SUMMARY REPORT 321 IRIS LANE (FORMERLY 1128 IRIS LANE) LAUREL BAY MILITARY HOUSING AREA MARINE CORPS AIR STATION BEAUFORT BEAUFORT, SC

> Revision: 0 Prepared for:

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

and



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

JUNE 2021

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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
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 321 Iris Lane (Formerly 1128 Iris Lane). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

The LBMH area is located approximately 3.5 miles west of MCAS Beaufort. The area is approximately 970 acres in size and serves as an enlisted and officer family housing area. The area is configured with single family and duplex residential structures, and includes recreation, open space, and community facilities. The community includes approximately 1,300 housing units, including legacy Capehart style homes and newer duplex style homes. The housing area is bordered on the west by salt marshes and the Broad River, and to the north, east and south by uplands. Forested areas lie along the northern and northeastern borders.



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

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

1.2 UST Removal and Assessment Process

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

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

Soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form. In accordance with SCDHEC's *QAPP for the UST Management Division* (SCDHEC, 2016), the soil screening levels consists of SCDHEC risk-based screening levels (RBSLs). It should be noted that the RBSLs for select PAHs were revised in Revision 2.0 of the QAPP (SCDHEC, 2013) and were revised again in Revision 3.0 (SCDHEC, 2015). The screening levels



used for evaluation at each site were those levels that were in effect at the time of reporting and review by SCDHEC.

The results of the soil sampling at each former UST location were used to determine if a potential for groundwater contamination exists (i.e., soil results greater than RBSLs) and subsequently to select properties for follow-up initial groundwater assessment (IGWA) sampling. The results of the IGWA sampling (if necessary) are used to determine the presence or absence of the aforementioned COPCs in groundwater and identify whether former UST locations will require additional delineation of COPCs in groundwater. In order to delineate the extent of impact to groundwater, permanent wells are installed and a sampling program is established for those former UST locations where IGWA sampling has indicated the presence of COPCs in excess of the SCDHEC RBSLs for groundwater. Groundwater analytical results are also compared to the site specific groundwater vapor intrusion screening levels (VISLs) to evaluate the potential for vapor intrusion 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 321 Iris Lane (Formerly 1128 Iris Lane). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1128 Iris Lane* (MCAS Beaufort, 2014). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On August 29, 2013, a single 280 gallon heating oil UST was removed from the concrete porch area adjacent to the driveway at 321 Iris Lane (Formerly 1128 Iris Lane). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 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, 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 321 Iris Lane (Formerly 1128 Iris Lane) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 321 Iris Lane (Formerly 1128 Iris Lane). 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, 2014. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 1128 Iris Lane, Laurel Bay Military Housing Area, March 2014.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2013. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division, *Revision 2.0*, April 2013.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2015. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division, *Revision 3.0*, May 2015.



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

Table



Table 1Laboratory Analytical Results - Soil321 Iris Lane (Formerly 1128 Iris Lane)Laurel Bay Military Housing AreaMarine Corps Air Station BeaufortBeaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Sample Collected 08/29/13
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	yzed by EPA Method 8270D (mg/kg)	
Benzo(a)anthracene	0.66	ND
Benzo(b)fluoranthene	0.66	ND
Benzo(k)fluoranthene	0.66	ND
Chrysene	0.66	ND
Dibenz(a,h)anthracene	0.66	ND

Notes:

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

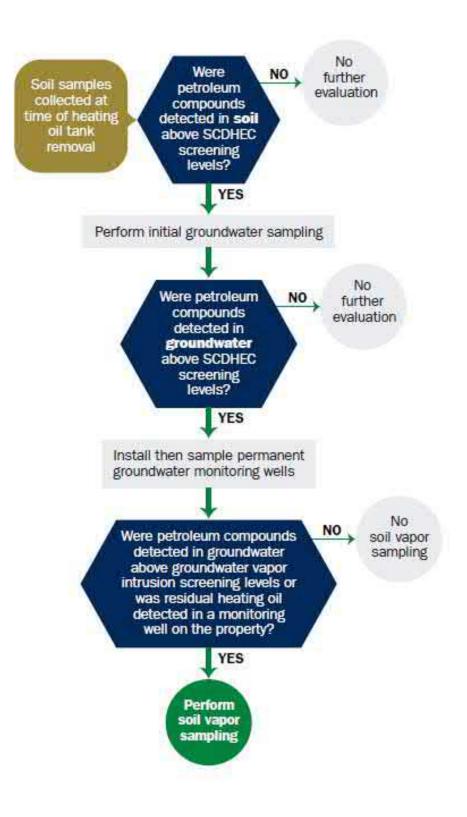
ND - not detected at the reporting limit (or method detection limit if shown on the laboratory report). The laboratory report is provided in Appendix B.

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

Date Received	
	State Use Only
	KELLIVE!)

MAR 1 9 2014

SC DHEC - Bureau 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)

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

II. SITE IDENTIFICATION AND LOCATION

Facility Name or Company	ry Housing Area, Marine Corps Air Station, Beaufort, Site Identifier	SC
1128 Iris Lane, 1	aurel Bay Military Housing Area	
Street Address or State Roa	d (as applicable)	
Beaufort,	Beaufort	
City	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

1 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

		1128Iris
A-	Product(ex. Gas, Kerosene)	Heating oil
B.	Capacity(ex. 1k, 2k)	280 gal
C.	Age	Late 1950s
D.	Construction Material(ex. Steel, FRP)	Steel
Е·	Month/Year of Last Use	Mid 1980s
F.	Depth (ft.) To Base of Tank	6.'
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	8/29/2013
K.	Visible Corrosion or Pitting Y/N	Yes
L.	Visible Holes Y/N	Yes

M. Method of disposal for any USTs removed from the ground (attach disposal manifests) UST 1128Iris was removed from the ground and disposed at a Subtitle "D" landfill. See Attachment "A."

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

UST 1128Iris was previously filled with sand by others.

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

VII. PIPING INFORMATION

В.	Construction Material(ex. Steel, FRP)	Steel & Copper N/A
В.		
	Distance from UST to Dispenser	N/A
C.	Number of Dispensers	N/A
D.	Type of System Pressure or Suction	Suction
E . 7	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.	If any corrosion, pitting, or holes were observed,	describe the location and extent for each piping run

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

VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

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

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 #
128Iris	Excav at fill end	Soil	Sandy	6'	8/29/13 1430 hrs	P. Shaw	
				-			
							-
-							
12-11							
8				÷			
9				1.1	1		
10							
11		19-10 F					
12							
13							
14					1		
15		1 C.		1	1		
16		1				1	
17							
18							
19					I		
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.

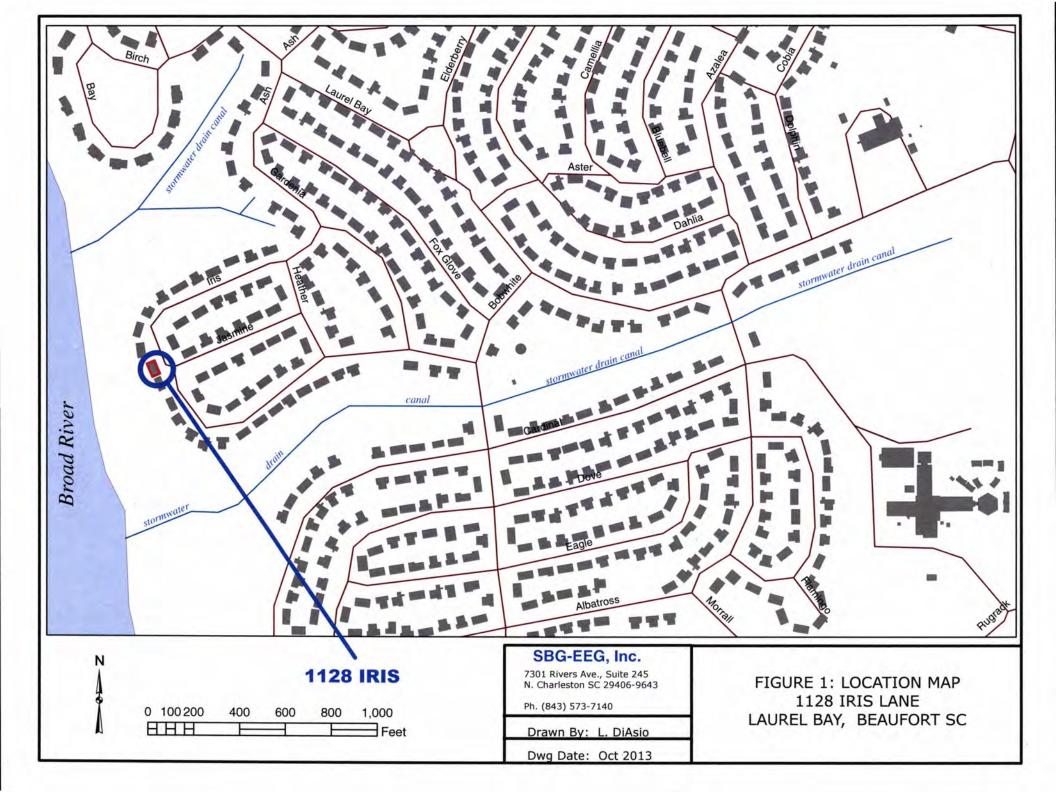
XII. RECEPTORS

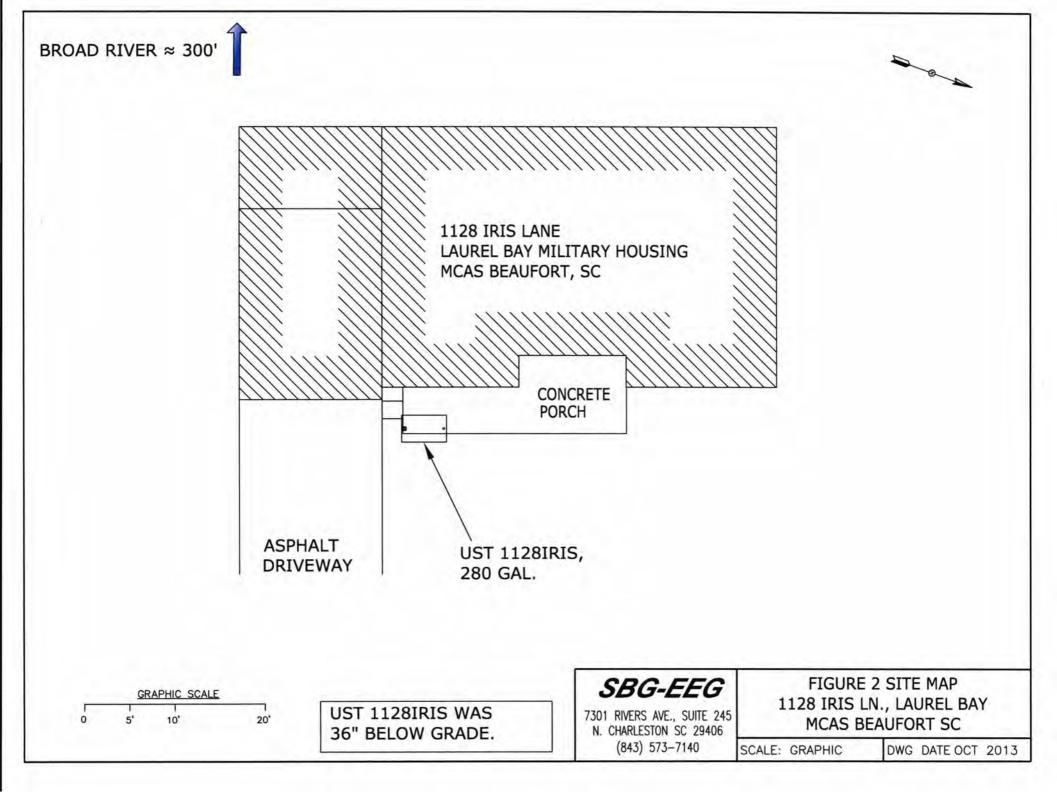
		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? *Broad River	*Х	
	If yes, indicate type of receptor, distance, and direction on site map.		
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		X
	If yes, indicate type of well, distance, and direction on site map.		
C.	Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?		x
	If yes, indicate type of structure, distance, and direction on site map.		
D.	Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? *Sewer, water, 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?	1	X
	If yes, indicate the area of contaminated soil on the site map.		

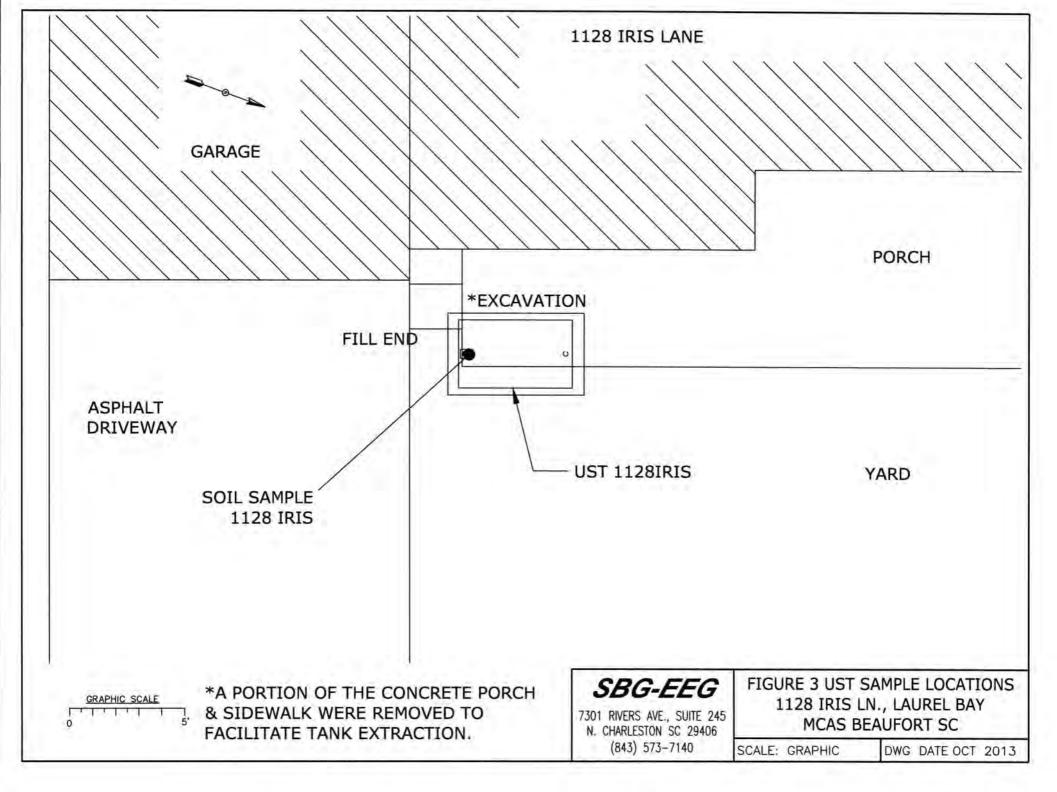
XIII. SITE MAP

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 1128Iris.



Picture 2: UST 1128Iris 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	1128Iris				
Benzene	ND	 			
Toluene	ND		1.01	1.1	
Ethylbenzene	ND			1.1	
Xylenes	ND				
Naphthalene	ND				
Benzo (a) anthracene	ND	- 11			_
Benzo (b) fluoranthene	ND				
Benzo (k) fluoranthene	ND				
Chrysene	ND				
Dibenz (a, h) anthracene	ND		1		
TPH (EPA 3550)					
CoC					
Benzene			()		
Toluene				- 11-	
Ethylbenzene					
Xylenes					
Naphthalene					
Benzo (a) anthracene					
Benzo (b) fluoranthene					
Benzo (k) fluoranthene					
Chrysene					
Dibenz (a, h) anthracene					
TPH (EPA 3550)					

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

CoC	RBSL (µg/l)	W-1	W-2	W -3	W -4
Free Product Thickness	None]	-		
Benzene	5		12		
Toluene	1,000		17.1	·	
Ethylbenzene	700				
Xylenes	10,000		1		
Total BTEX	N/A				
МТВЕ	40				
Naphthalene	25				
Benzo (a) anthracene	10				
Benzo (b) flouranthene	10				
Benzo (k) flouranthene	10	1.1.1			
Chrysene	10				
Dibenz (a, h) anthracene	10				
EDB	.05	1.0.01			
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: 490-34496-1 Client Project/Site: Laurel Bay Site

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

Attn: Tom McElwee

Kuth Hage

Authorized for release by: 9/17/2013 12:29:37 PM

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

LINKS





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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hain of Custody	
eceipt Checklists	

Sample Summary

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

TestAmerica Job ID: 490-34496-1

5

10

13

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	1
490-34496-1	1380 Dove	Solid	08/27/13 15:45	09/04/13 09:05	
490-34496-2	1427 Albatross	Solid	08/28/13 15:30	09/04/13 09:05	
490-34496-3	1128 Iris	Solid	08/29/13 14:30	09/04/13 09:05	100

TestAmerica Nashville

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

Job ID: 490-34496-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-34496-1

Comments

No additional comments.

Receipt

The samples were received on 9/4/2013 9:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.0° C.

Except:

The following sample(s) was received at the laboratory without a sample collection time documented on the chain-of-custody: 1128 Iris (490-34496-3). As a result, a sample collection time consistent with the time written on the sample bottle was used.

GC/MS VOA

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: 1380 Dove (490-34496-1), 1427 Albatross (490-34496-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: The method blank for batch 104803 contained toluene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260B: The method blank for batch 104801 contained Naphthalene and Xylenes above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260B: Internal standard responses were outside of acceptance limits for the following sample(s): 1427 Albatross (490-34496-2). The sample(s) shows evidence of matrix interference.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 105150. see Ics/Icsd

No other analytical or quality issues were noted.

GC/MS Semi VOA

No analytical or quality issues were noted.

Organic Prep No analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

TestAmerica Job ID: 490-34496-1

Definitions/Glossary

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

TestAmerica Job ID: 490-34496-1

4

7

Qualifiers

GC/MS VO	A	
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.	
GC/MS Sen	ni 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

Glossary		8
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CNF	Contains no Free Liquid	
DER	Duplicate error ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision level concentration	12
MDA	Minimum detectable activity	Territor .
EDL	Estimated Detection Limit	13
MDC	Minimum detectable concentration	internal.
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)	

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

Client Sample ID: 1380 Dove

Date Collected: 08/27/13 15:45 Date Received: 09/04/13 09:05

Method: 8260B - Volatile Orga	nic Compounds	(GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00214	0.000715	mg/Kg	53	09/05/13 11:01	09/05/13 16:58	1
Ethylbenzene	0.0377		0.00214	0.000715	mg/Kg	\$35	09/05/13 11:01	09/05/13 16:58	1
Naphthalene	0.0313		0.00534	0.00181	mg/Kg	13	09/05/13 11:01	09/05/13 16:58	1
Toluene	ND		0.00214	0.000790	mg/Kg	13	09/05/13 11:01	09/05/13 16:58	1
Xylenes, Total	0.102		0.00320	0.000715	mg/Kg	, m	09/05/13 11:01	09/05/13 16:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		70 - 130				09/05/13 11:01	09/05/13 16:58	1
4-Bromofluorobenzene (Surr)	365	x	70 - 130				09/05/13 11:01	09/05/13 16:58	1
Dibromofluoromethane (Surr)	90		70 - 130				09/05/13 11:01	09/05/13 16:58	1
Toluene-d8 (Surr)	51	x	70 - 130				09/05/13 11:01	09/05/13 16:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0668	0.00996	mg/Kg	11	09/09/13 07:20	09/09/13 20:08	1
Acenaphthylene	0.0628	J	0.0668	0.00897	mg/Kg	13	09/09/13 07:20	09/09/13 20:08	1
Anthracene	0.0966		0.0668	0.00897	mg/Kg	п	09/09/13 07:20	09/09/13 20:08	1
Benzo[a]anthracene	ND		0.0668	0.0149	mg/Kg	10	09/09/13 07:20	09/09/13 20:08	1
Benzo[a]pyrene	ND		0.0668	0.0120	mg/Kg	n	09/09/13 07:20	09/09/13 20:08	1
Benzo[b]fluoranthene	ND		0.0668	0.0120	mg/Kg	12	09/09/13 07:20	09/09/13 20:08	1
Benzo[g,h,i]perylene	ND		0.0668	0.00897	mg/Kg	17	09/09/13 07:20	09/09/13 20:08	1
Benzo[k]fluoranthene	ND		0.0668	0.0140	mg/Kg	C	09/09/13 07:20	09/09/13 20:08	1
1-Methylnaphthalene	0.221		0.0668	0.0140	mg/Kg	ä	09/09/13 07:20	09/09/13 20:08	1
Pyrene	0.113		0.0668	0.0120	mg/Kg	2	09/09/13 07:20	09/09/13 20:08	1
Phenanthrene	0.594		0.0668	0.00897	mg/Kg	a	09/09/13 07:20	09/09/13 20:08	1
Chrysene	ND		0.0668	0.00897	mg/Kg	53	09/09/13 07:20	09/09/13 20:08	1
Dibenz(a,h)anthracene	ND		0.0668	0.00698	mg/Kg	12	09/09/13 07:20	09/09/13 20:08	1
Fluoranthene	0.0496	J	0.0668	0.00897	mg/Kg	12	09/09/13 07:20	09/09/13 20:08	1
Fluorene	ND		0.0668	0.0120	mg/Kg	8	09/09/13 07:20	09/09/13 20:08	1
Indeno[1,2,3-cd]pyrene	ND		0.0668	0.00996	mg/Kg	12	09/09/13 07:20	09/09/13 20:08	1
Naphthalene	ND		0.0668	0.00897	mg/Kg	12	09/09/13 07:20	09/09/13 20:08	1
2-Methylnaphthalene	0.164		0.0668	0.0159	mg/Kg	32	09/09/13 07:20	09/09/13 20:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	66		29 - 120				09/09/13 07:20	09/09/13 20:08	1
Terphenyl-d14 (Surr)	86		13 - 120				09/09/13 07:20	09/09/13 20:08	1
Nitrobenzene-d5 (Surr)	61		27 - 120				09/09/13 07:20	09/09/13 20:08	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83		0.10	0.10	%			09/05/13 09:40	1

TestAmerica Job ID: 490-34496-1

Lab Sample ID: 490-34496-1

Matrix: Solid Percent Solids: 83.4

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Client Sample ID: 1427 Albatross

Date Collected: 08/28/13 15:30 Date Received: 09/04/13 09:05

Naphthalene

ale Received. 03/04/13 03.03								i crociit oon	00.01.2
Method: 8260B - Volatile Orga	nic Compounds	(GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00221		0.00192	0.000643	mg/Kg	272	09/05/13 11:01	09/05/13 17:27	1
Ethylbenzene	0.343		0.138	0.0468	mg/Kg	55 E	09/05/13 11:18	09/06/13 16:27	1
Naphthalene	4.72		0.344	0.117	mg/Kg	11	09/05/13 11:18	09/06/13 16:27	1
Toluene	ND		0.138	0.0510	mg/Kg	п	09/05/13 11:18	09/06/13 16:27	1
Xylenes, Total	ND		0.207	0.0468	mg/Kg	П	09/05/13 11:18	09/06/13 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2-Dichloroethane-d4 (Surr)	86		70 - 130				09/05/13 11:01	09/05/13 17:27	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 130				09/05/13 11:18	09/06/13 16:27	1
4-Bromofluorobenzene (Surr)	150	x	70 - 130				09/05/13 11:01	09/05/13 17:27	1
4-Bromofluorobenzene (Surr)	93		70 - 130				09/05/13 11:18	09/06/13 16:27	1
Dibromofluoromethane (Surr)	94		70 - 130				09/05/13 11:01	09/05/13 17:27	1
Dibromofluoromethane (Surr)	88		70 - 130				09/05/13 11:18	09/06/13 16:27	1
Toluene-d8 (Surr)	129		70 - 130				09/05/13 11:01	09/05/13 17:27	1
Toluene-d8 (Surr)	104		70 - 130				09/05/13 11:18	09/06/13 16:27	1
Method: 8270D - Semivolatile	Organic Compou	inds (GC/M	5)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0990		0.0670	0.0100	mg/Kg	Ö	09/09/13 07:20	09/09/13 21:18	1
Acenaphthylene	0.0670		0.0670	0.00900	mg/Kg	LI.	09/09/13 07:20	09/09/13 21:18	1
Anthracene	0.0903		0.0670	0.00900	mg/Kg	13	09/09/13 07:20	09/09/13 21:18	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg	13	09/09/13 07:20	09/09/13 21:18	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg	13	09/09/13 07:20	09/09/13 21:18	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg	-	09/09/13 07:20	09/09/13 21:18	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg	50	09/09/13 07:20	09/09/13 21:18	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg	31	09/09/13 07:20	09/09/13 21:18	1
1-Methylnaphthalene	0.615		0.0670	0.0140	mg/Kg	12	09/09/13 07:20	09/09/13 21:18	1
Pyrene	0.103		0.0670	0.0120		17	09/09/13 07:20	09/09/13 21:18	1
Phenanthrene	0.441		0.0670	0.00900	mg/Kg	23	09/09/13 07:20	09/09/13 21:18	1
Chrysene	ND		0.0670	0.00900	mg/Kg	13	09/09/13 07:20	09/09/13 21:18	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg	п	09/09/13 07:20	09/09/13 21:18	1
Fluoranthene	ND		0.0670	0.00900		57	09/09/13 07:20	09/09/13 21:18	1
Fluorene	0.254		0.0670	0.0120	0.0	32	09/09/13 07:20	09/09/13 21:18	1
Indeno[1,2,3-cd]pyrene	ND		0.0670		mg/Kg	23	09/09/13 07:20	09/09/13 21:18	1
The second s									

2-Methylnaphthalene	0.609		0.0670	0.0160	mg/Kg		09/09/13 07:20	09/09/13 21:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	58		29 - 120				09/09/13 07:20	09/09/13 21:18	1
Terphenyl-d14 (Surr)	79		13 - 120				09/09/13 07:20	09/09/13 21:18	1
Nitrobenzene-d5 (Surr)	55		27 - 120				09/09/13 07:20	09/09/13 21:18	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81		0.10	0.10	%			09/05/13 09:40	1

0.0670

0.00900 mg/Kg

0.0510 J

12

09/09/13 07:20

Lab Sample ID: 490-34496-2

Matrix: Solid Percent Solids: 81.2

6

09/09/13 21:18

1 1

Client Sample ID: 1128 Iris

Date Collected: 08/29/13 14:30 Date Received: 09/04/13 09:05

Lab Sample ID: 490-34496-3

Matrix: Solid Percent Solids: 85.9

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9 19 11

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00226	0.000757	mg/Kg	12	09/05/13 11:01	09/06/13 14:01	1
Ethylbenzene	ND		0.00226	0.000757	mg/Kg	0	09/05/13 11:01	09/06/13 14:01	1
Naphthalene	ND		0.00565	0.00192	mg/Kg	×2	09/05/13 11:01	09/06/13 14:01	1
Toluene	ND		0.00226	0.000836	mg/Kg	a	09/05/13 11:01	09/06/13 14:01	1
Xylenes, Total	ND		0.00339	0.000757	mg/Kg	-	09/05/13 11:01	09/06/13 14:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		70 - 130				09/05/13 11:01	09/06/13 14:01	1
4-Bromofluorobenzene (Surr)	113		70 - 130				09/05/13 11:01	09/06/13 14:01	1
Dibromofluoromethane (Surr)	93		70 - 130				09/05/13 11:01	09/06/13 14:01	1
Toluene-d8 (Surr)	103		70 - 130				09/05/13 11:01	09/06/13 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0668	0.00997	mg/Kg	Ш	09/09/13 07:20	09/09/13 21:42	1
Acenaphthylene	ND		0.0668	0.00898	mg/Kg	12	09/09/13 07:20	09/09/13 21:42	1
Anthracene	ND		0.0668	0.00898	mg/Kg	12	09/09/13 07:20	09/09/13 21:42	1
Benzo[a]anthracene	ND		0.0668	0.0150	mg/Kg	22	09/09/13 07:20	09/09/13 21:42	1
Benzo[a]pyrene	ND		0.0668	0.0120	mg/Kg	-23	09/09/13 07:20	09/09/13 21:42	1
Benzo[b]fluoranthene	ND		0.0668	0.0120	mg/Kg	Ø	09/09/13 07:20	09/09/13 21:42	1
Benzo[g,h,i]perylene	0.0970		0.0668	0.00898	mg/Kg	12	09/09/13 07:20	09/09/13 21:42	1
Benzo[k]fluoranthene	ND		0.0668	0.0140	mg/Kg	17	09/09/13 07:20	09/09/13 21:42	1
1-Methylnaphthalene	ND		0.0668	0.0140	mg/Kg	13	09/09/13 07:20	09/09/13 21:42	1
Pyrene	0.0376	J	0.0668	0.0120	mg/Kg	12	09/09/13 07:20	09/09/13 21:42	1
Phenanthrene	ND		0.0668	0.00898	mg/Kg	12	09/09/13 07:20	09/09/13 21:42	1
Chrysene	ND		0.0668	0.00898	mg/Kg	17	09/09/13 07:20	09/09/13 21:42	1
Dibenz(a,h)anthracene	ND		0.0668	0.00698	mg/Kg	ti	09/09/13 07:20	09/09/13 21:42	1
Fluoranthene	0.0405	J	0.0668	0.00898	mg/Kg	8	09/09/13 07:20	09/09/13 21:42	1
Fluorene	ND		0.0668	0.0120	mg/Kg	α	09/09/13 07:20	09/09/13 21:42	1
Indeno[1,2,3-cd]pyrene	0.0536	J	0.0668	0.00997	mg/Kg	5	09/09/13 07:20	09/09/13 21:42	1
Naphthalene	ND		0.0668	0.00898	mg/Kg	27	09/09/13 07:20	09/09/13 21:42	1
2-Methylnaphthalene	ND		0.0668	0.0160	mg/Kg	2	09/09/13 07:20	09/09/13 21:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	61		29 - 120				09/09/13 07:20	09/09/13 21:42	1
Terphenyl-d14 (Surr)	68		13 - 120				09/09/13 07:20	09/09/13 21:42	1
Nitrobenzene-d5 (Surr)	56		27 - 120				09/09/13 07:20	09/09/13 21:42	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86		0.10	0.10	%			09/05/13 09:40	1

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

Lab Sample ID: MB 490-104801/6 Matrix: Solid Analysis Batch: 104801

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

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			09/05/13 11:57	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			09/05/13 11:57	1
Naphthalene	0.001933	J	0.00500	0.00170	mg/Kg			09/05/13 11:57	1
Toluene	ND		0.00200	0.000740	mg/Kg			09/05/13 11:57	1
Xylenes, Total	0.0006947	J	0.00300	0.000670	mg/Kg			09/05/13 11:57	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130					09/05/13 11:57	1
4-Bromofluorobenzene (Surr)	101		70 - 130					09/05/13 11:57	1
Dibromofluoromethane (Surr)	91		70 - 130					09/05/13 11:57	1
Toluene-d8 (Surr)	104		70 - 130					09/05/13 11:57	1

Lab Sample ID: LCS 490-104801/29 Matrix: Solid Analysis Batch: 104801

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0500	0.05140		mg/Kg		103	75 - 127	
Ethylbenzene	0.0500	0.05300		mg/Kg		106	80 - 134	
Naphthalene	0.0500	0.05679		mg/Kg		114	69 - 150	
Toluene	0.0500	0.05132		mg/Kg		103	80 - 132	
Xylenes, Total	0.100	0.1051		mg/Kg		105	80 - 137	

	LCS	LUS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Lab Sample ID: LCSD 490-104801/30 Matrix: Solid

Analysis Batch: 104801

		Spike	LCSD	LCSD				%Rec.		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene		0.0500	0.04917		mg/Kg		98	75 - 127	4	50
Ethylbenzene		0.0500	0.05009		mg/Kg		100	80 - 134	6	50
Naphthalene		0.0500	0.05890		mg/Kg		118	69 - 150	4	50
Toluene		0.0500	0.04883		mg/Kg		98	80 - 132	5	50
Xylenes, Total		0.100	0.09898		mg/Kg		99	80 - 137	6	50
	LCSD LCSD									
A CONTRACTOR OF	ALD	1 1-14-								

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

TestAmerica Job ID: 490-34496-1

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

Lab Sample ID: MB 490-104803/7 Matrix: Solid Analysis Batch: 104803

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

7

Analysis batch: 104005									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			09/05/13 12:33	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			09/05/13 12:33	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			09/05/13 12:33	1
Toluene	0.0009890	J	0.00200	0.000740	mg/Kg			09/05/13 12:33	1
Xylenes, Total	ND		0.00300	0.000670	mg/Kg			09/05/13 12:33	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	74		70 - 130					09/05/13 12:33	1
4-Bromofluorobenzene (Surr)	119		70 - 130					09/05/13 12:33	1
Dibromofluoromethane (Surr)	85		70 - 130					09/05/13 12:33	1
Toluene-d8 (Surr)	105		70 - 130					09/05/13 12:33	1

Lab Sample ID: LCS 490-104803/4 Matrix: Solid

Analysis Batch: 104803

		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene		0.0500	0.04244		mg/Kg		85	75 - 127	
Ethylbenzene		0.0500	0.04669		mg/Kg		93	80 - 134	
Naphthalene		0.0500	0.06116		mg/Kg		122	69 - 150	
Toluene		0.0500	0.04987		mg/Kg		100	80 - 132	
Xylenes, Total		0.150	0.1341		mg/Kg		89	80 - 137	
	105 105								

200	200	
%Recovery	Qualifier	Limits
79		70 - 130
109		70 - 130
86		70 - 130
104		70 - 130
	%Recovery 79 109 86	79 109 86

Lab Sample ID: LCSD 490-104803/5 Matrix: Solid

Analysis Batch: 104803

state and a state			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.0500	0.04398		mg/Kg		88	75 - 127	4	50
Ethylbenzene			0.0500	0.04739		mg/Kg		95	80 - 134	1	50
Naphthalene			0.0500	0.06072		mg/Kg		121	69 - 150	1	50
Toluene			0.0500	0.05058		mg/Kg		101	80 - 132	1	50
Xylenes, Total			0.150	0.1359		mg/Kg		91	80 - 137	1	50
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80		70 - 130
4-Bromofluorobenzene (Surr)	111		70 - 130
Dibromofluoromethane (Surr)	86		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Client Sample ID: Lab Control Sample

Prep	Type:	Total/NA

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

Analyte

Benzene

Toluene

Ethylbenzene

Naphthalene

Xylenes, Total

TestAmerica Job ID: 490-34496-1

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 104871

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

Sample Sample **Result** Qualifier

ND

ND

ND

ND

ND

Lab Sample ID: 490-34477-E-1-A MS Matrix: Solid Analysis Batch: 104801

						Prep Batch: 104
Spike	MS	MS				%Rec.
Added	Result	Qualifier	Unit	D	%Rec	Limits
0.0551	0.05128		mg/Kg	П	93	31 - 143
0.0551	0.04314		mg/Kg	12	78	23 - 161
0.0551	0.01815		mg/Kg	Č2	33	10 - 176
0.0551	0.04518		mg/Kg	tit.	82	30 - 155
0.110	0.08351		mg/Kg	Ш	76	25 - 162

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Lab Sample ID: 490-34477-F-1-A MSD Matrix: Solid Analysis Batch: 104801

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		0.0495	0.04337		mg/Kg	12	88	31 . 143	17	50
Ethylbenzene	ND		0.0495	0.03991		mg/Kg	57	81	23 - 161	8	50
Naphthalene	ND		0.0495	0.02060		mg/Kg	312	42	10 - 176	13	50
Toluene	ND		0.0495	0.04064		mg/Kg	11	82	30 - 155	11	50
Xylenes, Total	ND		0.0989	0.07726		mg/Kg	12	78	25 - 162	8	50
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	97		70 - 130								
4-Bromofluorobenzene (Surr)	103		70 - 130								
Dibromofluoromethane (Surr)	100		70 - 130								
Toluene-d8 (Surr)	103		70 - 130								

Lab Sample ID: MB 490-105150/7 Matrix: Solid Analysis Batch: 105150

t Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
D	0.00200	0.000670	mg/Kg			09/06/13 13:02	1
C	0.00200	0.000670	mg/Kg			09/06/13 13:02	1
D	0.00500	0.00170	mg/Kg			09/06/13 13:02	1
D	0.00200	0.000740	mg/Kg			09/06/13 13:02	1
D	0.00300	0.000670	mg/Kg			09/06/13 13:02	1
B MB							
y Qualifier	Limits				Prepared	Analyzed	Dil Fac
1	70 - 130					09/06/13 13:02	1
3	70 - 130					09/06/13 13:02	1
7	70 - 130					09/06/13 13:02	1
4	70 - 130					09/06/13 13:02	1
		D 0.00200 D 0.00200 D 0.00500 D 0.00200 D 0.00200 D 0.00300 B MB ry Qualifier Limits 31 70 - 130 13 70 - 130 37 70 - 130	D 0.00200 0.000670 D 0.00200 0.000670 D 0.00500 0.00170 D 0.00200 0.000740 D 0.00300 0.000670 D 0.00300 0.000670 B MB - ry Qualifier Limits 31 70 - 130 37 70 - 130	D 0.00200 0.000670 mg/Kg D 0.00200 0.000670 mg/Kg D 0.00500 0.00170 mg/Kg D 0.00200 0.000740 mg/Kg D 0.00300 0.000670 mg/Kg D 0.00300 0.000670 mg/Kg B MB - - 91 70 - 130 - - 13 70 - 130 - - 137 70 - 130 - -	D 0.00200 0.000670 mg/Kg D 0.00200 0.000670 mg/Kg D 0.00500 0.00170 mg/Kg D 0.00200 0.000740 mg/Kg D 0.00300 0.000670 mg/Kg D 0.00300 0.000670 mg/Kg B MB - - 31 70 - 130 - 37 70 - 130 -	D 0.00200 0.000670 mg/Kg D 0.00200 0.000670 mg/Kg D 0.00500 0.00170 mg/Kg D 0.00200 0.000740 mg/Kg D 0.00300 0.000670 mg/Kg B MB ry Qualifier Limits Prepared 31 70 - 130 33 70 - 130 37 70 - 130	D 0.00200 0.000670 mg/Kg 09/06/13 13:02 D 0.00200 0.000670 mg/Kg 09/06/13 13:02 D 0.00500 0.00170 mg/Kg 09/06/13 13:02 D 0.00200 0.000740 mg/Kg 09/06/13 13:02 D 0.00200 0.000740 mg/Kg 09/06/13 13:02 D 0.00200 0.000670 mg/Kg 09/06/13 13:02 D 0.00300 0.000670 mg/Kg 09/06/13 13:02 D 0.00300 0.000670 mg/Kg 09/06/13 13:02 B MB Prepared Analyzed 31 70 - 130 09/06/13 13:02 09/06/13 13:02 13 70 - 130 09/06/13 13:02 09/06/13 13:02 367 70 - 130 09/06/13 13:02 09/06/13 13:02

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

Lab Sample ID: MB 490-105150/8
Matrix: Solid
Analysis Batch: 105150

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

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.100	0.0335	mg/Kg			09/06/13 13:31	1
Ethylbenzene	ND		0.100	0.0335	mg/Kg			09/06/13 13:31	1
Naphthalene	ND		0.250	0.0850	mg/Kg			09/06/13 13:31	1
Toluene	ND		0.100	0.0370	mg/Kg			09/06/13 13:31	1
Xylenes, Total	ND		0.150	0.0335	mg/Kg			09/06/13 13:31	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		70 - 130					09/06/13 13:31	1
4-Bromofluorobenzene (Surr)	113		70 - 130					09/06/13 13:31	1
Dibromofluoromethane (Surr)	89		70 - 130					09/06/13 13:31	1
Toluene-d8 (Surr)	103		70 - 130					09/06/13 13:31	1

Lab Sample ID: LCS 490-105150/4 Matrix: Solid Analysis Batch: 105150

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0500	0.04454		mg/Kg		89	75 - 127	
Ethylbenzene	0.0500	0.04810		mg/Kg		96	80 - 134	
Naphthalene	0.0500	0.06038		mg/Kg		121	69 - 150	
Toluene	0.0500	0.05069		mg/Kg		101	80 - 132	
Xylenes, Total	0.150	0.1364		mg/Kg		91	80 - 137	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	77		70 - 130
4-Bromofluorobenzene (Surr)	110		70 - 130
Dibromofluoromethane (Surr)	87		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Lab Sample ID: LCSD 490-105150/5 Matrix: Solid

Analysis Batch: 105150

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.0500	0.04415		mg/Kg		88	75 - 127	1	50
Ethylbenzene			0.0500	0.04806		mg/Kg		96	80 - 134	0	50
Naphthalene			0.0500	0.05978		mg/Kg		120	69 - 150	1	50
Toluene			0.0500	0.05006		mg/Kg		100	80 - 132	1	50
Xylenes, Total			0.150	0.1380		mg/Kg		92	80 - 137	1	50
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	84		70 - 130								
4-Bromofluorobenzene (Surr)	112		70 - 130								
Dibromofluoromethane (Surr)	89		70 - 130								
Toluene-d8 (Surr)	104		70 - 130								

R

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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

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

Lab Sample ID: MB 490-105553/1-A Matrix: Solid Analysis Batch: 105537

Client Sample ID: Method Blank

Prep Type: Total/NA

Matrix. Joing								the the the		
Analysis Batch: 105537								Prep Batch:	105553	
	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Acenaphthene	ND		0.0670	0.0100	mg/Kg		09/09/13 07:20	09/09/13 19:45	1	
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		09/09/13 07:20	09/09/13 19:45	1	
Anthracene	ND		0.0670	0.00900	mg/Kg		09/09/13 07:20	09/09/13 19:45	1	
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		09/09/13 07:20	09/09/13 19:45	1	
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		09/09/13 07:20	09/09/13 19:45	1	
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		09/09/13 07:20	09/09/13 19:45	1	-
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		09/09/13 07:20	09/09/13 19:45	1	
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		09/09/13 07:20	09/09/13 19:45	1	
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		09/09/13 07:20	09/09/13 19:45	1	
Pyrene	ND		0.0670	0.0120	mg/Kg		09/09/13 07:20	09/09/13 19:45	1	
Phenanthrene	ND		0.0670	0.00900	mg/Kg		09/09/13 07:20	09/09/13 19:45	1	
Chrysene	ND		0.0670	0.00900	mg/Kg		09/09/13 07:20	09/09/13 19:45	1	
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		09/09/13 07:20	09/09/13 19:45	1	
Fluoranthene	ND		0.0670	0.00900	mg/Kg		09/09/13 07:20	09/09/13 19:45	1	
Fluorene	ND		0.0670	0.0120	mg/Kg		09/09/13 07:20	09/09/13 19:45	1	2
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		09/09/13 07:20	09/09/13 19:45	1	15
Naphthalene	ND		0.0670	0.00900	mg/Kg		09/09/13 07:20	09/09/13 19:45	1	
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		09/09/13 07:20	09/09/13 19:45	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
2-Fluorobiphenyl (Surr)	60		29 - 120				09/09/13 07:20	09/09/13 19:45	1	
Terphenyl-d14 (Surr)	74		13 - 120				09/09/13 07:20	09/09/13 19:45	1	

Lab Sample ID: LCS 490-105553/2-A Matrix: Solid

Analysis Batch: 105537

Nitrobenzene-d5 (Surr)

and the second second second	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.67	1.114		mg/Kg		67	38 - 120
Anthracene	1.67	1.221		mg/Kg		73	46 - 124
Benzo[a]anthracene	1.67	1.218		mg/Kg		73	45 - 120
Benzo[a]pyrene	1.67	1.220		mg/Kg		73	45 - 120
Benzo[b]fluoranthene	1.67	1.200		mg/Kg		72	42 - 120
Benzo[g,h,i]perylene	1.67	1.195		mg/Kg		72	38 - 120
Benzo[k]fluoranthene	1.67	1.268		mg/Kg		76	42 - 120
1-Methylnaphthalene	1.67	1.097		mg/Kg		66	32 - 120
Pyrene	1.67	1.173		mg/Kg		70	43 - 120
Phenanthrene	1.67	1.187		mg/Kg		71	45 - 120
Chrysene	1.67	1.214		mg/Kg		73	43 - 120
Dibenz(a,h)anthracene	1.67	1.265		mg/Kg		76	32 - 128
Fluoranthene	1.67	1.264		mg/Kg		76	46 - 120
Fluorene	1.67	1.150		mg/Kg		69	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.196		mg/Kg		72	41 - 121
Naphthalene	1.67	1.044		mg/Kg		63	32 - 120
2-Methylnaphthalene	1.67	1.082		mg/Kg		65	28 - 120

27 - 120

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Client Sample ID: Lab Control Sample

09/09/13 19:45

09/09/13 07:20

Prep Type: Total/NA Prep Batch: 105553

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

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Lab Sample ID: LCS 490-105553/2-A Matrix: Solid Analysis Batch: 105537

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	57		29 - 120
Terphenyl-d14 (Surr)	72		13 - 120
Nitrobenzene-d5 (Surr)	59		27 - 120

Lab Sample ID: 490-34496-1 MS Matrix: Solid Analysis Batch: 105537

Analysis Batch: 105537		art de	6.65	6.0					Prep
		Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	0.0628	J	1.64	1.172		mg/Kg	13	68	25 - 120
Anthracene	0.0966		1.64	1.375		mg/Kg	12	78	28 - 125
Benzo[a]anthracene	ND		1.64	1.313		mg/Kg	22	80	23 - 120
Benzo[a]pyrene	ND		1.64	1.250		mg/Kg	30	76	15 - 128
Benzo[b]fluoranthene	ND		1.64	1.203		mg/Kg	23	74	12 - 133
Benzo[g,h,i]perylene	ND		1.64	1.323		mg/Kg	τ ι	81	22 - 120
Benzo[k]fluoranthene	ND		1.64	1.245		mg/Kg	IJ	76	28 - 120
1-Methylnaphthalene	0.221		1.64	1.486		mg/Kg	52	77	10 - 120
Pyrene	0.113		1.64	1.501		mg/Kg	n	85	20 - 123
Phenanthrene	0.594		1.64	1.997		mg/Kg	23	86	21 - 122
Chrysene	ND		1.64	1.300		mg/Kg	12	79	20 - 120
Dibenz(a,h)anthracene	ND		1.64	1.344		mg/Kg	13	82	12 - 128
Fluoranthene	0.0496	J	1.64	1.294		mg/Kg	-	76	10 - 143
Fluorene	ND		1.64	1.432		mg/Kg	а	88	20 - 120
Indeno[1,2,3-cd]pyrene	ND		1.64	1.261		mg/Kg	12	77	22 - 121
Naphthalene	ND		1.64	0.9806		mg/Kg	30	60	10 - 120
2-Methylnaphthalene	0.164		1.64	1.348		mg/Kg	n	72	13 - 120
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
2-Fluorobiphenyl (Surr)	55		29 - 120						
Terphenyl-d14 (Surr)	80		13 - 120						

27 - 120

Lab Sample ID: 490-34496-1 MSD Matrix: Solid Analysis Batch: 105537

Nitrobenzene-d5 (Surr)

Analysis Batch: 105537									Prep	Batch: 1	05553
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	0.0628	J	1.66	1.175		mg/Kg	п	67	25 - 120	0	50
Anthracene	0.0966		1.66	1.379		mg/Kg	22	77	28 - 125	0	49
Benzo[a]anthracene	ND		1.66	1.253		mg/Kg	25	76	23 - 120	5	50
Benzo[a]pyrene	ND		1.66	1.212		mg/Kg	22	73	15 - 128	3	50
Benzo[b]fluoranthene	ND		1.66	1.268		mg/Kg	17	76	12 - 133	5	50
Benzo[g,h,i]perylene	ND		1.66	1.268		mg/Kg	3,2	76	22 - 120	4	50
Benzo[k]fluoranthene	ND		1.66	1.132		mg/Kg	53	68	28 - 120	10	45
1-Methylnaphthalene	0.221		1.66	1.463		mg/Kg	ц	75	10 - 120	2	50
Pyrene	0.113		1.66	1.448		mg/Kg	53	81	20 - 123	4	50
Phenanthrene	0.594		1.66	2.073		mg/Kg	52	89	21 - 122	4	50
Chrysene	ND		1.66	1.211		mg/Kg	0	73	20 - 120	7	49

TestAmerica Job ID: 490-34496-1

Clie	nt Sample ID: 1380 Dove
	Prep Type: Total/NA
	Prep Batch: 105553
	%Rec.
Rec	Limits
68	25 - 120

TestAmerica Nashville

Client Sample ID: 1380 Dove

Prep Type: Total/NA

TestAmerica Job ID: 490-34496-1

Client Sample ID: 1380 Dove Prep Type: Total/NA

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13

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

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Lab Sample ID: 490-34496-1 MSD Matrix: Solid

Analysis Batch: 105537									Prep	Batch: 1	05553
the stand of the	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Dibenz(a,h)anthracene	ND		1.66	1.282		mg/Kg	μ.	77	12 - 128	5	50
Fluoranthene	0.0496	J	1.66	1.295		mg/Kg	α	75	10 - 143	0	50
Fluorene	ND		1.66	1.454		mg/Kg	α	88	20 - 120	2	50
Indeno[1,2,3-cd]pyrene	ND		1.66	1.218		mg/Kg	12	73	22 - 121	3	50
Naphthalene	ND		1.66	1.046		mg/Kg	12	63	10 - 120	6	50
2-Methylnaphthalene	0.164		1.66	1.296		mg/Kg	12	68	13 - 120	4	50
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
2-Fluorobiphenyl (Surr)	52		29 - 120								
Terphenyl-d14 (Surr)	74		13 - 120								

Method: Moisture - Percent Moisture

Nitrobenzene-d5 (Surr)

Lab Sample ID: 490-34488-A-1 DU							Client Sample ID: Dup	
Matrix: Solid							Prep Type: To	tal/NA
Analysis Batch: 104823								
	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Percent Solids	84		85		%		0.8	20

27 - 120

QC Association Summary

Client: Small Business Group Inc. Project/Site: Laurel Bay Site TestAmerica Job ID: 490-34496-1

7 8 9

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3

GC/MS VOA

Analysis Batch: 104801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-34477-E-1-A MS	Matrix Spike	Total/NA	Solid	8260B	104871
490-34477-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	104871
LCS 490-104801/29	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-104801/30	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-104801/6	Method Blank	Total/NA	Solid	8260B	
Analysis Batch: 104803	1				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-34496-1	1380 Dove	Total/NA	Solid	8260B	104871
490-34496-2	1427 Albatross	Total/NA	Solid	8260B	104871
LCS 490-104803/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-104803/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-104803/7	Method Blank	Total/NA	Solid	8260B	
Prep Batch: 104871					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
490-34477-E-1-A MS	Matrix Spike	Total/NA	Solid	5035	Frep batch
490-34477-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
490-34496-1	1380 Dove	Total/NA	Solid	5035	
490-34496-2	1427 Albatross	Total/NA	Solid	5035	
490-34496-3	1128 Iris	Total/NA	Solid	5035	
			Cond		
Prep Batch: 104873					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-34496-2	1427 Albatross	Total/NA	Solid	5035	
Analysis Batch: 105150)				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-34496-2	1427 Albatross	Total/NA	Solid	8260B	104873
490-34496-3	1128 Iris	Total/NA	Solid	8260B	104871
LCS 490-105150/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-105150/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-105150/7	Method Blank	Total/NA	Solid	8260B	
MB 490-105150/8	Method Blank	Total/NA	Solid	8260B	
GC/MS Semi VOA					
Analysis Batch: 105537	,				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-34496-1	1380 Dove	Total/NA.	Solid	8270D	105553
490-34496-1 MS	1380 Dove	Total/NA	Solid	8270D	105553
490-34496-1 MSD	1380 Dove	Total/NA	Solid	8270D	105553
490-34496-2	1427 Albatross	Total/NA	Solid	8270D	105553
490-34496-3	1128 Iris	Total/NA	Solid	8270D	105553
LCS 490-105553/2-A	Lab Control Sample	Total/NA	Solid	8270D	105553
MB 490-105553/1-A	Method Blank	Total/NA	Solid	8270D	105553
Prep Batch: 105553					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-34496-1	1380 Dove	Total/NA	Solid	3550C	Sector mentals

QC Association Summary

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

GC/MS Semi VOA (Continued)

Prep Batch: 105553 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-34496-1 MS	1380 Dove	Total/NA	Solid	3550C	
490-34496-1 MSD	1380 Dove	Total/NA	Solid	3550C	
490-34496-2	1427 Albatross	Total/NA	Solid	3550C	
490-34496-3	1128 Iris	Total/NA	Solid	3550C	
LCS 490-105553/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-105553/1-A	Method Blank	Total/NA	Solid	3550C	

General Chemistry

Analysis Batch: 104823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-34488-A-1 DU	Duplicate	Total/NA	Solid	Moisture	
490-34496-1	1380 Dove	Total/NA	Solid	Moisture	
490-34496-2	1427 Albatross	Total/NA	Solid	Moisture	
490-34496-3	1128 Iris	Total/NA	Solid	Moisture	

TestAmerica Job ID: 490-34496-1

Client Sample ID: 1380 Dove

Date Collected: 08/27/13 15:45 Date Received: 09/04/13 09:05

Lab Sample ID: 490-34496-1

Matrix: Solid Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			104871	09/05/13 11:01	GLN	TAL NSH
Total/NA	Analysis	8260B		1	104803	09/05/13 16:58	ккк	TAL NSH
Total/NA	Prep	3550C			105553	09/09/13 07:20	LP	TAL NSH
Total/NA	Analysis	8270D		1	105537	09/09/13 20:08	KJP	TAL NSH
Total/NA	Analysis	Moisture		1	104823	09/05/13 09:40	RRS	TAL NSH

Client Sample ID: 1427 Albatross

Date Collected: 08/28/13 15:30 Date Received: 09/04/13 09:05

Lab	Sample	ID:	490-34496-2
			Matrix: Solid

Percent Solids: 81.2

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			104871	09/05/13 11:01	GLN	TAL NSH
Total/NA	Analysis	8260B		1	104803	09/05/13 17:27	KKK	TAL NSH
Total/NA	Prep	5035			104873	09/05/13 11:18	GLN	TAL NSH
Total/NA	Analysis	8260B		1	105150	09/06/13 16:27	ккк	TAL NSH
Total/NA	Prep	3550C			105553	09/09/13 07:20	LP	TAL NSH
Total/NA	Analysis	8270D		1	105537	09/09/13 21:18	KJP	TAL NSH
Total/NA	Analysis	Moisture		1	104823	09/05/13 09:40	RRS	TAL NSH

Client Sample ID: 1128 Iris Date Collected: 08/29/13 14:30

Date Received: 09/04/13 09:05

Lab Sample ID: 490-34496-3
Matrix: Solid
Percent Solids: 85.9

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			104871	09/05/13 11:01	GLN	TAL NSH
Total/NA	Analysis	8260B		1	105150	09/06/13 14:01	ККК	TAL NSH
Total/NA	Prep	3550C			105553	09/09/13 07:20	LP	TAL NSH
Total/NA	Analysis	8270D		1	105537	09/09/13 21:42	KJP	TAL NSH
Total/NA	Analysis	Moisture		1	104823	09/05/13 09:40	RRS	TAL NSH

Laboratory References:

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

TestAmerica Job ID: 490-34496-1

Method	Method Description	Protocol	Laboratory
260B Volatile Organic Compounds (GC/MS)		SW846	TAL NSH
3270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
Moisture	Percent Moisture	EPA	TAL NSH

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Certification Summary

Client: Small Business Group Inc. Project/Site: Laurel Bay Site TestAmerica Job ID: 490-34496-1

11

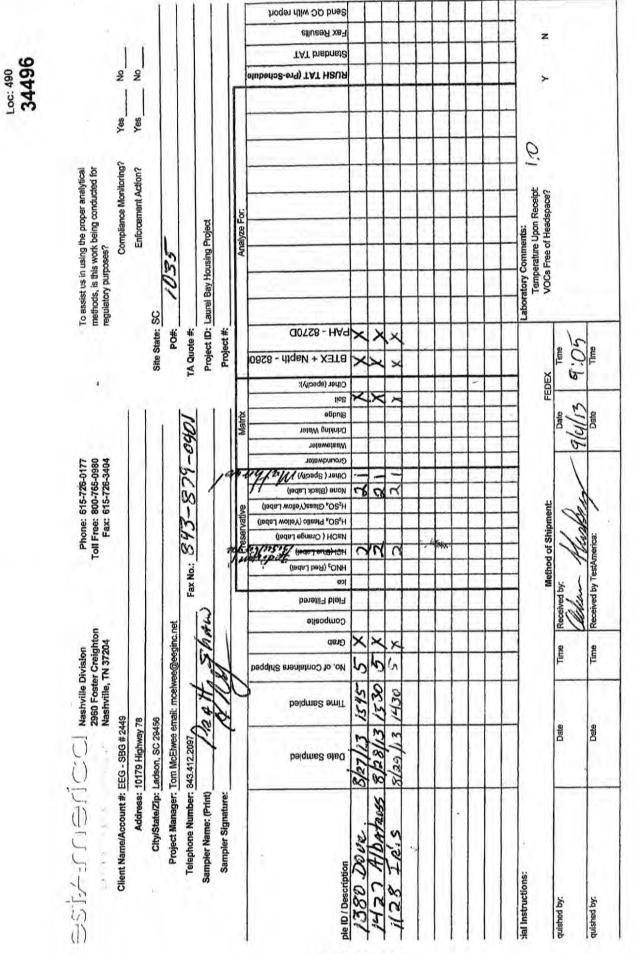
Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alaska (UST)	State Program	10	UST-087	07-24-14
Arizona	State Program	9	AZ0473	05-05-14
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
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Connecticut	State Program	1	PH-0220	12-31-13
lorida	NELAP	4	E87358	06-30-14
llinois	NELAP	5	200010	12-09-13
owa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	06-30-14
ouisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-14
Ainnesota	NELAP	5	047-999-345	12-31-13
lississippi	State Program	4	N/A	06-30-14
Nontana (UST)	State Program	8	NA	01-01-15
levada	State Program	9	TN00032	07-31-14
lew Hampshire	NELAP	1	2963	10-10-13
lew Jersey	NELAP	2	TN965	06-30-14
lew York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
lorth Dakota	State Program	8	R-146	06-30-14
Dhio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-14
Dregon	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
ennessee	State Program	4	2008	02-23-14
exas	NELAP	6	T104704077-09-TX	08-31-14
ISDA	Federal		S-48469	11-02-13
Jtah	NELAP	8	TN00032	07-31-14
lirginia	NELAP	3	460152	06-14-14
Vashington	State Program	10	C789	07-19-14
Vest Virginia DEP	State Program	3	219	02-28-14
Visconsin	State Program	5	998020430	08-31-14
Vyoming (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	COOLED DECEME TODAL					
Cooler Received/Opened On9/-	/4/2013 @ 0905	490-34496 Chain o				
. Tracking # 9565	(last 4 digits, FedEx)					
Courier:Fedex IR Gui	In ID18290455	×				
2. Temperature of rep. sample or	temp blank when opened: 1.D Degrees	s Celsius				
	less, was the representative sample or tem	p blank frozen? YES NO				
. Were custody seals on outside		YESNONA				
If yes, how many and where:	l front					
5. Were the seals intact, signed, a	and dated correctly?	TESNONA				
. Were custody papers inside cod	ooler?	ESNONA				
certify that I opened the cooler ar	nd answered questions 1-6 (intial)	SLA				
. Were custody seals on containe	ers: YES 🕅 a	nd Intact YESNO.				
Were these signed and dated co	orrectly?	YESNO.				
Packing mat'l used? Bubblewr	Plastic bag Peanuts Vermiculite Foa	am Insert Paper Other None				
	Ice lce-pack Ice (direct co	atest) Device Other News				
. Cooling process:	log log-pack log faireet co	ontact) Dry ice Other None				
	0	ESNONA				
0. Did all containers arrive in goo	0	-				
 Did all containers arrive in goo Were all container labels comp 	od condition (unbroken)? plete (#, date, signed, pres., etc)?	GESNONA				
 Did all containers arrive in good Were all container labels comp Did all container labels and tag 	od condition (unbroken)? plete (#, date, signed, pres., etc)?	VESNONA				
 Did all containers arrive in good Were all container labels comp Did all container labels and tag Were VOA vials received? 	od condition (unbroken)? plete (#, date, signed, pres., etc)?	(YESNONA (YESNONA (YESNONA				
 D. Did all containers arrive in good. Were all container labels composite the second seco	od condition (unbroken)? plete (#, date, signed, pres., etc)? gs agree with custody papers? eadspace present in any VOA vial?	(YESNONA (YESNONA (YESNONA (YESNONA				
 Did all containers arrive in good Were all container labels comp Did all container labels and tag Were VOA vials received? Was there any observable here Was there a Trip Blank in this of 	od condition (unbroken)? plete (#, date, signed, pres., etc)? gs agree with custody papers? eadspace present in any VOA vial?	YESNONA (YESNONA (YESNONA (YESNONA YESNONA				
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 Did all container labels and tag 3a. Were VOA vials received? b. Was there any observable here 4. Was there a Trip Blank in this of certify that I unloaded the cooler is 5a. On pres'd bottles, did pH test 	od condition (unbroken)? plete (#, date, signed, pres., etc)? gs agree with custody papers? eadspace present in any VOA vial? cooler? YES(NoNA If multiple of and answered questions 7-14 (intial)	YESNONA YESNONA <td< td=""></td<>				
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 Did all containers arrive in good. Were all container labels complete. Did all container labels and tag Did all container labels and tag Were VOA vials received? Was there any observable here Was there a Trip Blank in this of the content of th	od condition (unbroken)? plete (#, date, signed, pres., etc)? gs agree with custody papers? eadspace present in any VOA vial? cooler? YESNA If multiple of and answered questions 7-14 (intial) t strips suggest preservation reached the co e that the correct preservatives were used	Coolers, sequence # A J H orrect pH level? YESNONA YESNONA YESNONA YESNONA YESNONA YESNONA YESNONA				
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 Did all containers arrive in good. Were all container labels complete. Did all container labels and tag. Did all container labels and tag. Were VOA vials received? Was there any observable here. Was there a Trip Blank in this of certify that I unloaded the cooler is b. Did the bottle labels indicate Was residual chlorine present? Was residual chlorine present? Were custody papers properly Did you sign the custody paper 	od condition (unbroken)? plete (#, date, signed, pres., etc)? gs agree with custody papers? eadspace present in any VOA vial? cooler? YESNA If multiple of and answered questions 7-14 (intial) at strips suggest preservation reached the co to that the correct preservatives were used at the correct preservatives were used and pH as per SOP and answered question y filled out (ink, signed, etc)? ers in the appropriate place?	YESNONA				
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 Did all containers arrive in good Were all container labels comp Did all container labels and tag Did all container labels and tag Were VOA vials received? Was there any observable here Was there a Trip Blank in this of Certify that I unloaded the cooler at On pres'd bottles, did pH test Did the bottle labels indicate Was residual chlorine present? Were custody papers properly Did you sign the custody pape Was sufficient amount of samp 	od condition (unbroken)? plete (#, date, signed, pres., etc)? gs agree with custody papers? eadspace present in any VOA vial? cooler? YESNA If multiple of and answered questions 7-14 (intial) and answered questions 7-14 (intial) t strips suggest preservation reached the co e that the correct preservatives were used e that the correct preservatives were used e and pH as per SOP and answered question y filled out (ink, signed, etc)? ers in the appropriate place? for the analysis requested?	YESNONA				



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9/17/2013

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Login Sample Receipt Checklist

Client: Small Business Group Inc.

Login Number: 34496

List Number: 1 Creator: Huskey, Adam

Question	Answer	Comment	
Radioactivity wasn't checked or is = background as measured by a<br survey meter.	True		
The cooler's custody seal, if present, is intact.	True		
Sample custody seals, if present, are intact.	N/A		
The cooler or samples do not appear to have been compromised or tampered with.	True		
Samples were received on ice.	True		
Cooler Temperature is acceptable.	True		
Cooler Temperature is recorded.	True		
COC is present.	True		
COC is filled out in ink and legible.	True		
COC is filled out with all pertinent information.	True		
Is the Field Sampler's name present on COC?	True		
There are no discrepancies between the containers received and the COC.	True		
Samples are received within Holding Time.	True		
Sample containers have legible labels.	True		
Containers are not broken or leaking.	True		
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	N/A		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <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: 490-34496-1

List Source: TestAmerica Nashville

ATTACHMENT A

	NON-HAZ	ARDOUS	S MANI	FEST
NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1	7/6437
2 Constants de Mailline Addances				

V

	1						11	0.12	1	
3. Generator's Mailing Address: MCAS, BEAUFORT	Generator's Site Address (If different than mailing):			ailing):		st Number MNA	00310	6839	-	
LAUREL BAY HOUSING BEAUFORT, SC 29907						B. State G	ienerator's	s ID		
4. Generator's Phone 843-228-6461										
5. Transporter 1 Company Name	-	6. US EPA ID	Number							
Curalina Containers	1.1				C. State Tr	ransporter's ID)		-	
EEG, INC. D. S. BOX 1935 BASEd	174				D. Transpo	orter's Phone	843-	879-041	11	
7. Transporter 2 Company Name		8. US EPA ID	Number					122-13	50	
						ansporter's ID	10			
9. Designated Facility Name and Site Address	-	10. US EPA I	D Number		F. Transpo	orter's Phone				
HICKORY HILL LANDFILL		10. 05 EFA 1	Divumber		G. State Fa	acility ID				
2621 LOW COUNTRY ROAD							042 (987-464	12	
RIDGELAND, SC 29936					H. State F	acility Phone	043-	907-404	5	
MDdeland, Se 25550		1								
11. Description of Waste Materials				ontainers	13. Total	14. Unit	1. 1	Aisc. Comme	ents	
a. HEATING OIL TANKS FILLED WITH SAND			No.	Туре	Quantity	Wt./Vol.				
a. HEATING OIL TANKS FILLED WITH SAND			1	Jan	4.30	Tint	171	643	7	
WM Profile # 1026555	SC		-	ery	Tia	1010	11	W LU	1	
b.				-				-	-	
5.					1					
WM Profile #										
c.										
WM Profile #										
d.										
				1.200		_				
WM Profile #						1				
J. Additional Descriptions for Materials Listed Above			K. Dispos	al Location		1	4			
			1							
			Cell					Level		
an e chu ll'ar a constant dather date			Grid	INF	- /-	1.00	-10/1	to de		
15. Special Handling Instructions and Additional Inform	78 ND	Bokushite	25	13500	219 V	5 112	NYT.	a zer	1	
Purchase Order #	~~	EMERGENCY CON	TACT / PHO	ONE NO :	Contraction of the	200	140	20.1	· ·	
16. GENERATOR'S CERTIFICATE:										
10. GLNERATOR S CENTIFICATE:	not ha	vardous wastes as define	d by CER P	art 261 or a	ny applicable	state law ha	ve heen fu	llv and		
I hereby certify that the above-described materials are										
I hereby certify that the above-described materials are accurately described, classified and packaged and are i	in prope	er condition for transpor		rding to app	instance i oBei				Year	
and the second	in prope	er condition for transpor Signature "On behalt	tation acco	rding to app			Month	Day		
accurately described, classified and packaged and are i Printed Name	2	and the second se	tation acco	rding to app			Month	Day	13	
accurately described, classified and packaged and are i Printed Name 17. Transporter 1 Acknowledgement of Receipt of Mar	2	Signature "On behalt	tation acco	rding to app		_	5	3	13	
accurately described, classified and packaged and are i Printed Name	2	and the second se	tation acco	rding to app		~	Month		Year	
accurately described, classified and packaged and are in Printed Name 17. Transporter 1 Acknowledgement of Receipt of Mar Printed Name	terials	Signature "On behalt	tation acco	rding to app			5	3	Year 13	
accurately described, classified and packaged and are i Printed Name 17. Transporter 1 Acknowledgement of Receipt of Mar	terials	Signature "On behalt	tation acco	rding to app			5	3		
accurately described, classified and packaged and are in Printed Name 17. Transporter 1 Acknowledgement of Receipt of Mar Printed Name 18. Transporter 2 Acknowledgement of Receipt of Mar	terials	Signature "On behalt	tation acco	rding to app			Month	Day	13	
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accurately described, classified and packaged and are in Printed Name 17. Transporter 1 Acknowledgement of Receipt of Mar Printed Name 18. Transporter 2 Acknowledgement of Receipt of Mar Printed Name 19. Certificate of Final Treatment/Disposal	terials terials	Signature "On behalt Signature Signature	tation acco	T		is managed in	Month Month	Day Day Day	13 Year	
accurately described, classified and packaged and are in Printed Name 17. Transporter 1 Acknowledgement of Receipt of Mar Printed Name 18. Transporter 2 Acknowledgement of Receipt of Mar Printed Name	terials terials	Signature "On behalt Signature Signature o the best of my knowle	tation acco	T		s managed in	Month Month	Day Day Day	13 Year	
accurately described, classified and packaged and are in Printed Name 17. Transporter 1 Acknowledgement of Receipt of Mar Printed Name 18. Transporter 2 Acknowledgement of Receipt of Mar Printed Name 19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility	terials terials y, that to be dates	Signature "On behalt Signature Signature Signature o the best of my knowle listed above.	tation acco f of"	nove-describe		is managed in	Month Month	Day Day Day	13 Year	
accurately described, classified and packaged and are in Printed Name 17. Transporter 1 Acknowledgement of Receipt of Mar Printed Name 18. Transporter 2 Acknowledgement of Receipt of Mar Printed Name 19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility applicable laws, regulations, permits and licenses on the	terials terials y, that to be dates	Signature "On behalt Signature Signature Signature o the best of my knowle listed above.	tation acco f of"	nove-describe		is managed in	Month Month	Day Day Day	Vear	
accurately described, classified and packaged and are in Printed Name 17. Transporter 1 Acknowledgement of Receipt of Mar Printed Name 18. Transporter 2 Acknowledgement of Receipt of Mar Printed Name 19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility applicable laws, regulations, permits and licenses on the 20. Facility Owner or Operator: Certification of receipt	terials terials y, that to be dates t of non	Signature "On behalt Signature Signature Signature o the best of my knowle listed above. -hazardous materials co	tation acco f of"	nove-describe		is managed in	Month Month compliance	Day Day Day	Year	

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	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	