SUMMARY REPORT 63 EAST CYPRESS STREET (FORMERLY 223 EAST CYPRESS STREET) LAUREL BAY MILITARY HOUSING AREA MARINE CORPS AIR STATION BEAUFORT BEAUFORT, SC

> Revision: 0 Prepared for:

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

and



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

JUNE 2021

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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



Table of Contents

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

Table

Table 1	Laboratory	Analytical	Results - Soil
	Laboratory	ranaryticar	Results Soll

Appendices

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



List of Acronyms

bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
СТО	Contract Task Order
COPC	constituents of potential concern
IDIQ	Indefinite Delivery, Indefinite Quantity
IGWA	Initial Groundwater Assessment
JV	Joint Venture
LBMH	Laurel Bay Military Housing
MCAS	Marine Corps Air Station
NAVFAC Mid-Lant	Naval Facilities Engineering Command Mid-Atlantic
NFA	No Further Action
PAH	polynuclear aromatic hydrocarbon
QAPP	Quality Assurance Program Plan
RBSL	risk-based screening level
SCDHEC	South Carolina Department of Health and Environmental Control
Site	LBMH area at MCAS Beaufort, South Carolina
UST	underground storage tank
VISL	vapor intrusion screening level



1.0 INTRODUCTION

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

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

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 63 East Cypress Street (Formerly 223 East Cypress Street). 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 63 East Cypress Street (Formerly 223 East Cypress Street). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 223 East Cypress Street* (MCAS Beaufort, 2013). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On June 26, 2013, a single 280 gallon heating oil UST was removed from the driveway adjacent to the concrete porch at 63 East Cypress Street (Formerly 223 East Cypress Street). 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 5'5" bgs and a single soil sample was collected from that



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

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

2.2 Soil Analytical Results

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

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 63 East Cypress Street (Formerly 223 East Cypress Street) 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 63 East Cypress Street (Formerly 223 East Cypress Street). 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, 2013. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 223 East Cypress Street, Laurel Bay Military Housing Area, October 2013.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2013. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division, *Revision 2.0*, April 2013.



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

Table



Table 1 Laboratory Analytical Results - Soil 63 East Cypress Street (Formerly 223 East Cypress Street) Laurel Bay Military Housing Area Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Sample Collected 06/26/13				
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)						
Benzene	0.003	ND				
Ethylbenzene	1.15	ND				
Naphthalene	0.036	ND				
Toluene	0.627	ND				
Xylenes, Total	13.01	ND				
Semivolatile Organic Compounds Anal	Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)					
Benzo(a)anthracene	0.66	ND				
Benzo(b)fluoranthene	0.66	ND				
Benzo(k)fluoranthene	0.66	ND				
Chrysene	0.66	ND				
Dibenz(a,h)anthracene	0.66	ND				

Notes:

⁽¹⁾ South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.0 and 3.1 (SCDHEC, May 2015 and SCDHEC, February 2016) and the Underground Storage Tank Assessment Guidelines (SCDHEC, February 2006).

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - milligram per kilogram

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Appendix A Multi-Media Selection Process for LBMH





Appendix A - Multi-Media Selection Process for LBMH

Appendix B UST Assessment Report



Attachment 1

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

Telephone (803) 896-7957 Telephone (803) 896-7957 OCT 2 3 20143 SC DMEC - Buresu of Land & Waste Management I OWNERSHIP OF UST (S) MCAS Beaufort, Commanding Officer Attn: NREAO (Craig Ehde) Owner Name (Corporation, Individual, Public Agency, Other) P.O. Box 55001 Mailing Address Beaufort, South Carolina 29904-5001 City	Date Received State	Jse Only	Submit Completed Form To: UST Program SCDHEC 2600 Bull Street Columbia, South Carolina 29201
Land & Waste Management I. OWNERSHIP OF UST (S) MCAS Beaufort, Commanding Officer Attn: NREAO (Craig Ehde) Owner Name (Corporation, Individual, Public Agency, Other) P.O. Box 55001 Mailing Address Beaufort, South Carolina 29904-5001		3 20143	Telephone (803) 896-7957
Owner Name (Corporation, Individual, Public Agency, Other) P.O. Box 55001 Mailing Address Beaufort, South Carolina 29904-5001		Management	P OF UST (S)
beautore	Owner Name (Corporation, P.O. Box 55001		NREAO (Craig Ehde)
City State Zip Code			
	City	State	Zip Code
843228-7317Craig EhdeArea CodeTelephone NumberContact Person			

II. SITE IDENTIFICATION AND LOCATION

Facility Name or Company	et, Laurel Bay Military Housing Area
Street Address or State Roa	ad (as applicable)
Beaufort,	Beaufort
	County

Attachment 2

III. INSURANCE INFORMATION

Insurance Statement

The petroleum release reported to DHEC on ______ at Permit ID Number _____ may qualify to receive state monies to pay for appropriate site rehabilitation activities. Before participation is allowed in the State Clean-up fund, written confirmation of the existence or non-existence of an environmental insurance policy is required. This section must be completed.

Is there now, or has there ever been an insurance policy or other financial mechanism that covers this UST release? YES NO (check one)

If you answered YES to the above question, please complete the following information:

My policy provider is: ______ The policy deductible is: ______ The policy limit is:

If you have this type of insurance, please include a copy of the policy with this report.

IV. REQUEST FOR SUPERB FUNDING

I DO / DO NOT wish to participate in the SUPERB Program. (Circle one.)

V. CERTIFICATION (To be signed by the UST owner)

I certify that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Name (Type or print.)

Signature

To be completed by Notary Public:

Sworn before me this _____ day of _____, 20____

(Name)

Notary Public for the state of ______. Please affix State seal if you are commissioned outside South Carolina

VI. UST INFORMATION

А.	Product(ex. Gas, Kerosene)	Heating oil
B.	Capacity(ex. 1k, 2k)	280 gal
C.	Age	Late 1950s
D.	Construction Material(ex. Steel, FRP)	Steel
E٠	Month/Year of Last Use	Mid 1980s
F.	Depth (ft.) To Base of Tank	515"
G.	Spill Prevention Equipment Y/N	No
H·	Overfill Prevention Equipment Y/N	No
r	Method of Closure Removed/Filled	Removed
J.,	Date Tanks Removed/Filled	6/26/2013
K.	Visible Corrosion or Pitting Y/N	Yes
L.	Visible Holes Y/N	Yes

223Cypress

M. Method of disposal for any USTs removed from the ground (attach disposal manifests) UST 223Cypress was removed from the ground, cleaned and recycled. See Attachment "A".

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)

Contaminated water was pumped from UST 223Cypress and disposed by MCAS.

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

VII. PIPING INFORMATION

		223Cypress	
A.	Construction Material(ex. Steel, FRP)	Steel & Copper	
в.	Distance from UST to Dispenser	N/A	-
C.	Number of Dispensers	N/A	
D.	Type of System Pressure or Suction	Suction	_
E.	Was Piping Removed from the Ground? Y/N	No	
F.	Visible Corrosion or Pitting Y/N	Yes	_
G.	Visible Holes Y/N	No	-
H.	Age	Late 1950s	_
I.		describe the location and extent for each piping run.	

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

VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

	Yes	No	Unk
A. Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells? If yes, indicate depth and location on the site map.	ſ	x	
 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. 		x	

IX. SITE CONDITIONS

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

Β.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
223 Cypress	Excav at fill end	Soil	Sandy	5'5"	6/26/13 1345 hrs	P. Shaw	
						-	
							-
						1	
	1-2-1						-
8							
9			4				
10							
11	1						
12	G						
13							
14						1	
15							
16						11 1 h	
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.

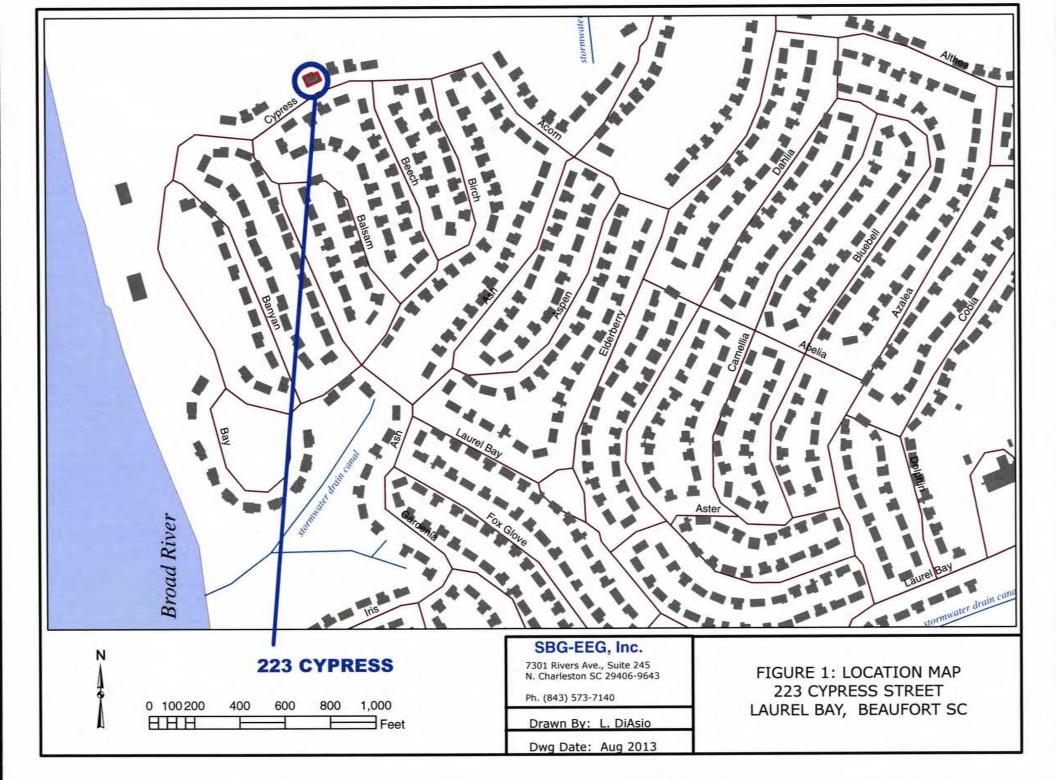
XII. RECEPTORS

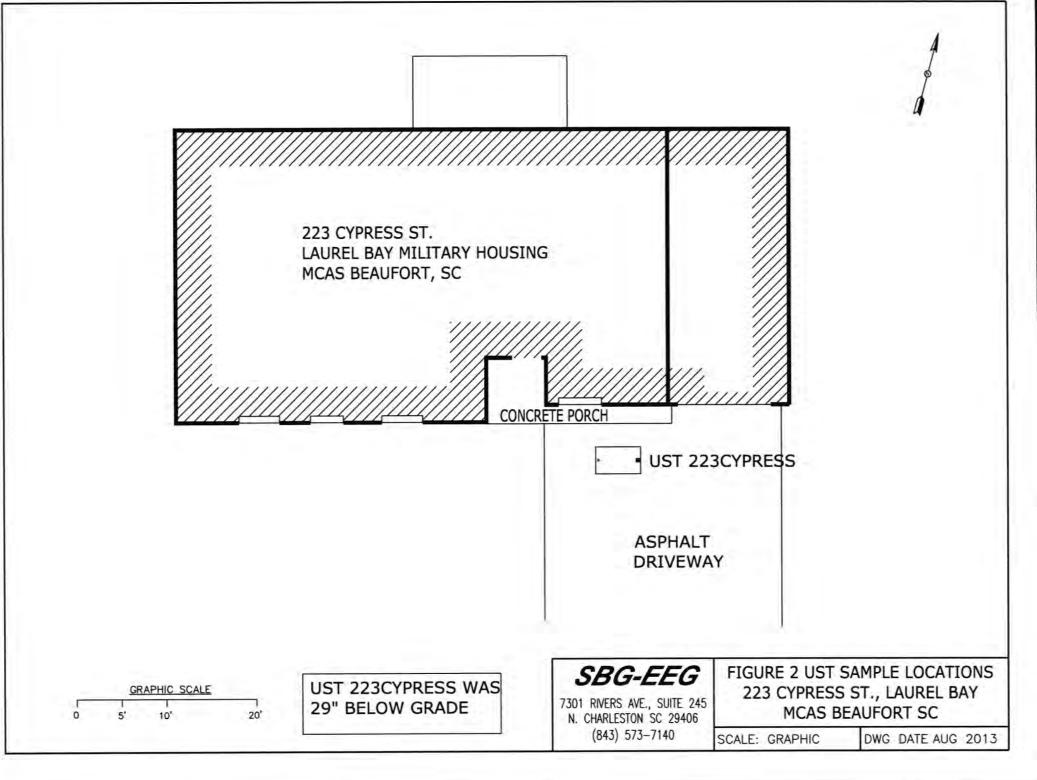
		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?	TH	х
	If yes, indicate type of receptor, distance, and direction on site map.		
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		X
	If yes, indicate type of well, distance, and direction on site map.	(0, 0, 0)	
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, electrici		
	cable, fiber optic & geo If yes, indicate the type of utility, distance, and direction on the site map.	therm	al
E.	Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete?		x
	If yes, indicate the area of contaminated soil on the site map.		

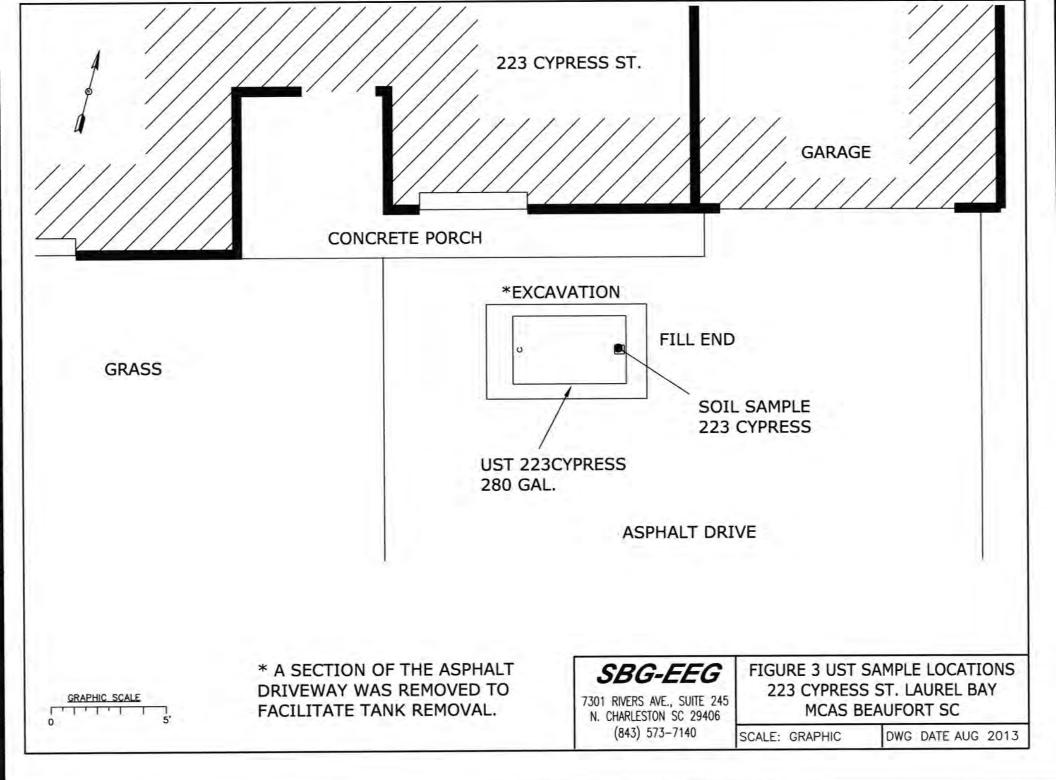
XIII. SITE MAP

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 223Cypress.



Picture 2: UST 223Cypress 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	223Cypress			
Benzene	ND			
Toluene	ND			
Ethylbenzene	ND			
Xylenes	ND			-
Naphthalene	ND			
Benzo (a) anthracene	ND			
Benzo (b) fluoranthene	ND			
Benzo (k) fluoranthene	ND			
Chrysene	ND			
Dibenz (a, h) anthracene	ND			
ТРН (ЕРА 3550)				
CoC				
Benzene				
Toluene				
Ethylbenzene				
Xylenes				
Naphthalene				
Benzo (a) anthracene				
Benzo (b) fluoranthene				
Benzo (k) fluoranthene				
Chrysene		- N 7		
Dibenz (a, h) anthracene				= 1
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	, L :			
Ethylbenzene	700				
Xylenes	10,000			j = 1.	
Total BTEX	N/A			1.11	
МТВЕ	40				
Naphthalene	25				
Benzo (a) anthracene	10				
Benzo (b) flouranthene	10			-	
Benzo (k) flouranthene	10				
Chrysene	10				
Dibenz (a, h) anthracene	10			I.I.	
EDB	.05		1		
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: 490-30128-1 Client Project/Site: Laurel Bay Housing

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

Attn: Tom McElwee

..... LINKS

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The

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Expert

Kuth Hay

Authorized for release by: 7/16/2013 11:14:56 AM

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

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

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

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

Table of Contents

Cover Page	1
Table of Contents	
Sample Summary	
Case Narrative	
Definitions	5
Client Sample Results	6
QC Sample Results	9
QC Association	14
Chronicle	
Method Summary	17
Certification Summary	
Chain of Custody	19
Receipt Checklists	21

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

TestAmerica Job ID: 490-30128-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-30128-1	1419 Albatross	Solid	06/24/13 14:15	07/02/13 08:15
490-30128-2	227 Cypress	Solid	06/25/13 15:15	07/02/13 08:15
490-30128-3	223 Cypress	Solid	06/26/13 13:45	07/02/13 08:15

Job ID: 490-30128-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-30128-1

Comments

No additional comments.

Receipt

The samples were received on 7/2/2013 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.3° C.

GC/MS VOA

No analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270D: Reanalysis of the following sample(s) was performed outside of the analytical holding time: 1419 Albatross (490-30128-1).

Method(s) 8270D: Surrogate recovery for the following sample(s) was outside control limits: 1419 Albatross (490-30128-1). Re-extraction and/or re-analysis was performed outside of holding time with acceptable results. All 8270 analytes were confirmed by re-extraction and re-analysis.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

TestAmerica Job ID: 490-30128-1

Definitions/Glossary

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing TestAmerica Job ID: 490-30128-1

13

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 \	/OA
Qualifier	Qualifier Description
x	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
۵	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)
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)
TEO	Test (the Feedback Question)

TEQ Toxicity Equivalent Quotient (Dioxin)

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

Client Sample ID: 1419 Albatross

Date Collected: 06/24/13 14:15 Date Received: 07/02/13 08:15

Lab Sample ID: 490-30128-1 Matrix: Solid

Percent Solids: 78.8

5

6

					Deserved	Analyzed	Dil Fac
It Qualifier	RL	MDL	Unit				Dirrac
D	0.00236	0.000791	mg/Kg	2	07/02/13 15:05	07/08/13 13:52	1
D	0.00236	0.000791	mg/Kg	a	07/02/13 15:05	07/08/13 13:52	1
5 J	0.00590	0.00201	mg/Kg	17	07/02/13 15:05	07/08/13 13:52	1
D	0.00236	0.000874	mg/Kg		07/02/13 15:05	07/08/13 13:52	1
D	0.00590	0.000791	mg/Kg	p	07/02/13 15:05	07/08/13 13:52	1
ry Qualifier	Limits				Prepared	Analyzed	Dil Fac
07	70 - 130				07/02/13 15:05	07/08/13 13:52	1
9	70 - 130				07/02/13 15:05	07/08/13 13:52	1
3	70 - 130				07/02/13 15:05	07/08/13 13:52	1
02	70 - 130				07/02/13 15:05	07/08/13 13:52	1
	s (GC/MS) lt Qualifier D 55 J 10 10 10 10 10 10 10 10 10 10	Qualifier RL D 0.00236 D 0.00236 D 0.00590 D 0.00236 D 0.00590 D 0.00590 P 0.00590 ry Qualifier Limits 99 70 - 130 03 70 - 130	Qualifier RL MDL D 0.00236 0.000791 D 0.00236 0.000791 S5 J 0.00590 0.00201 D 0.00590 0.000791 0.000590 D 0.00590 0.000791 ry Qualifier Limits 99 70 - 130 03 70 - 130	Qualifier RL MDL Unit D 0.00236 0.000791 mg/Kg D 0.00236 0.000791 mg/Kg D 0.00236 0.000791 mg/Kg D 0.00236 0.000791 mg/Kg D 0.00236 0.000874 mg/Kg D 0.00590 0.000791 mg/Kg D 0.00590 0.000791 mg/Kg P Qualifier Limits MGL P 70 - 130 70 - 130 MGL P 70 - 130 70 - 130 MGL	Qualifier RL MDL Unit D D 0.00236 0.000791 mg/Kg III D 0.00236 0.000791 mg/Kg III S5 J 0.00590 0.00201 mg/Kg IIII D 0.00236 0.000874 mg/Kg IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Qualifier RL MDL Unit D Prepared D 0.00236 0.000791 mg/Kg 12 07/02/13 15:05 D 0.00236 0.000791 mg/Kg 12 07/02/13 15:05 S5 J 0.00590 0.00201 mg/Kg 12 07/02/13 15:05 D 0.00236 0.000874 mg/Kg 12 07/02/13 15:05 D 0.00590 0.000791 mg/Kg 12 07/02/13 15:05 ID 0.00590 0.000791 mg/Kg 12 07/02/13 15:05 ry Qualifier Limits Prepared 70 70 130 07/02/13 15:05 07/02/13 15:05 99 70 130 07/02/13 15:05 07/02/13 15:05 03 70 130 07/02/13 15:05 07/02/13 15:05	Alt Qualifier RL MDL Unit D Prepared Analyzed D 0.00236 0.000791 mg/Kg D 07/02/13 15:05 07/08/13 13:52 D 0.00236 0.000791 mg/Kg D 07/02/13 15:05 07/08/13 13:52 S5 J 0.00590 0.00201 mg/Kg D 07/02/13 15:05 07/08/13 13:52 DD 0.00236 0.000874 mg/Kg D 07/02/13 15:05 07/08/13 13:52 DD 0.00590 0.000791 mg/Kg D 07/02/13 15:05 07/08/13 13:52 ID 0.00590 0.000791 mg/Kg D 07/02/13 15:05 07/08/13 13:52 ry Qualifier Limits Frepared Analyzed 07/02/13 15:05 07/08/13 13:52 g9 70 - 130 70 - 130 07/02/13 15:05 07/08/13 13:52 07/08/13 13:52 03 70 - 130 07/02/13 15:05 07/08/13 13:52 07/08/13 13:52 07/08/13 13:52 03 70 - 130 <t< td=""></t<>

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

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
,2-Dichloroethane-d4 (Surr)	97		70 - 130				07/02/13 15:05	07/08/13 13:52	1
Bromofluorobenzene (Surr)	99		70 - 130				07/02/13 15:05	07/08/13 13:52	1
bibromofluoromethane (Surr)	103		70 - 130				07/02/13 15:05	07/08/13 13:52	1
oluene-d8 (Surr)	92		70 - 130				07/02/13 15:05	07/08/13 13:52	1
Method: 8270D - Semivolatile C								A	Dil Fac
nalyte		Qualifier	RL		Unit	D	Prepared	Analyzed 07/06/13 04:19	DIFAC
cenaphthene	ND		0.0669	0.00998	mg/Kg	22	07/05/13 12:38 07/05/13 12:38	07/06/13 04:19	
cenaphthylene	ND		0.0669	0.00898	mg/Kg	12			
nthracene	ND		0.0669	0.00898	mg/Kg	2	07/05/13 12:38	07/06/13 04:19	
enzo[a]anthracene	ND		0.0669	0.0150	mg/Kg		07/05/13 12:38	07/06/13 04:19	1
enzo[a]pyrene	ND		0.0669	0.0120	mg/Kg	n m	07/05/13 12:38	07/06/13 04:19	1
enzo[b]fluoranthene	ND		0.0669	0.0120	mg/Kg	ä	07/05/13 12:38	07/06/13 04:19	1
enzo[g,h,i]perylene	ND		0.0669	0.00898	mg/Kg	n	07/05/13 12:38	07/06/13 04:19	1
enzo[k]fluoranthene	ND		0.0669	0.0140	mg/Kg	n	07/05/13 12:38	07/06/13 04:19	1
-Methylnaphthalene	ND		0.0669	0.0140	mg/Kg	¤	07/05/13 12:38	07/06/13 04:19	1
yrene	ND		0.0669	0.0120	mg/Kg	¤	07/05/13 12:38	07/06/13 04:19	1
henanthrene	ND		0.0669	0.00898	mg/Kg	a	07/05/13 12:38	07/06/13 04:19	1
hrysene	ND		0.0669	0.00898	mg/Kg	n	07/05/13 12:38	07/06/13 04:19	1
ibenz(a,h)anthracene	ND		0.0669	0.00699	mg/Kg	\$	07/05/13 12:38	07/06/13 04:19	1
luoranthene	ND		0.0669	0.00898	mg/Kg	\$	07/05/13 12:38	07/06/13 04:19	1
luorene	ND		0.0669	0.0120	mg/Kg	n	07/05/13 12:38	07/06/13 04:19	1
ndeno[1,2,3-cd]pyrene	ND		0.0669	0.00998	mg/Kg	121	07/05/13 12:38	07/06/13 04:19	1
laphthalene	ND		0.0669	0.00898	mg/Kg	12	07/05/13 12:38	07/06/13 04:19	1
-Methylnaphthalene	ND		0.0669	0.0160	mg/Kg	¤	07/05/13 12:38	07/06/13 04:19	1
urrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
-Fluorobiphenyl (Surr)	8	x	29 - 120				07/05/13 12:38	07/06/13 04:19	1
erphenyl-d14 (Surr)	18		13 - 120				07/05/13 12:38	07/06/13 04:19	1
litrobenzene-d5 (Surr)	16	x	27 - 120				07/05/13 12:38	07/06/13 04:19	1
General Chemistry						11			
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79		0.10	0.10	%			07/02/13 14:28	1

Client Sample ID: 227 Cypress

Date Collected: 06/25/13 15:15 Date Received: 07/02/13 08:15

Lab Sample ID: 490-30128-2

Matrix: Solid Percent Solids: 77.0

6

Method: 8260B - Volatile Organic Compounds (GC/MS) Dil Fac **Result Qualifier** RL MDL Unit D Prepared Analyzed Analyte 12 07/02/13 15:05 Benzene ND 0.00261 0.000875 mg/Kg 07/08/13 14:21 1 12 Ethylbenzene ND 0.00261 0.000875 mg/Kg 07/02/13 15:05 07/08/13 14:21 1 Naphthalene ND 0.00653 0.00222 mg/Kg 12 07/02/13 15:05 07/08/13 14:21 1 ND 0.00261 0.000966 mg/Kg 32 07/02/13 15:05 07/08/13 14:21 1 Toluene 22 07/02/13 15:05 07/08/13 14:21 Xylenes, Total ND 0.00653 0.000875 mg/Kg 1 Prepared Dil Fac Limits Analyzed %Recovery Qualifier Surrogate 70 - 130 07/08/13 14:21 07/02/13 15:05 1 1,2-Dichloroethane-d4 (Surr) 96 4-Bromofluorobenzene (Surr) 95 70 - 130 07/02/13 15:05 07/08/13 14:21 1 70 - 130 07/02/13 15:05 07/08/13 14:21 Dibromofluoromethane (Surr) 103 1 07/08/13 14:21 1 90 70 - 130 07/02/13 15:05 Toluene-d8 (Surr)

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0458	J	0.0665	0.00993	mg/Kg	11	07/09/13 11:44	07/10/13 03:08	1
Acenaphthylene	ND		0.0665	0.00893	mg/Kg	^{tt}	07/09/13 11:44	07/10/13 03:08	1
Anthracene	0.395		0.0665	0.00893	mg/Kg	n	07/09/13 11:44	07/10/13 03:08	1
Benzo[a]anthracene	3.83		0.333	0.0744	mg/Kg	n	07/09/13 11:44	07/10/13 23:56	5
Benzo[a]pyrene	1.70		0.0665	0.0119	mg/Kg	13	07/09/13 11:44	07/10/13 03:08	1
Benzo[b]fluoranthene	3.13		0.0665	0.0119	mg/Kg	n	07/09/13 11:44	07/10/13 03:08	1
Benzo[g,h,i]perylene	0.592		0.0665	0.00893	mg/Kg	¤	07/09/13 11:44	07/10/13 03:08	1
Benzo[k]fluoranthene	1.42		0.0665	0.0139	mg/Kg	n	07/09/13 11:44	07/10/13 03:08	1
1-Methylnaphthalene	ND		0.0665	0.0139	mg/Kg	n	07/09/13 11:44	07/10/13 03:08	1
Pyrene	7.78		0.333	0.0596	mg/Kg	12	07/09/13 11:44	07/10/13 23:56	5
Phenanthrene	2.80		0.0665	0.00893	mg/Kg	Ø	07/09/13 11:44	07/10/13 03:08	1
Chrysene	4.27		0.333	0.0447	mg/Kg	-	07/09/13 11:44	07/10/13 23:56	5
Dibenz(a,h)anthracene	0.227		0.0665	0.00695	mg/Kg	12	07/09/13 11:44	07/10/13 03:08	1
Fluoranthene	9.39		0.333	0.0447	mg/Kg	12	07/09/13 11:44	07/10/13 23:56	5
Fluorene	0.0877		0.0665	0.0119	mg/Kg	a	07/09/13 11:44	07/10/13 03:08	1
Indeno[1,2,3-cd]pyrene	0.613		0.0665	0.00993	mg/Kg	a	07/09/13 11:44	07/10/13 03:08	1
Naphthalene	ND		0.0665	0.00893	mg/Kg	-	07/09/13 11:44	07/10/13 03:08	1
2-Methylnaphthalene	ND		0.0665	0.0159	mg/Kg		07/09/13 11:44	07/10/13 03:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	41		29 - 120				07/09/13 11:44	07/10/13 03:08	1
Terphenyl-d14 (Surr)	64		13 - 120				07/09/13 11:44	07/10/13 03:08	1
Nitrobenzene-d5 (Surr)	50		27 - 120				07/09/13 11:44	07/10/13 03:08	1
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77		0.10	0.10	%			07/02/13 14:28	1

Client Sample ID: 223 Cypress

Date Collected: 06/26/13 13:45 Date Received: 07/02/13 08:15

Lab Sample ID: 490-30128-3 Matrix: Solid

Percent Solids: 88.1

6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00223	0.000748	mg/Kg	12	07/02/13 15:05	07/08/13 14:50	1
Ethylbenzene	ND		0.00223	0.000748	mg/Kg	12	07/02/13 15:05	07/08/13 14:50	1
Naphthalene	ND		0.00558	0.00190	mg/Kg	α	07/02/13 15:05	07/08/13 14:50	1
Toluene	ND		0.00223	0.000826	mg/Kg	a	07/02/13 15:05	07/08/13 14:50	1
Xylenes, Total	ND		0.00558	0.000748	mg/Kg	a	07/02/13 15:05	07/08/13 14:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 130				07/02/13 15:05	07/08/13 14:50	1
4-Bromofluorobenzene (Surr)	93		70 - 130				07/02/13 15:05	07/08/13 14:50	1
Dibromofluoromethane (Surr)	104		70 - 130				07/02/13 15:05	07/08/13 14:50	1
Toluene-d8 (Surr)	88		70 - 130				07/02/13 15:05	07/08/13 14:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0650	0.00971	mg/Kg	32	07/09/13 11:44	07/10/13 03:32	1
Acenaphthylene	ND		0.0650	0.00874	mg/Kg	n	07/09/13 11:44	07/10/13 03:32	1
Anthracene	ND		0.0650	0.00874	mg/Kg	n	07/09/13 11:44	07/10/13 03:32	1
Benzo[a]anthracene	ND		0.0650	0.0146	mg/Kg	a	07/09/13 11:44	07/10/13 03:32	1
Benzo[a]pyrene	ND		0.0650	0.0117	mg/Kg	n	07/09/13 11:44	07/10/13 03:32	1
Benzo[b]fluoranthene	ND		0.0650	0.0117	mg/Kg	12	07/09/13 11:44	07/10/13 03:32	1
Benzo[g,h,i]perylene	ND		0.0650	0.00874	mg/Kg	n	07/09/13 11:44	07/10/13 03:32	1
Benzo[k]fluoranthene	ND		0.0650	0.0136	mg/Kg	n	07/09/13 11:44	07/10/13 03:32	1
1-Methylnaphthalene	ND		0.0650	0.0136	mg/Kg	12	07/09/13 11:44	07/10/13 03:32	1
Pyrene	ND		0.0650	0.0117	mg/Kg	n	07/09/13 11:44	07/10/13 03:32	1
Phenanthrene	ND		0.0650	0.00874	mg/Kg	22	07/09/13 11:44	07/10/13 03:32	1
Chrysene	ND		0.0650	0.00874	mg/Kg	10	07/09/13 11:44	07/10/13 03:32	1
Dibenz(a,h)anthracene	ND		0.0650	0.00680	mg/Kg	8	07/09/13 11:44	07/10/13 03:32	1
Fluoranthene	ND		0.0650	0.00874	mg/Kg	-	07/09/13 11:44	07/10/13 03:32	1
Fluorene	ND		0.0650	0.0117	mg/Kg	-	07/09/13 11:44	07/10/13 03:32	1
Indeno[1,2,3-cd]pyrene	ND		0.0650	0.00971	mg/Kg	23	07/09/13 11:44	07/10/13 03:32	1
Naphthalene	ND		0.0650	0.00874	mg/Kg	n	07/09/13 11:44	07/10/13 03:32	1
2-Methylnaphthalene	ND		0.0650	0.0155	mg/Kg	¤	07/09/13 11:44	07/10/13 03:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	48		29 - 120				07/09/13 11:44	07/10/13 03:32	1
Terphenyl-d14 (Surr)	91		13 - 120				07/09/13 11:44	07/10/13 03:32	1
Nitrobenzene-d5 (Surr)	51		27 - 120				07/09/13 11:44	07/10/13 03:32	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL		D	Prepared	Analyzed	Dil Fac
Percent Solids	88		0.10	0.10	%			07/02/13 14:46	1

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

Lab Sample ID: 490-30256-A-4-D MS Matrix: Solid Analysis Batch: 91451

Analysis Batch: 91451	Sample	Sample	Spike	MS	MS				Prep %Rec.	Batch: 91068
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		0.0428	0.03795		mg/Kg	32	89	31 - 143	
Ethylbenzene	ND		0.0428	0.03319		mg/Kg	¤	78	23 - 161	
Naphthalene	ND		0.0428	0.02316		mg/Kg	×	54	10 - 176	
Toluene	ND		0.0428	0.03172		mg/Kg	¤	74	30 - 155	
Xylenes, Total	ND		0.128	0.09998		mg/Kg	ø	78	25 - 162	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	99		70 - 130							
4-Bromofluorobenzene (Surr)	70		70 - 130							

70 - 130

70 - 130

Lab Sample ID: 490-30256-A-4-E MSD	
Matrix: Solid	
Analysis Batch: 01451	

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Analysis Batch: 91451									Prep	Batch:	91068
Street and the street of the	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		0.0435	0.04824		mg/Kg	-22	111	31 - 143	24	50
Ethylbenzene	ND		0.0435	0.04097		mg/Kg	X	94	23 - 161	21	50
Naphthalene	ND		0.0435	0.02861		mg/Kg	a	66	10 - 176	21	50
Toluene	ND		0.0435	0.04166		mg/Kg	n	96	30 - 155	27	50
Xylenes, Total	ND		0.131	0.1221		mg/Kg	a	93	25 - 162	20	50
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								

ourroguto	, or to o o to i j	quanner	
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
Toluene-d8 (Surr)	92		70 - 130

MR MR

104

88

Lab Sample ID: MB 490-91451/6 Matrix: Solid

Analysis Batch: 91451

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

Client Sample ID: Matrix Spike Duplicate

TestAmerica Job ID: 490-30128-1

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Type: Total/NA

	INID	MD							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			07/08/13 11:48	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			07/08/13 11:48	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			07/08/13 11:48	1
Toluene	ND		0.00200	0.000740	mg/Kg			07/08/13 11:48	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			07/08/13 11:48	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130					07/08/13 11:48	1
4-Bromofluorobenzene (Surr)	92		70 - 130					07/08/13 11:48	1
Dibromofluoromethane (Surr)	101		70 - 130					07/08/13 11:48	1
Toluene-d8 (Surr)	95		70 - 130					07/08/13 11:48	1

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

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

Lab Sample ID: LCS 490-91451/3 Matrix: Solid An

Analysis Batch: 91451								trop type: tetaito
		Spike	LCS	LCS				%Rec.
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene		0.0500	0.05196		mg/Kg		104	75 - 127
Ethylbenzene		0.0500	0.04376		mg/Kg		88	80 - 134
Naphthalene		0.0500	0.04612		mg/Kg		92	69 - 150
Toluene		0.0500	0.04461		mg/Kg		89	80 - 132
Xylenes, Total		0.150	0.1312		mg/Kg		87	80 - 137
LCS	LCS							
Surrogate %Recovery	Qualifier	Limits						

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	91		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
Toluene-d8 (Surr)	90		70 - 130

Lab Sample ID: LCSD 490-91451/4 Matrix: Solid Analysis Batch: 91451

Contract of the second s		Spike	LCSD	LCSD				%Rec.		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene		0.0500	0.05256		mg/Kg		105	75 - 127	1	50
Ethylbenzene		0.0500	0.04351		mg/Kg		87	80 - 134	1	50
Naphthalene		0.0500	0.04652		mg/Kg		93	69 - 150	1	50
Toluene		0.0500	0.04378		mg/Kg		88	80 - 132	2	50
Xylenes, Total		0.150	0.1314		mg/Kg		88	80 - 137	0	50
	LCSD LCSD									

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	91		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
Toluene-d8 (Surr)	89		70 - 130

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

Lab Sample ID: MB 490-91758/1-A							Client Sa	mple ID: Metho	d Blank
Matrix: Solid								Prep Type: T	otal/NA
Analysis Batch: 91783								Prep Batch	1: 91758
	MB	мв							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		07/09/13 11:44	07/10/13 01:10	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		07/09/13 11:44	07/10/13 01:10	1
Anthracene	ND		0.0670	0.00900	mg/Kg		07/09/13 11:44	07/10/13 01:10	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		07/09/13 11:44	07/10/13 01:10	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		07/09/13 11:44	07/10/13 01:10	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		07/09/13 11:44	07/10/13 01:10	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		07/09/13 11:44	07/10/13 01:10	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		07/09/13 11:44	07/10/13 01:10	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		07/09/13 11:44	07/10/13 01:10	1
Pyrene	ND		0.0670	0.0120	mg/Kg		07/09/13 11:44	07/10/13 01:10	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		07/09/13 11:44	07/10/13 01:10	1

TestAmerica Nashville

7/16/2013

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

Lab Sample ID: MB 490-91758/1-A Matrix: Solid Analysis Batch: 91783

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 91758

Analysis Baton. office	MB	MB						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Chrysene	ND		0.0670	0.00900	mg/Kg		07/09/13 11:44	07/10/13 01:10
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		07/09/13 11:44	07/10/13 01:10
Fluoranthene	ND		0.0670	0.00900	mg/Kg		07/09/13 11:44	07/10/13 01:10
Fluorene	ND		0.0670	0.0120	mg/Kg		07/09/13 11:44	07/10/13 01:10
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		07/09/13 11:44	07/10/13 01:10
Naphthalene	ND		0.0670	0.00900	mg/Kg		07/09/13 11:44	07/10/13 01:10
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		07/09/13 11:44	07/10/13 01:10
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed
2-Fluorobiphenyl (Surr)	62		29 - 120				07/09/13 11:44	07/10/13 01:10
Terphenyl-d14 (Surr)	96		13 - 120				07/09/13 11:44	07/10/13 01:10
Nitrobenzene-d5 (Surr)	61		27 - 120				07/09/13 11:44	07/10/13 01:10

Lab Sample ID: LCS 490-91758/2-A Matrix: Solid

Analysis Batch: 91783

	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	1.312		mg/Kg		79	46 - 124	
Benzo[a]anthracene	1.67	1.317		mg/Kg		79	45 - 120	
Benzo[a]pyrene	1.67	1.318		mg/Kg		79	45 - 120	
Benzo(b)fluoranthene	1.67	1.352		mg/Kg		81	42 - 120	
Benzo[g,h,i]perylene	1.67	1.287		mg/Kg		77	38 - 120	
Benzo[k]fluoranthene	1.67	1.355		mg/Kg		81	42 - 120	
1-Methylnaphthalene	1.67	1.197		mg/Kg		72	32 - 120	
Pyrene	1.67	1.543		mg/Kg		93	43 - 120	
Phenanthrene	1.67	1.296		mg/Kg		78	45 - 120	
Chrysene	1.67	1.346		mg/Kg		81	43 - 120	
Dibenz(a,h)anthracene	1.67	1.298		mg/Kg		78	32 - 128	
Fluoranthene	1.67	1.220		mg/Kg		73	46 - 120	
Fluorene	1.67	1.279		mg/Kg		77	42 - 120	
Indeno[1,2,3-cd]pyrene	1.67	1.251		mg/Kg		75	41 - 121	
Naphthalene	1.67	1.076		mg/Kg		65	32 - 120	
2-Methylnaphthalene	1.67	1.173		mg/Kg		70	28 - 120	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	57		29 - 120
Terphenyl-d14 (Surr)	78		13 - 120
Nitrobenzene-d5 (Surr)	59		27 - 120

Lab Sample ID: 490-30128-E-1-C MS Matrix: Solid

Analysis Batch: 91783 %Rec. Spike MS MS Sample Sample **Result** Qualifier Unit D %Rec Limits **Result** Qualifier Added Analyte 12 62 25 - 120 2.09 1.293 mg/Kg ND Acenaphthylene n 28 - 125 70 mg/Kg 2.09 1.471 Anthracene ND

TestAmerica Nashville

07/10/13 01:10
Analyzed
07/10/13 01:10
07/10/13 01:10
07/10/13 01:10

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 91758

Dil Fac

1

1

1

1

1

1

1

Dil Fac 1 1 1

Prep Type: Total/NA Prep Batch: 91758

Client Sample ID: Matrix Spike

7/16/2013

Client Sample ID: Matrix Spike

Prep Type: Total/NA

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

54

Lab Sample ID: 490-30128-E-1-C MS Matrix: Solid

Analysis Batch: 91783	Sample	Sample	Spike	MS	MS				Prep Batch: 91758 %Rec.
Analyte		Qualifier	Added	Result		Unit	D	%Rec	Limits
Benzo[a]anthracene	ND		2.09	1.510		mg/Kg	¤	72	23 - 120
Benzo[a]pyrene	ND		2.09	1.534		mg/Kg	12	73	15 - 128
Benzo[b]fluoranthene	ND		2.09	1.616		mg/Kg	¤	77	12 - 133
Benzo[g,h,i]perylene	ND		2.09	1.496		mg/Kg	¤	72	22 - 120
Benzo[k]fluoranthene	ND		2.09	1.533		mg/Kg	a	73	28 - 120
1-Methylnaphthalene	ND		2.09	1.177		mg/Kg	12	56	10 - 120
Pyrene	ND		2.09	1.746		mg/Kg	¤	84	20 - 123
Phenanthrene	ND		2.09	1.453		mg/Kg	¤	69	21 - 122
Chrysene	ND		2.09	1.554		mg/Kg	¤	74	20 - 120
Dibenz(a,h)anthracene	ND		2.09	1.551		mg/Kg	α	74	12 - 128
Fluoranthene	ND		2.09	1.332		mg/Kg	12	64	10 - 143
Fluorene	ND		2.09	1.381		mg/Kg	x	66	20 - 120
Indeno[1,2,3-cd]pyrene	ND		2.09	1.462		mg/Kg		70	22 - 121
Naphthalene	ND		2.09	0.9792		mg/Kg	12	47	10 - 120
2-Methylnaphthalene	ND		2.09	1.149		mg/Kg	¤	55	13 - 120
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
2-Fluorobiphenyl (Surr)	42		29 - 120						
Terphenyl-d14 (Surr)	59		13 - 120						

27 - 120

Lab Sample ID: 490-30128-E-1-D MSD Matrix: Solid Analysis Batch: 91783

Nitrobenzene-d5 (Surr)

Sample Sample Spike MSD MSD %Rec. RPD **Result Qualifier** Added **Result Qualifier** Unit D %Rec Limits RPD Limit Analyte 22 ND 2.09 1.337 mg/Kg 64 25 - 120 3 50 Acenaphthylene -ND 2.09 1.550 74 28 - 125 49 Anthracene mg/Kg 5 Benzo[a]anthracene ND 2.09 1.597 mg/Kg T. 76 23 - 120 6 50 ND 2.09 1.593 mg/Kg 12 76 15 - 128 4 50 Benzo[a]pyrene ND 2.09 32 79 12 - 133 50 1.661 mg/Kg 3 Benzo[b]fluoranthene -22 - 120 50 Benzo[g,h,i]perylene ND 2.09 1.596 mg/Kg 76 6 ND 2.09 1.619 12 77 28 - 120 5 45 Benzo[k]fluoranthene mg/Kg ND 2.09 1.204 # 58 10 - 120 2 50 1-Methylnaphthalene mg/Kg 1.821 n 20 - 123 Pyrene ND 2.09 mg/Kg 87 4 50 11 Phenanthrene ND 2.09 1.551 mg/Kg 74 21 - 122 7 50 2.09 1.681 22 80 20 - 120 8 49 Chrysene ND mg/Kg Dibenz(a,h)anthracene ND 2.09 1.634 mg/Kg -78 12 - 128 5 50 ND 2.09 1.407 n 67 10 - 143 5 50 Fluoranthene mg/Kg Fluorene ND 2.09 1.448 mg/Kg -69 20 - 120 5 50 Indeno[1,2,3-cd]pyrene ND 2.09 1.560 mg/Kg n 75 22 - 121 6 50 ND 2.09 0.9969 mg/Kg 32 48 10 - 120 2 50 Naphthalene 2.09 -56 13 - 120 3 50 2-Methylnaphthalene ND 1.179 mg/Kg MSD MSD Qualifier Limits Surrogate %Recovery 29 - 120 2-Fluorobiphenyl (Surr) 44 Terphenyl-d14 (Surr) 70 13 - 120

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

Prep Batch: 91758

9

13

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

Lab Sample ID: 490-30128-I Matrix: Solid Analysis Batch: 91783	E-1-D MSD			Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA Prep Batch: 91758
		MSD		
Surrogate	%Recovery	Qualifier	Limits	
Nitrobenzene-d5 (Surr)	53		27 - 120	
Method: Moisture - Perc	cent Moisture			
Lab Sample ID: 490-27922-	A-75 DU			Client Sample ID: Duplicate
an el contra				Pren Type: Total/NA

Matrix: Solid							Prep Type. To	Lai/INA
Analysis Batch: 90570	Sample	Sample	DU	DU				RPD
Analyte		Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Percent Solids	72		73		%		2	20

QC Association Summary

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing TestAmerica Job ID: 490-30128-1

GC/MS VOA

Prep Batch: 90582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-30128-1	1419 Albatross	Total/NA	Solid	5035	
490-30128-2	227 Cypress	Total/NA	Solid	5035	
490-30128-3	223 Cypress	Total/NA	Solid	5035	
Prep Batch: 91068					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-30256-A-4-D MS	Matrix Spike	Total/NA	Solid	5030B	
490-30256-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5030B	
Analysis Batch: 91451					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-30128-1	1419 Albatross	Total/NA	Solid	8260B	90582
490-30128-2	227 Cypress	Total/NA	Solid	8260B	90582
490-30128-3	223 Cypress	Total/NA	Solid	8260B	90582
490-30256-A-4-D MS	Matrix Spike	Total/NA	Solid	8260B	91068
490-30256-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	91068
TOO DOLOO IT I LINOD		Total/NA	Solid	8260B	
LCS 490-91451/3	Lab Control Sample	1 Otdi / 1 V			
	Lab Control Sample Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 91122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-30128-1	1419 Albatross	Total/NA	Solid	3550C	
Analysis Batch: 91244					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-30128-1	1419 Albatross	Total/NA	Solid	8270D	91122
Prep Batch: 91758					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-30128-2	227 Cypress	Total/NA	Solid	3550C	
490-30128-3	223 Cypress	Total/NA	Solid	3550C	
490-30128-E-1-C MS	Matrix Spike	Total/NA	Solid	3550C	
490-30128-E-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
LCS 490-91758/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-91758/1-A	Method Blank	Total/NA	Solid	3550C	
Analysis Batch: 91783					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-30128-2	227 Cypress	Total/NA	Solid	8270D	91758
490-30128-3	223 Cypress	Total/NA	Solid	8270D	91758
490-30128-E-1-C MS	Matrix Spike	Total/NA	Solid	8270D	91758
490-30128-E-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	91758
LCS 490-91758/2-A	Lab Control Sample	Total/NA	Solid	8270D	91758
MB 490-91758/1-A	Method Blank	Total/NA	Solid	8270D	91758

QC Association Summary

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

TestAmerica Job ID: 490-30128-1

GC/MS Semi VOA (Continued)

Analysis Batch: 92095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-30128-2	227 Cypress	Total/NA	Solid	8270D	91758

General Chemistry

Analysis Batch: 90570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-27922-A-75 DU	Duplicate	Total/NA	Solid	Moisture	
490-30128-1	1419 Albatross	Total/NA	Solid	Moisture	
490-30128-2	227 Cypress	Total/NA	Solid	Moisture	
490-30128-3	223 Cypress	Total/NA	Solid	Moisture	

Client Sample ID: 1419 Albatross

Date Collected: 06/24/13 14:15

Lab Sample ID: 490-30128-1

Matrix: Solid Percent Solids: 78.8

Date Received: 07/02/13 08:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			90582	07/02/13 15:05	MLN	TAL NSH
Total/NA	Analysis	8260B		1	91451	07/08/13 13:52	ККК	TAL NSH
Total/NA	Prep	3550C			91122	07/05/13 12:38	JLP	TAL NSH
Total/NA	Analysis	8270D		1	91244	07/06/13 04:19	JLS	TAL NSH
Total/NA	Analysis	Moisture		1	90570	07/02/13 14:28	RRS	TAL NSH

Client Sample ID: 227 Cypress

Date Collected: 06/25/13 15:15 Date Received: 07/02/13 08:15

	Batch	Batch		Dilution	Batch	Prepared	200100-00	25.6
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			90582	07/02/13 15:05	MLN	TAL NSH
Total/NA	Analysis	8260B		1	91451	07/08/13 14:21	KKK	TAL NSH
Total/NA	Prep	3550C			91758	07/09/13 11:44	AJK	TAL NSH
Total/NA	Analysis	8270D		1	91783	07/10/13 03:08	KJP	TAL NSH
Total/NA	Prep	3550C			91758	07/09/13 11:44	AJK	TAL NSH
Total/NA	Analysis	8270D		5	92095	07/10/13 23:56	KJP	TAL NSH
Total/NA	Analysis	Moisture		1	90570	07/02/13 14:28	RRS	TAL NSH

Client Sample ID: 223 Cypress Date Collected: 06/26/13 13:45

Date Received: 07/02/13 08:15

Lab Sample ID: 490-30128-3 Matrix: Solid

Percent Solids: 88.1

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			90582	07/02/13 15:05	MLN	TAL NSH
Total/NA	Analysis	8260B		1	91451	07/08/13 14:50	KKK	TAL NSH
Total/NA	Prep	3550C			91758	07/09/13 11:44	AJK	TAL NSH
Total/NA	Analysis	8270D		1	91783	07/10/13 03:32	KJP	TAL NSH
Total/NA	Analysis	Moisture		1	90570	07/02/13 14:46	RRS	TAL NSH

Laboratory References:

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

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

TestAmerica Job ID: 490-30128-1

Laboratory: TestAmerica Nashville

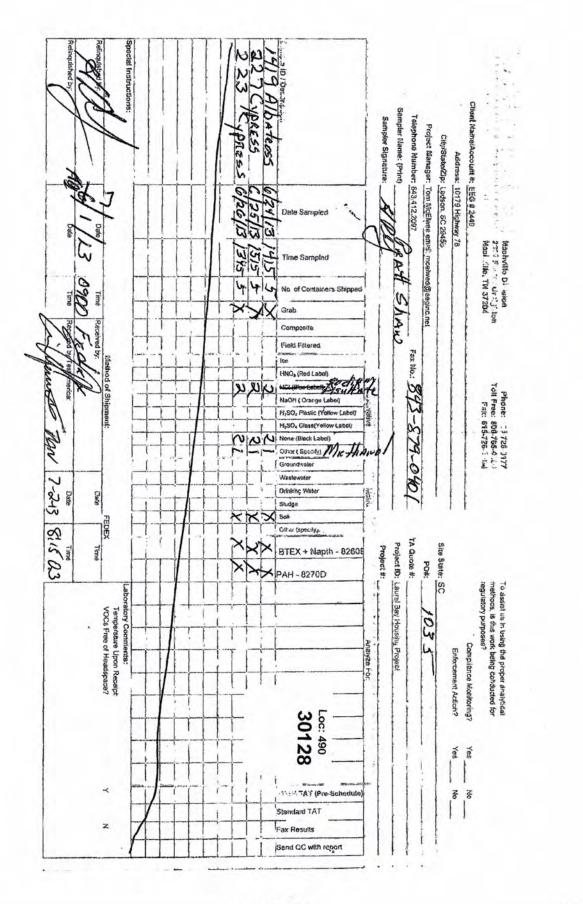
All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-13
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-14
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-14
Illinois	NELAP	5	200010	12-09-13
lowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-13 *
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAP	1	2963	10-10-13
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-13 *
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-13
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-14
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAP	8	TAN	07-30-13 *
Virginia	NELAP	3	460152	06-14-14
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

* Expired certification is currently pending renewal and is considered valid.

THE LEADER IN ENVIRONMENTAL TESTING Nashville, TN COOLER RECEIPT FOR Cooler Received/Opened On : 07/02/13 @ 0815	490-30128 Chain of Custody
Tracking #6091(last 4 digits, FedEx)	
Courier: Fed-ex IR Gun : 17960357	
1. Temperature of rep. sample or temp blank when opened:	
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank fro	zen? YES NO.
4. Were custody seals on outside of cooler? If yes, how many and where:	YES. NONA
5. Were the seals intact, signed, and dated correctly?	YES NONA
6. Were custody papers inside cooler?	(YES)NONA
certify that I opened the cooler and answered questions 1-6 (intial)	V
7. Were custody seals on containers: YES AO and Intact	YES NO (NA)
Were these signed and dated correctly?	YES NO (NA)
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert	Paper Other None
9. Cooling process:	ry ice Other None
10. Did all containers arrive in good condition (unbroken)?	YES NO NA
11. Were all container labels complete (#, date, signed, pres., etc)?	YES NO NA
12. Did all container labels and tags agree with custody papers?	ESNONA
13a. Were VOA vials received?	ESNONA
b. Was there any observable headspace present in any VOA vial?	YES
14. Was there a Trip Blank in this cooler? YESNA If multiple coolers, see	quence #A
certify that I unloaded the cooler and answered questions 7-14 (intial)	CIA
15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH le	vel? YESNO
b. Did the bottle labels indicate that the correct preservatives were used	YES NO NA
6. Was residual chlorine present?	YESNONA
certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (in	tial) ETA
7. Were custody papers properly filled out (ink, signed, etc)?	ESNONA
8. Did you sign the custody papers in the appropriate place?	ESNONA
9. Were correct containers used for the analysis requested?	ESNONA
20. Was sufficient amount of sample sent in each container?	ESNONA
	EA
	En

BIS = Broken in shipment Cooler Receipt Form.doc



Page 20 of 21

12 13

Login Sample Receipt Checklist

Client: Small Business Group Inc.

Login Number: 30128 List Number: 1

Creator: Abernathy, Eric

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

Job Number: 490-30128-1

List Source: TestAmerica Nashville

ATTACHMENT A

UST Certificate of Disposal

CONTRACTOR

Small Business Group, Inc. 7301 Rivers Avenue, Suite 245 N. Charleston SC 29406-4643

TEL (843) 879-0403 FAX (843) 879-0401

TANK ID & LOCATION

UST 223Cypress, 223 Cypress Street, Laurel Bay Housing Area, MCAS Beaufort, S.C.

DISPOSAL LOCATION

Coastal Auto Salvage Co., Inc. 130 Laurel Bay Road Beaufort, S.C. 29906

TYPE OF TANK SIZE (GAL)

Steel

280

CLEANING/DISPOSAL METHOD

The tank and piping were unearthed, cut open, cleaned with a pressure washer, cut into sections, and recycled.

DISPOSAL CERTIFICATION

I certify that the above tank, piping and equipment has been properly cleaned and disposed of.

<u>T.C. L. Oree 1 8/8</u> (Name)

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 <u>et seq</u>., 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	381 Aspen
153 Laurel Bay	401 Elderberry
154 Laurel Bay	402 Elderberry
155 Laurel Bay	404 Elderberry
200 Balsam	410 Elderberry
202 Balsam	420 Elderberry
203 Balsam	424 Elderberry
208 Balsam	435 Elderberry Tank 3
210 Balsam	452 Elderberry
211 Balsam	460 Elderberry
220 Cypress	465 Dogwood
222 Cypress	477 Laurel Bay
223 Cypress	487Laurel 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
317 Ash	612 Dahlia
318 Ash	628 Dahlia
337 Ash	636 Dahlia
351 Ash Tank 1	637 Dahlia Tank 1
351 Ash Tank 2	637 Dahlia Tank 2
355 Ash Tank 1	641 Dahlia
355 Ash Tank 2	642 Dahlia Tank 1
360 Aspen	642 Dahlia Tank 2

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL 2600 Bull Street • Columbia, SC 29201 • Phone: (803) 898-3432 • www.scdhec.gov 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	