Received: 01/23/15 08:40 Lab Sample ID: 490-71072-1

Matrix: Soil

Percent Solids: 93.1

Method: 8260B - Volatile Orga	nic Compounds	(GC/MS)							
Analyte	A Committee of the Comm	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00223	0.000748	mg/Kg		01/19/15 12:45	01/27/15 21:16	1
Ethylbenzene	ND		0.00223	0.000748	mg/Kg		01/19/15 12:45	01/27/15 21:16	1
Naphthalene	ND		0.00558	0.00190	mg/Kg		01/19/15 12:45	01/27/15 21:16	(1)
Toluene	ND		0.00223	0.000827	mg/Kg		01/19/15 12:45	01/27/15 21:16	1
Xylenes, Total	ND		0.00335	0.000748	mg/Kg		01/19/15 12:45	01/27/15 21:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	DII Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130				01/19/15 12:45	01/27/15 21:16	1
4-Bromofluorobenzene (Surr)	125		70 - 130				01/19/15 12:45	01/27/15 21:16	1.
Dibromofluoromethane (Surr)	91		70 - 130				01/19/15 12:45	01/27/15 21:16	1
Toluene-d8 (Surr)	103		70 - 130				01/19/15 12:45	01/27/15 21:16	1
Method: 8270D - Semivolatile	Organic Compou	nds (GC/MS	S)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0642	0.00959	mg/Kg	17	01/28/15 08:04	01/28/15 16:54	1
Acenaphthylene	ND		0.0642	0.00863	mg/Kg	- 1	01/28/15 08:04	01/28/15 16:54	1
Anthracene	ND		0.0642	0.00863	mg/Kg	100	01/28/15 08:04	01/28/15 16:54	1
Benzo[a]anthracene	ND		0.0642	0.0144	mg/Kg	10	01/28/15 08:04	01/28/15 16:54	1.0
Benzo[a]pyrene	ND		0.0642	0.0115	mg/Kg	0	01/28/15 08:04	01/28/15 16:54	1
Benzo(b)fluoranthene	ND		0.0642	0.0115	mg/Kg	- 10	01/28/15 08:04	01/28/15 16:54	1
Benzo[g,h,i]perylene	ND		0.0642	0.00863	mg/Kg		01/28/15 08:04	01/28/15 16:54	1
Benzo[k]fluoranthene	ND		0.0642	0.0134	mg/Kg		01/28/15 08:04	01/28/15 16:54	1
1-Methylnaphthalene	ND		0.0642	0.0134	mg/Kg	30	01/28/15 08:04	01/28/15 16:54	3.
Pyrene	ND		0.0642	0.0115	mg/Kg		01/28/15 08:04	01/28/15 16:54	1
Phenanthrene	ND		0.0642	0.00863	mg/Kg	(12)	01/28/15 08:04	01/28/15 16:54	3
Chrysene	ND		0.0642	0.00863	mg/Kg	C	01/28/15 08:04	01/28/15 16:54	1
Dibenz(a,h)anthracene	ND		0.0642	0.00671	mg/Kg	77	01/28/15 08:04	01/28/15 16:54	1
Fluoranthene	ND		0,0642	0.00863	mg/Kg	0.00	01/28/15 08:04	01/28/15 16:54	1
Fluorene	ND		0.0642	0.0115	mg/Kg	300	01/28/15 08:04	01/28/15 16:54	9
Indeno[1,2,3-cd]pyrene	ND		0.0642	0.00959	mg/Kg	0	01/28/15 08:04	01/28/15 16:54	1
Naphthalene	ND		0.0642	0.00863	mg/Kg	300	01/28/15 08:04	01/28/15 16:54	á.
2-Methylnaphthalene	ND		0.0642	0.0153	mg/Kg	10	01/28/15 08:04	01/28/15 16:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	DII Fac
2-Fluorobiphenyl (Surr)	68		29 - 120				01/28/15 08:04	01/28/15 16:54	1
Terphenyl-d14 (Surr)	67		13 - 120				01/28/15 08:04	01/28/15 16:54	1
Nitrobenzene-d5 (Surr)	71		27 - 120				01/28/15 08:04	01/28/15 16:54	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93		0.10	0.10	%			01/23/15 15:41	1

TestAmerica Nashville

Client Sample Results

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-71072-1

Client Sample ID: 410 Elderberry

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

Date Collected: 01/20/15 13:45 Date Received: 01/23/15 08:40

Surrogate

Analyte

Percent Solids

2-Fluorobiphenyl (Sum)

Nitrobenzene-d5 (Surr)

General Chemistry

Terphenyl-d14 (Surr)

Lab Sample ID: 490-71072-2

Analuzad

Matrix: Soil Percent Solids: 95.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00210	0.000705	mg/Kg	11	01/20/15 13:45	01/27/15 20:45	1
Ethylbenzene	ND		0.00210	0.000705	mg/Kg	7	01/20/15 13:45	01/27/15 20:45	1
Naphthalene	ND		0.00526	0.00179	mg/Kg	-	01/20/15 13:45	01/27/15 20:45	1
Toluene	ND		0.00210	0.000778	mg/Kg		01/20/15 13:45	01/27/15 20:45	1
Xylenes, Total	ND		0.00316	0.000705	mg/Kg		01/20/15 13:45	01/27/15 20:45	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130				01/20/15 13:45	01/27/15 20:45	1
4-Bromofluorobenzene (Surr)	128		70 - 130				01/20/15 13:45	01/27/15 20:45	1
Dibromofluoromethane (Surr)	91		70 - 130				01/20/15 13:45	01/27/15 20:45	1
Toluene-d8 (Surr)	102		70 - 130				01/20/15 13:45	01/27/15 20:45	1
Method: 8270D - Semivolatile	Organic Compou	nds (GC/M	S)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0697	0.0104	mg/Kg	11	01/24/15 10:50	01/25/15 19:34	1
Acenaphthylene	ND		0.0697	0.00936	mg/Kg		01/24/15 10:50	01/25/15 19:34	1
Anthracene	ND		0.0697	0.00936	mg/Kg	1000	01/24/15 10:50	01/25/15 19:34	1
Benzo[a]anthracene	ND		0.0697	0.0156	mg/Kg	117	01/24/15 10:50	01/25/15 19:34	1
Benzo[a]pyrene	ND		0.0697	0.0125	mg/Kg	97.	01/24/15 10:50	01/25/15 19:34	1
Benzo[b]fluoranthene	ND		0.0697	0.0125	mg/Kg	179	01/24/15 10:50	01/25/15 19:34	1.1
Benzo[g,h,i]perylene	ND		0.0697	0.00936	mg/Kg	(ti)	01/24/15 10:50	01/25/15 19:34	1
Benzo[k]fluoranthene	ND		0.0697	0.0146	mg/Kg	10.6	01/24/15 10:50	01/25/15 19:34	1
1-Methylnaphthalene	ND		0.0697	0.0146	mg/Kg	101	01/24/15 10:50	01/25/15 19:34	1
Pyrene	ND		0.0697	0.0125	mg/Kg	17	01/24/15 10:50	01/25/15 19:34	1
Phenanthrene	ND		0.0697	0.00936	mg/Kg		01/24/15 10:50	01/25/15 19:34	1
Chrysene	ND		0.0697	0.00936	mg/Kg	101	01/24/15 10:50	01/25/15 19:34	1
Dibenz(a,h)anthracene	ND		0.0697	0.00728	mg/Kg		01/24/15 10:50	01/25/15 19:34	1
Fluoranthene	ND		0.0697	0.00936	mg/Kg		01/24/15 10:50	01/25/15 19:34	1
Fluorene	ND		0.0697	0.0125	mg/Kg		01/24/15 10:50	01/25/15 19:34	1
Indeno[1,2,3-cd]pyrene	ND		0.0697	0.0104	mg/Kg		01/24/15 10:50	01/25/15 19:34	1
Naphthalene	ND		0.0697	0.00936	mg/Kg		01/24/15 10:50	01/25/15 19:34	1
2-Methylnaphthalene	ND		0.0697	0.0166	mg/Kg		01/24/15 10:50	01/25/15 19:34	4

Limits

29 - 120

13 - 120

27 _ 120

RL

0.10

RL Unit

0.10 %

%Recovery Qualifier

57

56

54

95

Result Qualifier



Dil Fac

Dil Fac

Analyzed

01/25/15 19:34

01/25/15 19:34

01/25/15 19:34

Analyzed

01/23/15 15:41

Prepared

01/24/15 10:50

01/24/15 10:50

01/24/15 10:50

Prepared

The state of the s									
Method: 8260B - Volatile Orga	nic Compounds	(GC/MS)							
Analyte	the state of the s	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00210	0.000703	mg/Kg	100	01/21/15 14:30	01/27/15 20:15	7
Ethylbenzene	ND		0.00210	0.000703	mg/Kg	1	01/21/15 14:30	01/27/15 20:15	1
Naphthalene	0.00232	J	0.00524	0.00178	mg/Kg	1.0	01/21/15 14:30	01/27/15 20:15	1
Toluene	ND		0.00210	0.000776	mg/Kg	100	01/21/15 14:30	01/27/15 20:15	- 1
Xylenes, Total	ND		0.00315	0.000703	mg/Kg	11	01/21/15 14:30	01/27/15 20:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	DII Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130				01/21/15 14:30	01/27/15 20:15	1
4-Bromofluorobenzene (Surr)	129		70 - 130				01/21/15 14:30	01/27/15 20:15	1
Dibromofluoromethane (Surr)	93		70 - 130				01/21/15 14:30	01/27/15 20:15	1
Toluene-dB (Surr)	102		70 - 130				01/21/15 14:30	01/27/15 20:15	1
Method: 8270D - Semivolatile	Organic Compou	nds (GC/M	SI						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0548	J	0.0819	0.0122	mg/Kg	13	01/24/15 10:50	01/25/15 19:56	1
Acenaphthylene	ND		0.0819	0.0110		10	01/24/15 10:50	01/25/15 19:56	4
Anthracene	ND		0.0819	0.0110		10	01/24/15 10:50	01/25/15 19:56	1
Benzo[a]anthracene	0.0632	J	0.0819	0.0183	mg/Kg		01/24/15 10:50	01/25/15 19:56	4
Benzo[a]pyrene	ND		0.0819	0.0147	mg/Kg	100	01/24/15 10:50	01/25/15 19:56	1
Benzo[b]fluoranthene	0.0446	J	0.0819	0.0147	mg/Kg		01/24/15 10:50	01/25/15 19:56	Ť.
Benzo[g,h,i]perylene	ND		0.0819	0.0110	mg/Kg	12	01/24/15 10:50	01/25/15 19:56	1
Benzo[k]fluoranthene	ND		0.0819	0.0171	mg/Kg	10.0	01/24/15 10:50	01/25/15 19:56	4
1-Methylnaphthalene	0.347		0.0819	0.0171	mg/Kg	101	01/24/15 10:50	01/25/15 19:56	1
Pyrene	0.132		0.0819	0.0147	mg/Kg		01/24/15 10:50	01/25/15 19:56	1
Phenanthrene	0.246		0.0819	0.0110	mg/Kg	1104	01/24/15 10:50	01/25/15 19:56	1
Chrysene	0.0623	J	0.0819	0.0110	mg/Kg	43	01/24/15 10:50	01/25/15 19:56	1
Dibenz(a,h)anthracene	ND		0.0819	0.00856	mg/Kg	102	01/24/15 10:50	01/25/15 19:56	1
Fluoranthene	0.160		0.0819	0.0110	mg/Kg	III	01/24/15 10:50	01/25/15 19:56	1
Fluorene	0.0964		0.0819	0.0147	mg/Kg	30	01/24/15 10:50	01/25/15 19:56	1
Indeno[1,2,3-cd]pyrene	ND		0.0819	0.0122	mg/Kg	700	01/24/15 10:50	01/25/15 19:56	1
Naphthalene	ND		0.0819	0.0110	mg/Kg	151	01/24/15 10:50	01/25/15 19:56	1
2-Methylnaphthalene	0.538		0.0819	0.0196	mg/Kg		01/24/15 10:50	01/25/15 19:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	DII Fac
2-Fluorobiphenyl (Surr)	75		29 - 120				01/24/15 10:50	01/25/15 19:56	1
Terphenyl-d14 (Surr)	72		13 - 120				01/24/15 10:50	01/25/15 19:56	1
Nitrobenzene-d5 (Surr)	69		27 - 120				01/24/15 10:50	01/25/15 19:56	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81	200	0.10	0.10	%			01/23/15 15:41	1

Client Sample Results

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-71072-1

Client Sample ID: 1213 Cardinal

Date Collected: 01/22/15 11:15 Date Received: 01/23/15 08:40 Lab Sample ID: 490-71072-4

Matrix: Soil

Percent Solids: 89.9

Date Received, O M20110 00.40								i diddin ddin	40.00.0	
Method: 8260B - Volatile Org	anic Compounds	(GC/MS)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.00222	0.000743	mg/Kg	12	01/22/15 11:15	01/27/15 19:44	1	
Ethylbenzene	ND		0.00222	0.000743	mg/Kg	10	01/22/15 11:15	01/27/15 19:44	1	
Naphthalene	ND		0.00554	0.00188	mg/Kg	100	01/22/15 11:15	01/27/15 19:44	1	
Toluene	ND		0.00222	0.000820	mg/Kg	TI	01/22/15 11:15	01/27/15 19:44	1	
Xylenes, Total	ND		0.00333	0.000743	mg/Kg		01/22/15 11:15	01/27/15 19:44	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	97		70 - 130				01/22/15 11:15	01/27/15 19:44	1	
4-Bromofluorobenzene (Surr)	125		70 - 130				01/22/15 11:15	01/27/15 19:44	1	
Dibromofluoromethane (Surr)	95		70 - 130				01/22/15 11:15	01/27/15 19:44	1	
Toluene-d8 (Surr)	103		70 - 130				01/22/15 11:15	01/27/15 19:44	1	
Method: 8270D - Semivolatile	Organic Compou	inds (GC/MS	S)							
Analyte	All the second s	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Acenaphthene	ND		0.0655	0.00977	mg/Kg	10	01/28/15 08:04	01/28/15 17:17	1	
Acenaphthylene	0.110		0.0655	0.00880	mg/Kg	1.0	01/28/15 08:04	01/28/15 17:17	-1	
Anthracene	ND		0.0655	0.00880	mg/Kg	.10	01/28/15 08:04	01/28/15 17:17	1	
Benzo[a]anthracene	0.0191	J	0.0655	0.0147	mg/Kg	.03	01/28/15 08:04	01/28/15 17:17	4	
Benzo[a]pyrene	0.0176	J	0.0655	0.0117	mg/Kg	170	01/28/15 08:04	01/28/15 17:17	1	
Benzo[b]fluoranthene	0.109		0.0655	0.0117	mg/Kg	100	01/28/15 08:04	01/28/15 17:17	1	
Benzo[g,h,i]perylene	0.127		0.0655	0.00880	mg/Kg	0.0	01/28/15 08:04	01/28/15 17:17	1	
Benzo[k]fluoranthene	0.0141	.1	0.0655	0.0137	mg/Kg	13	01/28/15 08:04	01/28/15 17:17	1	
1-Methylnaphthalene	ND		0.0655	0.0137	mg/Kg	1	01/28/15 08:04	01/28/15 17:17	1	
Pyrene	ND		0.0655	0.0117	mg/Kg	0.0	01/28/15 08:04	01/28/15 17:17	1	
Phenanthrene	0.0502	J	0.0655	0.00880	mg/Kg	1	01/28/15 08:04	01/28/15 17:17	1	
Chrysene	0.0675		0.0655	0.00880	mg/Kg		01/28/15 08:04	01/28/15 17:17	1	
Dibenz(a,h)anthracene	ND		0.0655	0.00684	mg/Kg		01/28/15 08:04	01/28/15 17:17	4	
Fluoranthene	ND		0.0655	0.00880	mg/Kg		01/28/15 08:04	01/28/15 17:17	1	
Fluorene	ND		0.0655	0.0117	mg/Kg		01/28/15 08:04	01/28/15 17:17	1	
Indeno[1,2,3-cd]pyrene	0.0943		0.0655	0.00977	mg/Kg		01/28/15 08:04	01/28/15 17:17	1	
Naphthalene	ND		0.0655	0.00880	mg/Kg		01/28/15 08:04	01/28/15 17:17	1	
2-Methylnaphthalene	ND		0,0655	0.0156	mg/Kg		01/28/15 08:04	01/28/15 17:17	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	DII Fac	
2-Fluorobiphenyl (Surr)	79		29 - 120				01/28/15 08:04	01/28/15 17:17	1	
Terphenyl-d14 (Surr)	67		13 - 120				01/28/15 08:04	01/28/15 17:17	1	
Nitrobenzene-d5 (Surr)	69		27 - 120				01/28/15 08:04	01/28/15 17:17	1	
General Chemistry										
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Percent Solids	90		0.10	0.10	%			01/23/15 15:41	1	

Project/Site: Laurel Bay Housing Project

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

Lab Sample ID: MB 490-223348/9 Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 223348

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			01/27/15 19:14	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			01/27/15 19:14	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			01/27/15 19:14	1
Toluene	ND		0.00200	0.000740	mg/Kg			01/27/15 19:14	1
Xylenes, Total	ND		0.00300	0.000670	mg/Kg			01/27/15 19:14	1

	MB MB				
Surrogate	Recovery Qualifier	Limits	Prepared	Analyzed	DII Fac
1,2-Dichloroethane-d4 (Surr)	85	70 - 130		01/27/15 19:14	1
4-Bromofluorobenzene (Surr)	122	70 - 130		01/27/15 19:14	1
Dibromofluoromethane (Surr)	91	70 - 130		01/27/15 19:14	1
Toluene-d8 (Surr)	105	70 - 130		01/27/15 19.14	1

Lab Sample ID: LCS 490-223348/7 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 223348

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifler	Unit	D	%Rec	Limits
Benzene	0.0500	0.04471		mg/Kg		89	75 - 127
Ethylbenzene	0.0500	0.05084		mg/Kg		102	80 - 134
Naphthalene	0.0500	0.06157		mg/Kg		123	69 - 150
Toluene	0.0500	0.04702		mg/Kg		94	80 - 132
Xvlenes, Total	0.100	0.09620		ma/Ka		96	80 - 137

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	123		70 - 130
Dibromofluoromethane (Surr)	92		70 - 130
Toluene-d8 (Surr)	103		70 - 130

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

Lab Sample ID: MB 490-222681/1-A Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA

Prep Batch: 222681 Analysis Batch: 222860

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Anthracene	ND		0.0670	0.00900	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Pyrene	ND		0.0670	0.0120	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		01/24/15 10:50	01/25/15 17:19	1

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

Lab Sample ID: MB 490-222681/1-A

Matrix: Solid

Analysis Batch: 222860

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

Prep Batch: 222681

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.0670	0.00900	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Fluorene	ND		0.0670	0.0120	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		01/24/15 10:50	01/25/15 17:19	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	DII Fac
2-Fluorobiphenyl (Surr)	68	29 - 120	01/24/15 10:50	01/25/15 17:19	1
Terphenyl-d14 (Surr)	64	13 - 120	01/24/15 10:50	01/25/15 17:19	1
Nitrobenzene-d5 (Surr)	67	27 - 120	01/24/15 10:50	01/25/15 17:19	1

Lab Sample ID: LCS 490-222681/2-A

Matrix: Solid

Analysis Batch: 222860

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 222681

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Acenaphthylene	1.67	1.264		mg/Kg		76	38 - 120	
Anthracene	1.67	1.269		mg/Kg		76	46 - 124	
Benzo[a]anthracene	1.67	1.301		mg/Kg		78	45 - 120	
Benzo[a]pyrene	1.67	1.269		mg/Kg		76	45 - 120	
Benzo[b]fluoranthene	1.67	1.301		mg/Kg		78	42 - 120	
Benzo[g,h,i]perylene	1.67	1.471		mg/Kg		88	38 - 120	
Benzo[k]fluoranthene	1.67	1.217		mg/Kg		73	42 - 120	
1-Methylnaphthalene	1.67	1.214		mg/Kg		73	32 - 120	
Pyrene	1.67	1.211		mg/Kg		73	43 - 120	
Phenanthrene	1.67	1.255		mg/Kg		75	45 - 120	
Chrysene	1.67	1.287		mg/Kg		77	43 - 120	
Dibenz(a,h)anthracene	1.67	1.434		mg/Kg		86	32 - 128	
Fluoranthene	1.67	1,231		mg/Kg		74	46 - 120	
Fluorene	1.67	1,305		mg/Kg		78	42 - 120	
Indeno[1,2,3-cd]pyrene	1.67	1.426		mg/Kg		86	41 - 121	
Naphthalene	1.67	1.244		mg/Kg		75	32 - 120	
2-Methylnaphthalene	1.67	1.204		mg/Kg		72	28 - 120	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	69		29 - 120
Terphenyl-d14 (Surr)	63		13 - 120
Nitrobenzene-d5 (Surr)	69		27 - 120

Lab Sample ID: LCSD 490-222681/16-A

Matrix: Solid

Analysis Batch: 222860

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

Prep Batch: 222681

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	1.67	1.291		mg/Kg		77	38 - 120	2	50
Anthracene	1.67	1.297		mg/Kg		78	46 - 124	2	49

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

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

Lab Sample ID: LCSD 490-222681/16-A

Matrix: Solid

Analysis Batch: 222860

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

Prep Batch: 222681

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzo[a]anthracene	1.67	1.316		mg/Kg		79	45 - 120	1	50
Benzo[a]pyrene	1.67	1.263		mg/Kg		76	45 - 120	1	50
Benzo[b]fluoranthene	1.67	1.335		mg/Kg		80	42 - 120	3	50
Benzo[g,h,i]perylene	1.67	1.500		mg/Kg		90	38 - 120	2	50
Benzo[k]fluoranthene	1.67	1.242		mg/Kg		75	42 - 120	2	45
1-Methylnaphthalene	1.67	1.239		mg/Kg		74	32 - 120	2	50
Pyrene	1.67	1.232		mg/Kg		74	43 - 120	2	50
Phenanthrene	1.67	1.286		mg/Kg		77	45 - 120	2	50
Chrysene	1.67	1.278		mg/Kg		77	43 - 120	1	49
Dibenz(a,h)anthracene	1.67	1.461		mg/Kg		88	32 - 128	2	50
Fluoranthene	1.67	1,269		mg/Kg		76	46 - 120	3	50
Fluorene	1.67	1.332		mg/Kg		80	42 - 120	2	50
Indeno[1,2,3-cd]pyrene	1.67	1.462		mg/Kg		88	41 - 121	2	50
Naphthalene	1.67	1,257		mg/Kg		75	32 - 120	1	50
2-Methylnaphthalene	1.67	1.230		mg/Kg		74	28 - 120	2	50

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	68		29 - 120
Terphenyl-d14 (Surr)	63		13 - 120
Nitrobenzene-d5 (Surr)	70		27 - 120

Lab Sample ID: 490-70903-B-2-C MS

Matrix: Solid

Analysis Batch: 222860

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 222681

Spike MS MS %Rec. Sample Sample Unit %Rec Limits Result Qualifier Added Result Qualifier D Analyte 83 25 - 120 Acenaphthylene ND 1.86 1.544 mg/Kg ND 1.86 1.570 mg/Kg 84 28 - 125 Anthracene ND 1.86 1.644 mg/Kg 88 23 - 120 Benzo[a]anthracene 84 15 - 128 ND 1.86 1.564 mg/Kg Benzo[a]pyrene Benzo[b]fluoranthene ND 1.86 1.651 mg/Kg 89 12 - 133 101 22 - 120 Benzo[g,h,i]perylene ND 1.86 1.877 mg/Kg 28 - 120 ND 1.86 83 Benzo[k]fluoranthene 1.536 mg/Kg 83 10 - 120 1-Methylnaphthalene 0.07441.86 1.626 mg/Kg ND 1.86 1.520 82 20 - 123 Pyrene mg/Kg ND mg/Kg 84 21 - 122 Phenanthrene 1.86 1.558 86 20 - 120 Chrysene ND 1.86 1.609 mg/Kg ND 1.86 1.829 98 12 - 128 Dibenz(a,h)anthracene mg/Kg ND 1.86 1.559 84 10 - 143 Fluoranthene mg/Kg 20 - 120 86 Fluorene ND 1.86 1.596 mg/Kg Indeno[1,2,3-cd]pyrene ND 1.86 1.792 mg/Kg 96 22 - 121 Naphthalene ND 1.86 1.515 mg/Kg 81 10 - 120 2-Methylnaphthalene 0.110 1,86 1.690 mg/Kg 13 - 120

MS MS

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	64		29 - 120
Terphenyl-d14 (Surr)	67		13 - 120

Client Sample ID: Matrix Spike

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

Lab Sample ID: 490-70903-B-2-C MS

Matrix: Solid

Analysis Batch: 222860

%Recovery Qualifier Limits Surrogate 27 - 120 Nitrobenzene-d5 (Surr) 71

Lab Sample ID: 490-70903-B-2-D MSD

Matrix: Solid

Analysis Batch: 222860

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 222681

Prep Type: Total/NA

Prep Batch: 222681

The state of the s	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	ND		1.86	1,432		mg/Kg	17	77	25 - 120	8	50
Anthracene	ND		1.86	1.431		mg/Kg		77	28 - 125	9	49
Benzo[a]anthracene	ND		1.86	1,463		mg/Kg		79	23 - 120	12	50
Benzo[a]pyrene	ND		1.86	1.417		mg/Kg	11	76	15 - 128	10	50
Benzo[b]fluoranthene	ND		1.86	1.523		mg/Kg	1.0	82	12 - 133	8	50
Benzo[g,h,i]perylene	ND		1.86	1.650		mg/Kg	.01	89	22 - 120	13	50
Benzo[k]fluoranthene	ND		1.86	1.354		mg/Kg	11	73	28 - 120	13	45
1-Methylnaphthalene	0.0744		1.86	1.476		mg/Kg	E	75	10 - 120	10	50
Pyrene	ND		1.86	1.356		mg/Kg	E	73	20 - 123	11	50
Phenanthrene	ND		1.86	1.419		mg/Kg	E	76	21 - 122	9	50
Chrysene	ND		1.86	1.454		mg/Kg	- 0	78	20 - 120	10	49
Dibenz(a,h)anthracene	ND		1.86	1.620		mg/Kg	0	87	12 - 128	12	50
Fluoranthene	ND		1.86	1.391		mg/Kg	-	75	10 - 143	11	50
Fluorene	ND		1.86	1,463		mg/Kg	0	79	20 - 120	9	50
Indeno[1,2,3-cd]pyrene	ND		1.86	1.575		mg/Kg	-0	85	22 - 121	13	50
Naphthalene	ND		1.86	1.424		mg/Kg	10	77	10 - 120	6	50
2-Methylnaphthalene	0.110		1.86	1.531		mg/Kg	0.0	76	13 - 120	10	50

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	63		29 - 120
Terphenyl-d14 (Surr)	59		13 - 120
Nitrobenzene-d5 (Surr)	66		27 - 120

Lab Sample ID: MB 490-223441/1-A

Matrix: Solid

Analysis Batch: 223527

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 223441

ALL STATE OF THE S	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Anthracene	ND		0.0670	0.00900	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Pyrene	ND		0.0670	0.0120	mg/Kg		01/28/15 08:04	01/28/15 14:16	- 1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Chrysene	ND		0.0670	0.00900	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		01/28/15 08:04	01/28/15 14:16	1

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

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

Lab Sample ID: MB 490-223441/1-A

Matrix: Solid

Analysis Batch: 223527

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

TestAmerica Job ID: 490-71072-1

Prep Batch: 223441

	IND	1410							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.0670	0.00900	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Fluorene	ND		0.0670	0.0120	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
	MB	MB							

MR MR

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	73	29 - 120	01/28/15 08:04	01/28/15 14:16	1
Terphenyl-d14 (Surr)	75	13 - 120	01/28/15 08:04	01/28/15 14:16	1
Nitrobenzene-d5 (Surr)	76	27 - 120	01/28/15 08:04	01/28/15 14:16	1

Lab Sample ID: LCS 490-223441/2-A

Matrix: Solid

Analysis Batch: 223527

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 223441

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.67	1.247		mg/Kg		75	38 - 120
Anthracene	1.67	1.294		mg/Kg		78	46 - 124
Benzo[a]anthracene	1.67	1.302		mg/Kg		78	45 - 120
Benzo[a]pyrene	1.67	1.275		mg/Kg		76	45 - 120
Benzo[b]fluoranthene	1,67	1.294		mg/Kg		78	42 - 120
Benzo[g,h,i]perylene	1,67	1 285		mg/Kg		77	38 - 120
Benzo[k]fluoranthene	1.67	1.193		mg/Kg		72	42 - 120
1-Methylnaphthalene	1.67	1.116		mg/Kg		67	32 - 120
Pyrene	1.67	1.269		mg/Kg		76	43 - 120
Phenanthrene	1.67	1.252		mg/Kg		75	45 - 120
Chrysene	1.67	1.244		mg/Kg		75	43 - 120
Dibenz(a,h)anthracene	1.67	1.353		mg/Kg		81	32 - 128
Fluoranthene	1.67	1.252		mg/Kg		75	46_120
Fluorene	1.67	1.261		mg/Kg		76	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.287		mg/Kg		77	41 - 121
Naphthalene	1.67	1.116		mg/Kg		67	32 - 120
2-Methylnaphthalene	1.67	1 192		mg/Kg		72	28 - 120

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	71		29 - 120
Terphenyl-d14 (Surr)	73		13 - 120
Nitrobenzene-d5 (Surr)	70		27 - 120

Method: Moisture - Percent Moisture

Lab Sample ID: 490-71052-D-4 DU

Matrix: Solid

Analyte

Percent Solids

Analysis Batch: 222558

Sample	Sample	DU	DU				RPD
Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
86		87		%		0.9	20

TestAmerica Nashville

Prep Type: Total/NA

Client Sample ID: Duplicate

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2/6/2015

QC Association Summary

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-71072-1

Prep Batch

GC/MS VOA

Prep	Batch:	222793
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-71072-1	420 Elderberry	Total/NA	Soil	5035	
490-71072-2	410 Elderberry	Total/NA	Soil	5035	
490-71072-3	317 Ash	Total/NA	Soil	5035	
490-71072-4	1213 Cardinal	Total/NA	Soil	5035	
Analysis Batch: 223	348				

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-71072-1	420 Elderberry	Total/NA	Soil	8260B	222793
490-71072-2	410 Elderberry	Total/NA	Soil	8260B	222793
490-71072-3	317 Ash	Total/NA	Soil	8260B	222793
490-71072-4	1213 Cardinal	Total/NA	Soil	8260B	222793
LCS 490-223348/7	Lab Control Sample	Total/NA	Solid	8260B	
MB 490-223348/9	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 222681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	i
490-70903-B-2-C MS	Matrix Spike	Total/NA	Solid	3550C	
490-70903-B-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
490-71072-2	410 Elderberry	Total/NA	Sail	3550C	
490-71072-3	317 Ash	Total/NA	Soil	3550C	
LCS 490-222681/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 490-222681/16-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
MB 490-222681/1-A	Method Blank	Tolal/NA	Solid	3550C	

Analysis Batch: 222860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-70903-B-2-C MS	Matrix Spike	Total/NA	Solid	8270D	222681
490-70903-B-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	222681
490-71072-2	410 Elderberry	Total/NA	Soil	8270D	222681
490-71072-3	317 Ash	Total/NA	Soil	8270D	222681
LCS 490-222681/2-A	Lab Control Sample	Total/NA	Solid	8270D	222681
LCSD 490-222681/16-A	Lab Control Sample Dup	Tolal/NA	Solid	8270D	222681
MB 490-222681/1-A	Method Blank	Total/NA	Solid	8270D	222681

Prep Batch: 223441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-71072-1	420 Elderberry	Total/NA	Soil	3550C	
490-71072-4	1213 Cardinal	Total/NA	Soil	3550C	
LCS 490-223441/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-223441/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 223527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-71072-1	420 Elderberry	Total/NA	Soil	8270D	223441
490-71072-4	1213 Cardinal	Total/NA	Soil	8270D	223441
LCS 490-223441/2-A	Lab Control Sample	Total/NA	Solid	8270D	223441
MB 490-223441/1-A	Method Blank.	Total/NA	Solid	8270D	223441

TestAmerica Nashville

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2/6/2015

QC Association Summary

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

TestAmerica Job ID: 490-71072-1

General Chemistry

Analysis Batch: 222558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-71052-D-4 DU	Duplicate	Total/NA	Solid	Moisture	10000
490-71052-D-4 MS	Matrix Spike	Total/NA	Solid	Moisture	
490-71052-D-4 MSD	Matrix Spike Duplicate	Total/NA	Solid	Moisture	
490-71072-1	420 Elderberry	Total/NA	Soil	Moisture	
490-71072-2	410 Elderberry	Total/NA	Soil	Moisture	
490-71072-3	317 Ash	Total/NA	Soil	Moisture	
490-71072-4	1213 Cardinal	Total/NA	Soll	Moisture	

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

Client Sample ID: 420 Elderberry

Date Collected: 01/19/15 12:45 Date Received: 01/23/15 08:40 Lab Sample ID: 490-71072-1

Matrix: Soil

Percent Solids: 93.1

	Batch	Batch		DII	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4,806 g	5.0 mL	222793	01/19/15 12:45	JLP	TAL NSH
Total/NA	Analysis	8260B		1	4.806 g	5.0 mL	223348	01/27/15 21:16	JMG	TAL NSH
Total/NA	Prep	3550C			33,60 g	1.00 mL	223441	01/28/15 08:04	RMS	TAL NSH
Total/NA	Analysis	8270D		,	33.60 g	1.00 mL	223527	01/28/15 16:54	SNR	TAL NSH
Total/NA	Analysis	Moisture		3			222558	01/23/15 15:41	RRS	TAL NSH

Client Sample ID: 410 Elderberry

Date Collected: 01/20/15 13:45 Date Received: 01/23/15 08:40 Lab Sample ID: 490-71072-2

Matrix: Soil Percent Solids: 95.2

	Batch	Batch		Dil	(nitia)	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.994 g	5.0 mL	222793	01/20/15 13:45	JLP	TAL NSH
Total/NA	Analysis.	8260B		1	4.994 g	5.0 mL	223348	01/27/15 20:45	JMG	TAL NSH
Total/NA	Prep	3550C			30,29 g	1 mL	222681	01/24/15 10:50	LDC	TAL NSH
Total/NA	Analysis	82700		1	30,29 g	1 mL	222860	01/25/15 19:34	BES	TAL NSH
Total/NA	Analysis	Moisture		7			222558	01/23/15 15:41	RRS	TAL NSH

Client Sample ID: 317 Ash

Date Collected: 01/21/15 14:30

Date Received: 01/23/15 08:40

Lab Sample ID: 490-71072-3

Matrix: Soil

Percent Solids: 81.0

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.881 g	5.0 mL	222793	01/21/15 14:30	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5.881 g	5.0 mL	223348	01/27/15 20:15	JMG	TAL NSH
Total/NA	Prep	3550C			30.27 g	1 mL	222881	01/24/15 10:50	LDC	TAL NSH
Total/NA	Analysis	8270D		1	30.27 g	1 mL	222860	01/25/15 19:56	BES	TAL NSH
Total/NA	Analysis	Moisture		1			222558	01/23/15 15:41	RRS	TAL NSH

Client Sample ID: 1213 Cardinal

Date Collected: 01/22/15 11:15

Date Received: 01/23/15 08:40

Lab Sample ID: 490-71072-4

Matrix: Soil Percent Solids: 89.9

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Tolal/NA	Prep	5035			5.016 g	5.0 mL	222793	01/22/15 11:15	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5.016 g	5.0 mL	223348	01/27/15 19:44	JMG	TAL NSH
Total/NA	Prep	3550C			34,14 g	1.00 mL	223441	01/28/15 08:04	RMS	TAL NSH
Total/NA	Analysis	8270D		.1	34,14 g	1.00 mL	223527	01/28/15 17:17	SNR	TAL NSH
Total/NA	Analysis	Moisture		7			222558	01/23/15 15:41	RRS	TAL NSH

Laboratory References:

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

Method Summary

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-71072-1

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

10

Certification Summary

Client: Small Business Group Inc.

Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-71072-1

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
North Carolina (WW/SW)	State Prog	ram	4	387	12-31-15
The following analytes ar	re included in this report, bu	t certification is not off	ered by the governing a	authority:	
Analysis Method	Prep Method	Matrix	Analy	e	
Moisture		Soil	Perce	nt Solids	
South Carolina	State Prog	ram	4	84009 (001)	02-28-15
The following analytes ar	re included in this report, bu	t certification is not off	ered by the governing	authority:	
Analysis Method	Prep Method	Matrix	Analy	e	
8270D	3550C	Soil	1-Met	hylnaphthalene	
Moisture		Soil	Perce	nt Solids	



COOLER RECEIPT FORM

Charleston



Cooler Received/Opened On 1/23/2015 @ 0840 490-71072	2 Chain of Custody
1. Tracking # 1/13 (last 4 digits, FedEx)	
Courier: FedEx IR Gun ID 12080142	
2. Temperature of rep. sample or temp blank when opened: 3 & Degrees Celsius	
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen	7 YES NONA
4. Were custody seals on outside of cooler? If yes, how many and where: ONE Front & Back	(YE)NONA
5. Were the seals intact, signed, and dated correctly?	YES NONA
6. Were custody papers inside cooler?	(YES.).NONA
I certify that I opened the cooler and answered questions 1-6 (intial)	
7. Were custody seals on containers; YES and Intact	YESNO.
Were these signed and dated correctly?	YESNO.
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper	er Other None
9. Cooling process: (ce) Ice-pack Ice (direct contact) Dry ic	e Other None
10. Did all containers arrive in good condition (unbroken)?	₩3NONA
11. Were all container labels complete (#, date, signed, pres., etc)?	ESNONA
12. Did all container labels and tags agree with custody papers?	(ES)NONA
13a. Were VOA vials received?	ES).NONA
b. Was there any observable headspace present in any VOA vial?	YESNO. NA
14. Was there a Trip Blank in this cooler? YESO.NA If multiple coolers, sequen	nce #
I certify that I unloaded the cooler and answered questions 7-14 (intial)	mom
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	ESNONA
16. Was residual chlorine present?	YESNO
I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)	Many
17. Were custody papers properly filled out (ink, signed, etc)?	ES NONA
18. Did you sign the custody papers in the appropriate place?	MES NONA
19. Were correct containers used for the analysis requested?	ES NONA
20. Was sufficient amount of sample sent in each container?	ES NONA
I certify that I entered this project into LIMS and answered questions 17-20 (intial)	many
I certify that I attached a label with the unique LIMS number to each container (intial)	mam
21. Were there Non-Conformance issues at login? YES(NO) Was a NCM generated? YES.(NOT#

Hed by 1/20	Relinquished by:				7 7	1213 CARDENA 1/25/17	317 Ash 1 1/2/1	410 Electer Waste	420 Elderbures 1/19/1	Sample ID / Description Date Sampled		Sampler Signature:	Sampler Name: (Print)	Telephone Number: 843.412.2087	Project Manager: Tom McElwee email: mcelwee@eeginc.net	City/State/Zip: Ladson, SC 29456	Address: 10179 Highway 78	Client Name/Account #: SBG - EEG # 2449	THE LEADER IN ENVIRONMENTAL TESTING
15 1400 Time	Note:					1115 5 X	1430 5 X	1345 5 1	5 1245 5 1	Time Sampled No. of Containers Shipper Grab Composite Field Filtered	-	18/11/16	BOAL Show		email: moelwee@eeginc.net	9456	ay 78	2449	Nashville Division 2960 Foster Creighton Nashville, TN 37204
Received by TestAmerica:	Method of Shipment:		/		,	20.	ال الم	رع	2 21	Ice HNO ₂ (Red Label) MSI-(Situa Label) NaOH (Orange Label) H ₂ SO ₄ Plastic (Yetlow Label) H ₂ SO ₄ Glass(Yetlow Label) None (Black Label) Other (Specify) MpAA	Preservative	,/	(Fax No. (843) 879-1					Phone: 615-726-0177 Toll Free: 800-765-0980 Fax: 615-728-3404
	PEDEX TH					X	スマン	XX	XX	Wastewater Drinking Water Sludge Soil Other (specify) BTEX + Napth - 8266	Matrix	Pn	Pro	1040 IAO		Situ			
Тітв	Time					×	<i>x</i> ·	×	X	PAH - 8270D	Analyze For:	Project#:	Project ID; Laurel Bay Housing Project	TA Quote #:	90H 1408	ne State: SC	Enforcement Action?	Compliance Monitoring?	To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
	× z	7				4	3	2	-/	RUSH TAT (Pre-Schedul Standard TAT Fax Results	е						Yes No	Yes No	

71072

2/6/2015

13

Job Number: 490-71072-1

List Source: TestAmerica Nashville

Login Sample Receipt Checklist

Client: Small Business Group Inc.

Login Number: 71072

List Number: 1

Creator: McBride, Mike

Strates Manifest Mine		
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	3.6
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

The state of	Aleksina Vernisa	1. Generator's l	JS EPA ID No.	Manifest Do	c No.	2. Page 1	l of			
NON-HA	AZARDOUS MANIFEST						1			
3. Generate	or's Mailing Address:	-	Generator's Site Add	tress III dillerent than	malline):	A. Manif	est Number			_
MCAS BE			Generator a Site Aut	areas (ir billerent thai	maning):	1 1 1 1 1 1 1 1 1		0454	0407	
LAUREL E	BAY HOUSING					V	VMNA	01519		
7.35/ 15.50	RT, SC 29904						B. State	Generator's	5 ID	
4. Generate		379-0411								
	ter 1 Company Name		- 6. L	JS EPA ID Number		-		_		
	Carried States	- 40 1 As	0.	DE LI A ID NUMBER		C State	Fransporter's	ID.		
725	SA: (A) -	EGE					orter's Phone			_
7. Transpor	ter 2 Company Name	723	8. (IS EPA ID Number			3 - 1 -		27720	_
31 Transpor	ter a company rume			o zi ri je ridinje,			ransporter's l		9.000	_
							orter's Phane			-
9. Designat	ed Facility Name and Site	e Address	10.	US EPA ID Numbe	r	17 1741138	orter 3 more			_
COLUMN TO A STATE OF THE STATE	HILL LANDFILL					G. State	Facility ID			
	V COUNTRY DRIVE						Facility Phone	042 (987-464	2
	ND, SC 29936		12			n. state	racility Phone	043-3	707-404	3
	,									
11 Decerle	tion of Waste Materials			12.	Containers	13. Total	14 Unit		line France	
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19. Certifica	ate of Final Treatment/Di	sposal		1						
certify, on	behalf of the above listed	treatment facility,	that to the best of m	knowledge, the a	bove-descr	bed waste w	as managed in	n complianc	e with all	
	aws, regulations, permits					and make by		1000		
20. Facility	Owner or Operator: Cert	ification of receipt	of non-hazardous ma	erials covered by	this manifes	t.				
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Appendix C Regulatory Correspondence





Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

July 1, 2015

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

RE: No Further Action

Laurel Bay Underground Storage Tank Assessment Reports for:

See attached sheet

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received the 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) Bryan Beck (via email)



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

Attachment to: Krieg to Drawdy

Subject: NFA
Dated 7/1/2015

Laurel Bay Underground Storage Tank Assessment Reports for: (153 addresses/161 tanks)

111 Birch 363 Aspen 123 Banyan 364 Aspen 131 Banyan 366 Aspen 134 Banyan 369 Aspen 145 Laurel Bay 373 Aspen 150 Laurel Bay 401 Elderberry 154 Laurel Bay 402 Elderberry 155 Laurel Bay 404 Elderberry 200 Balsam 410 Elderberry 201 Balsam 420 Elderberry 202 Balsam 424 Elderberry 203 Balsam 452 Elderberry 204 Balsam 452 Elderberry 210 Balsam 452 Elderberry 211 Balsam 460 Elderberry 220 Cypress 465 Dogwood 222 Cypress 487 Laurel Bay 223 Cypress 487 Laurel Bay 252 Beech Tank 2 513 Laurel Bay 271 Beech Tank 1 519 Laurel Bay 271 Beech Tank 2 524 Laurel Bay 284 Birch Tank 1 535 Laurel Bay 284 Birch Tank 2 553 Dahlia 308 Ash 590 Aster 311 Ash 591 Aster 312 Ash 610 Dahlia 313 Ash 628 Dahlia 337	111 Direct	262 Asman
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360 Aspen 642 Dahlia Tank 2	360 Aspen	

Laurel Bay Underground Storage Tank Assessment Reports for: (153 addresses/161 tanks) cont.

655 Camellia	920 Albacore
662 Camellia	922 Barracuda Tank 1
683 Camellia	922 Barracuda Tank 2
684 Camellia	924 Albacore
689 Abelia	925 Albacore
694 Abelia	926 Albacore
695 Abelia	930 Albacore
741 Blue Bell	931 Albacore
742 Blue Bell	933 Albacore
755 Althea	936 Albacore
757 Althea	938 Albacore
776 Laurel Bay	939 Albacore
777 Azalea	940 Albacore
779 Laurel Bay	1010 Foxglove
781 Laurel Bay	1066 Gardenia
802 Azalea	1068 Gardenia
816 Azalea	1071 Heather Tank 2
822 Azalea	1100 Iris Tank 2
823 Azalea	1128 Iris
825 Azalea	1178 Bobwhite
828 Azalea	1204 Cardinal
837 Azalea	1208 Cardinal
851 Dolphin	1209 Cardinal
856 Dolphin	1210 Cardinal
857 Dolphin	1215 Cardinal
861 Dolphin	1216 Cardinal
864 Dolphin	1217 Cardinal Tank 1
868 Dolphin	1217 Cardinal Tank 2
872 Dolphin	1233 Dove
879 Cobia	1244 Dove
886 Cobia	1250 Dove
888 Cobia	1252 Dove
889 Cobia	1254 Dove
901 Barracuda	1256 Dove
902 Barracuda	1258 Dove
903 Barracuda	1263 Dove
904 Barracuda	1269 Dove
909 Barracuda	1276 Dove
910 Barracuda	1283 Dove
914 Barracuda	1285 Dove
915 Barracuda	1288 Eagle

Laurel Bay Underground Storage Tank Assessment Reports for: (153 addresses/161 tanks) cont.

1296 Eagle	1330 Albatross
1307 Eagle	1331 Albatross
1321 Albatross	1333 Albatross
1322 Albatross	1334 Albatross
1327 Albatross	1335 Albatross
1328 Albatross	