SUMMARY REPORT 207 ALBATROSS DRIVE (FORMERLY 1320 ALBATROSS DRIVE) LAUREL BAY MILITARY HOUSING AREA MARINE CORPS AIR STATION BEAUFORT BEAUFORT, SC

> Revision: 0 Prepared for:

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

and



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

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



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- 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 207 Albatross Drive (Formerly 1320 Albatross Drive). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

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



Summary Report 207 Albatross Drive (Formerly 1320 Albatross Drive) Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort June 2021

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 207 Albatross Drive (Formerly 1320 Albatross Drive). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1320 Albatross Drive* (MCAS Beaufort, 2013). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On October 10, 2012, a single 280 gallon heating oil UST was removed from the front porch area at 207 Albatross Drive (Formerly 1320 Albatross Drive). The UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 5'8" bgs and a single soil sample was collected from that depth. The sample was collected from the fill port side of the former UST to represent a worst case scenario.

Following UST removal, a soil sample was collected from the base of the excavation and shipped to an offsite laboratory for analysis of the petroleum COPCs. Sampling was performed in



accordance with applicable South Carolina regulation R.61-92, Part 280 (SCDHEC, 2017) and assessment guidelines.

2.2 Soil Analytical Results

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

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 207 Albatross Drive (Formerly 1320 Albatross Drive) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 207 Albatross Drive (Formerly 1320 Albatross Drive). This NFA determination was obtained in a letter dated May 15, 2014. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

- Marine Corps Air Station Beaufort, 2013. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 1320 Albatross Drive, Laurel Bay Military Housing Area, February 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 1Laboratory Analytical Results - Soil207 Albatross Drive (Formerly 1320 Albatross Drive)Laurel Bay Military Housing AreaMarine Corps Air Station BeaufortBeaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Sample Collected 10/10/12
Volatile Organic Compounds Analyzed	l 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 Ana	lyzed 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 2.0 (SCDHEC, April 2013).

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

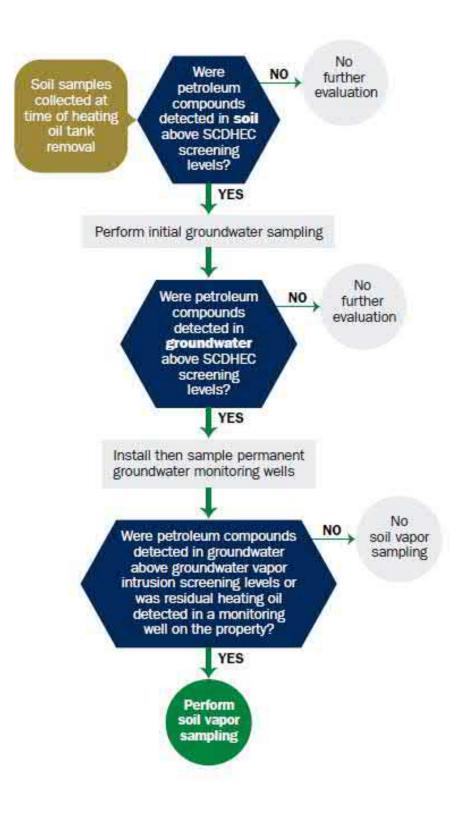
ND - not detected at the reporting limit (or method detection limit if shown on the laboratory report). The laboratory report is provided in Appendix B.

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



1001d 2123/13

Attachment 1

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

Date Received

ſ

State Use Only

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

I. OWNERSHIP OF UST (S)

MCAS Beaufort, Commanding Officer Attn: NREAO (Craig Ehde) Owner Name (Corporation, Individual, Public Agency, Other)								
Owner Warne (Corporati	Swher Name (Corporation, murvidual, 1 done Agency, Other)							
P.O. Box 55001								
Mailing Address								
Decufort	Couth Complian	20004 5001						
Beaufort,	South Carolina	29904-5001						
City	State	Zip Code						
843	228-7317	Craig Ehde						
Area Code	Telephone Number	Contact Person						
	Å							

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. # Laurel Bay Military Facility Name or Company Site	Housing Area, Identifier	Marine	Corps	Air	Station,	Beaufort,	SC
1320 Albatross Drive Street Address or State Road (a	· •	Militar	y Housi	ing A	irea		
Beaufort, City	Beaufort County						
	<u> </u>					1	

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

		Albatross
A.	Product(ex. Gas, Kerosene)	Heating oil
В.	Capacity(ex. 1k, 2k)	280 gal
C.	Age	Late 1950s
D.	Construction Material(ex. Steel, FRP)	Steel
E.	Month/Year of Last Use	Mid 80s
F.	Depth (ft.) To Base of Tank	5'8"
G.	Spill Prevention Equipment Y/N	No
H·	Overfill Prevention Equipment Y/N	No
I.	Method of Closure Removed/Filled	Removed
J _.	Date Tanks Removed/Filled	10/10/2012
K.	Visible Corrosion or Pitting Y/N	Yes
L.	Visible Holes Y/N	Yes

1320

M. Method of disposal for any USTs removed from the ground (attach disposal manifests) UST 1320Albatross 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 1320Albatross 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

		1320 Albatross
		Steel
A.	Construction Material(ex. Steel, FRP)	& Copper
B.	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
U.		
H.	Age	Late 1950s
I.	If any corrosion, pitting, or holes were observed, de	escribe 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	reside	ences a	are	const	ructed	l of	: sing]	le wal	ll stee	el
and	forme	erly	r con	tained	l fuel	oil	for	heatir	ıg.	These	USTs	were	
inst	alled	l in	n the	late	1950s	and	last	used	in	the mi	ld 198	30s.	

	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.		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.) 		х	
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: 		x	
 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

B.

Sample #	Location	Sample Type	Soil Type	Depth*	Date/Time of	Collected	OVA #
		(Soil/Water)	(Sand/Clay)	P ***	Collection	by	
1320 Albatros	Excav at fill end	Soil	Sandy	5'8"	10/10/12 1545 hrs	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

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

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

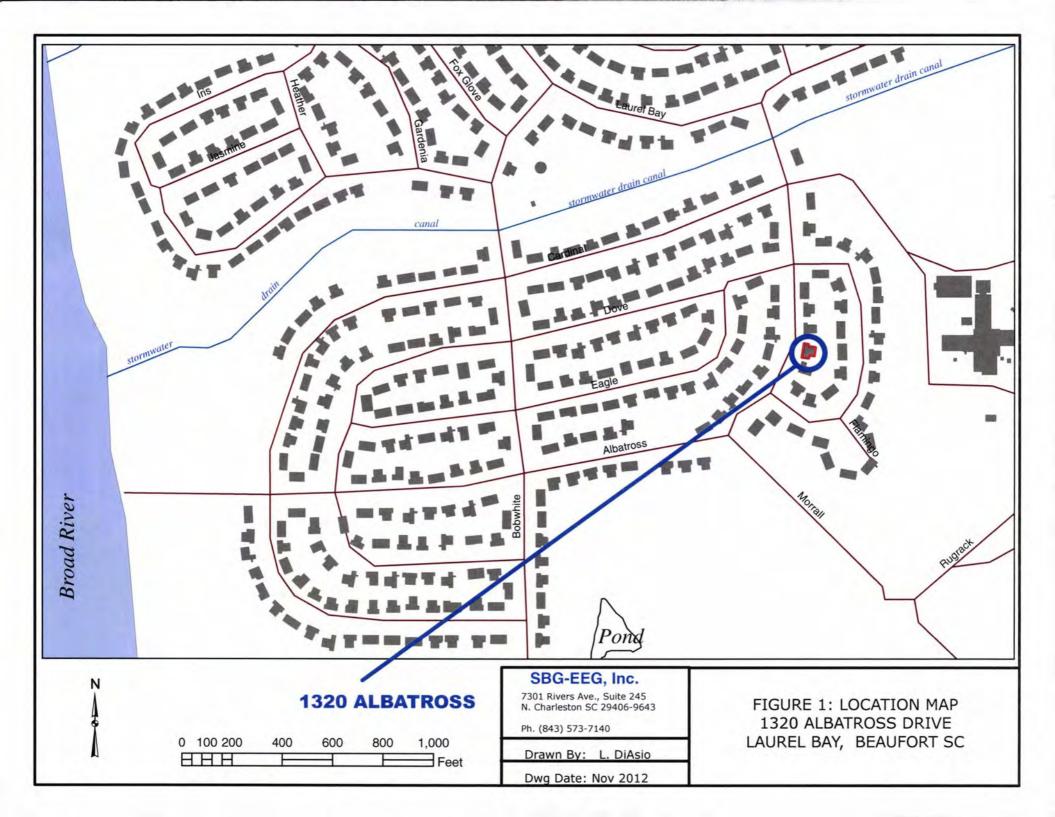
XII. RECEPTORS

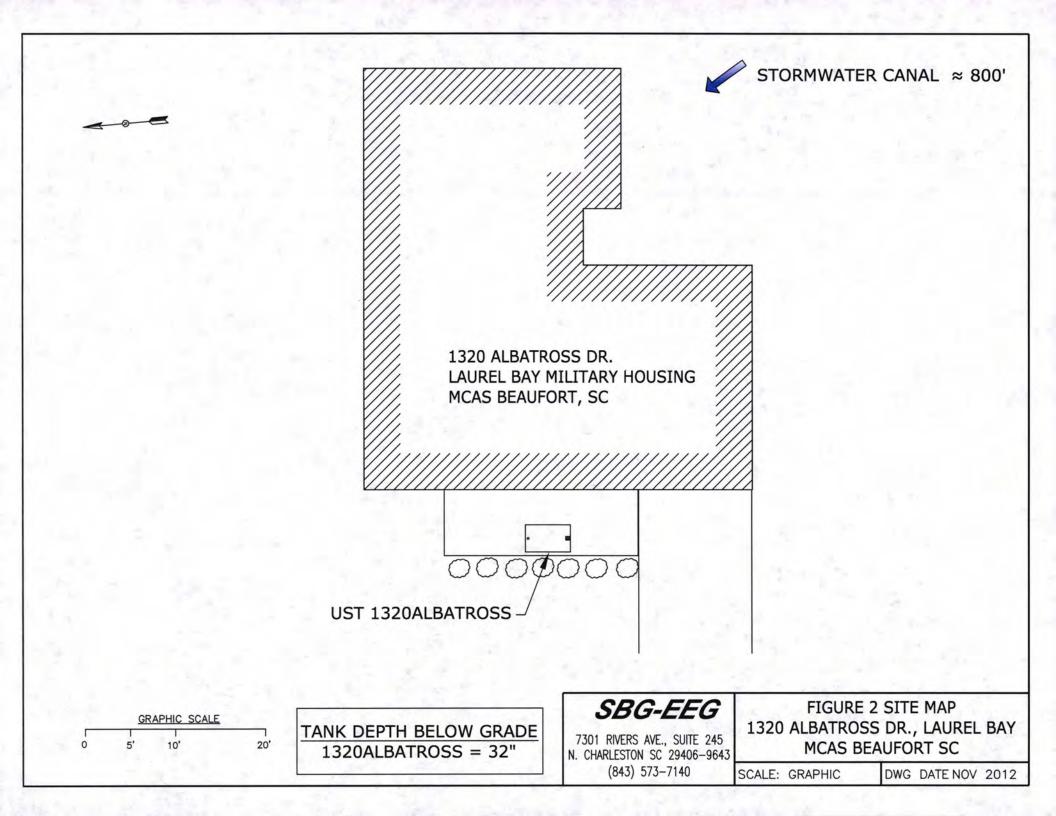
		Yes	No
Α.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?	*X	
	*stormwater draina	ge ca	nal
	If yes, indicate type of receptor, distance, and direction on site map.		
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the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

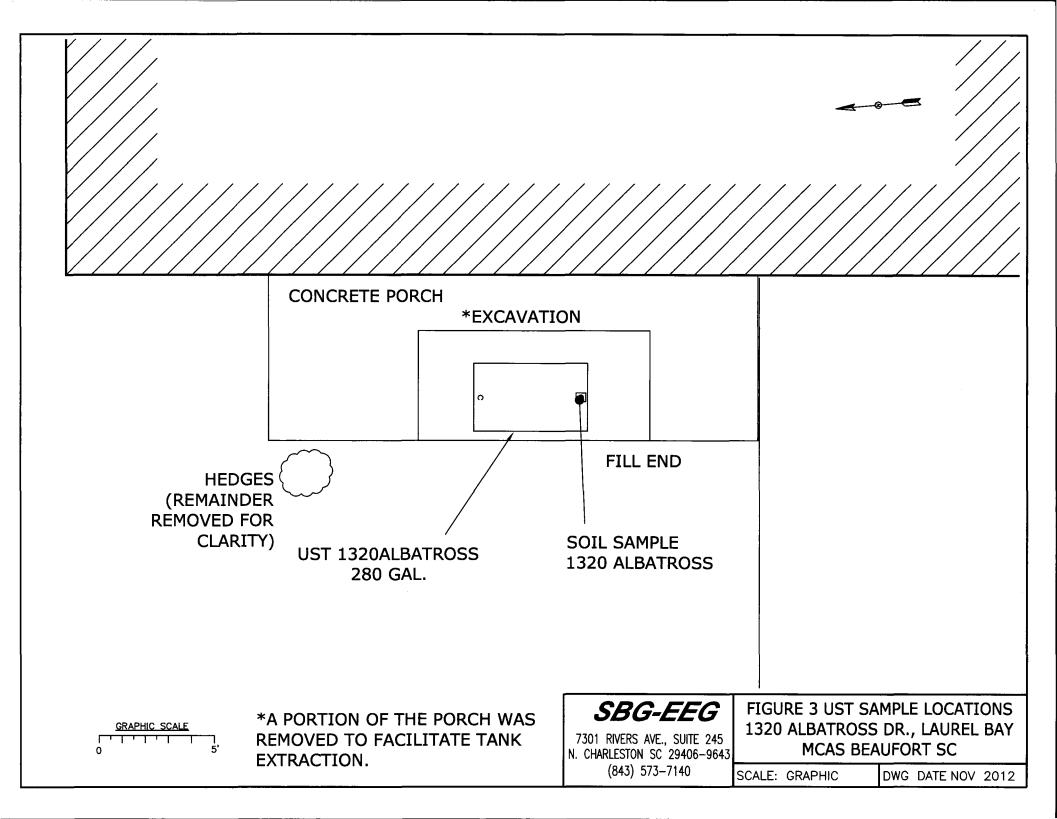
XIII. SITE MAP

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 1320Albatross.



Picture 2: UST 1320Albatross 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.

		<u></u>			 l	
CoC UST	1320Albatros	5				
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					
TPH (EPA 3550)						
			<u> </u>		 	
CoC						
Benzene						
Toluene						
Ethylbenzene						
Xylenes						
Naphthalene						
Benzo (a) anthracene						
Benzo (b) fluoranthene						
Benzo (k) fluoranthene						
Chrysene						
Dibenz (a, h) anthracene						
TPH (EPA 3550)						

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

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

XV. ANALYTICAL RESULTS

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

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

i -



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: 490-9196-1 Client Project/Site: Laurel Bay Housing

For:

Environmental Enterprise Group 10179 Highway 78 Ladson, South Carolina 29456

Attn: Mr. Tom McElwee

Kuth Hay

Authorized for release by: 10/30/2012 1:12:50 PM

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.

Review your project results through Total Access

LINKS



Visit us at: www.testamericainc.com Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing

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Sample Summary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing TestAmerica Job ID: 490-9196-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-9196-1	708 Bluebell	Solid	10/09/12 14:30	10/16/12 08:55
490-9196-2	1320 Albatross	Solid	10/10/12 15:45	10/16/12 08:55
490-9196-3	448 Elderberry	Solid	10/11/12 14:15	10/16/12 08:55

Job ID: 490-9196-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-9196-1

Comments

No additional comments.

Receipt

The samples were received on 10/16/2012 8:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

GC/MS VOA

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 29417 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

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.

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

Qualifiers

GC/MS VOA

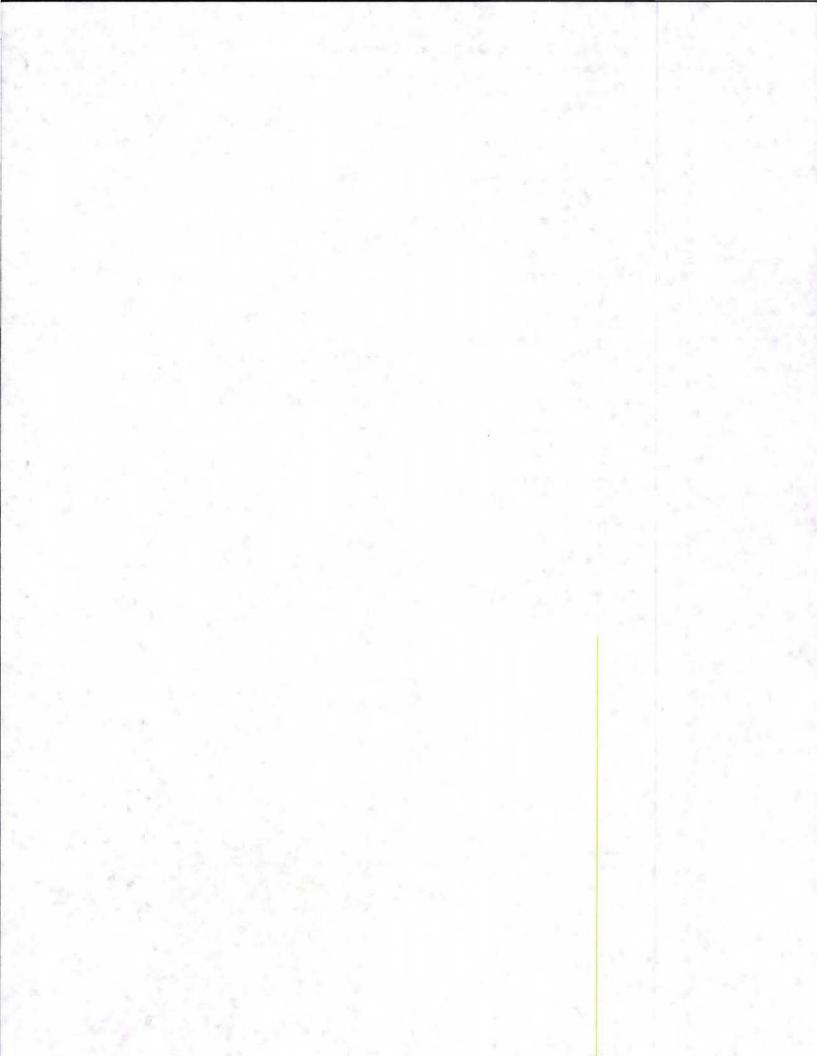
Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F	MS or MSD exceeds the control limits

GC/MS Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¢	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



TestAmerica Job ID: 490-9196-1

Lab Sample ID: 490-9196-1

Matrix: Solid

Percent Solids: 87.6

Client Sample ID: 708 Bluebell

Date Collected: 10/09/12 14:30 Date Received: 10/16/12 08:55

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00231	0.000773	mg/Kg	¢	10/16/12 15:29	10/18/12 21:00	1
Ethylbenzene	ND		0.00231	0.000773	mg/Kg	¢	10/16/12 15:29	10/18/12 21:00	1
Naphthalene	ND		0.00577	0.00196	mg/Kg	\$	10/16/12 15:29	10/18/12 21:00	1
Toluene	ND		0.00231	0.000853	mg/Kg	\$	10/16/12 15:29	10/18/12 21:00	1
Xylenes, Total	ND		0.00577	0.000773	mg/Kg	\$	10/16/12 15:29	10/18/12 21:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130				10/16/12 15:29	10/18/12 21:00	1
4-Bromofluorobenzene (Surr)	104		70 - 130				10/16/12 15:29	10/18/12 21:00	1
Dibromofluoromethane (Surr)	103		70 - 130				10/16/12 15:29	10/18/12 21:00	1
Toluene-d8 (Surr)	100		70 - 130				10/16/12 15:29	10/18/12 21:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0756	0.0113	mg/Kg	\$	10/17/12 08:50	10/18/12 21:54	1
Acenaphthylene	ND		0.0756	0.0102	mg/Kg	¢	10/17/12 08:50	10/18/12 21:54	1
Anthracene	ND		0.0756	0.0102	mg/Kg	¢	10/17/12 08:50	10/18/12 21:54	1
Benzo[a]anthracene	ND		0.0756	0.0169	mg/Kg	ø	10/17/12 08:50	10/18/12 21:54	1
Benzo[a]pyrene	ND		0.0756	0.0135	mg/Kg	\$	10/17/12 08:50	10/18/12 21:54	1
Benzo[b]fluoranthene	ND		0.0756	0.0135	mg/Kg	\$	10/17/12 08:50	10/18/12 21:54	1
Benzo[g,h,i]perylene	ND		0.0756	0.0102	mg/Kg	0	10/17/12 08:50	10/18/12 21:54	1
Benzo[k]fluoranthene	ND		0.0756	0.0158	mg/Kg	\$	10/17/12 08:50	10/18/12 21:54	1
1-Methylnaphthalene	ND		0.0756	0.0158	mg/Kg	\$	10/17/12 08:50	10/18/12 21:54	1
Pyrene	ND		0.0756	0.0135	mg/Kg	\$	10/17/12 08:50	10/18/12 21:54	1
Phenanthrene	ND		0.0756	0.0102	mg/Kg	\$	10/17/12 08:50	10/18/12 21:54	1
Chrysene	ND		0.0756	0.0102	mg/Kg	\$	10/17/12 08:50	10/18/12 21:54	1
Dibenz(a,h)anthracene	ND		0.0756	0.00790	mg/Kg	ø	10/17/12 08:50	10/18/12 21:54	1
Fluoranthene	ND		0.0756	0.0102	mg/Kg	\$	10/17/12 08:50	10/18/12 21:54	1
Fluorene	ND		0.0756	0.0135	mg/Kg	\$	10/17/12 08:50	10/18/12 21:54	1
Indeno[1,2,3-cd]pyrene	ND		0.0756	0.0113	mg/Kg	\$	10/17/12 08:50	10/18/12 21:54	1
Naphthalene	ND		0.0756	0.0102	mg/Kg	¢	10/17/12 08:50	10/18/12 21:54	1
2-Methylnaphthalene	ND		0.0756	0.0180	mg/Kg	¢	10/17/12 08:50	10/18/12 21:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	61		29 - 120				10/17/12 08:50	10/18/12 21:54	1
Terphenyl-d14 (Surr)	87		13 - 120				10/17/12 08:50	10/18/12 21:54	1
Nitrobenzene-d5 (Surr)	65		27 - 120				10/17/12 08:50	10/18/12 21:54	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88		0.10	0.10	%			10/16/12 15:51	1

Client Sample ID: 1320 Albatross

Date Collected: 10/10/12 15:45 Date Received: 10/16/12 08:55

Lab Sample ID: 490-9196-2 Matrix: Solid

Percent Solids: 75.8

1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00277	0.000927	mg/Kg	\$	10/16/12 15:29	10/18/12 21:31	1
Ethylbenzene	ND		0.00277	0.000927	mg/Kg	\$	10/16/12 15:29	10/18/12 21:31	1
Naphthalene	ND		0.00692	0.00235	mg/Kg	\$	10/16/12 15:29	10/18/12 21:31	1
Toluene	ND		0.00277	0.00102	mg/Kg	\$	10/16/12 15:29	10/18/12 21:31	1
Xylenes, Total	ND		0.00692	0.000927	mg/Kg	¢	10/16/12 15:29	10/18/12 21:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 130				10/16/12 15:29	10/18/12 21:31	1
4-Bromofluorobenzene (Surr)	103		70 - 130				10/16/12 15:29	10/18/12 21:31	1
Dibromofluoromethane (Surr)	102		70 - 130				10/16/12 15:29	10/18/12 21:31	1
Toluene-d8 (Surr)	98		70 - 130				10/16/12 15:29	10/18/12 21:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0867	0.0129	mg/Kg	\$	10/17/12 08:50	10/18/12 22:14	1
Acenaphthylene	ND		0.0867	0.0117	mg/Kg	\$	10/17/12 08:50	10/18/12 22:14	1
Anthracene	ND		0.0867	0.0117	mg/Kg	¢	10/17/12 08:50	10/18/12 22:14	1
Benzo[a]anthracene	ND		0.0867	0.0194	mg/Kg	\$	10/17/12 08:50	10/18/12 22:14	1
Benzo[a]pyrene	ND		0.0867	0.0155	mg/Kg	\$	10/17/12 08:50	10/18/12 22:14	1
Benzo[b]fluoranthene	ND		0.0867	0.0155	mg/Kg	\$	10/17/12 08:50	10/18/12 22:14	1
Benzo[g,h,i]perylene	ND		0.0867	0.0117	mg/Kg	\$	10/17/12 08:50	10/18/12 22:14	1
Benzo[k]fluoranthene	ND		0.0867	0.0181	mg/Kg	\$	10/17/12 08:50	10/18/12 22:14	1
1-Methylnaphthalene	ND		0.0867	0.0181	mg/Kg	\$	10/17/12 08:50	10/18/12 22:14	1
Pyrene	ND		0.0867	0.0155	mg/Kg	\$	10/17/12 08:50	10/18/12 22:14	1
Phenanthrene	ND		0.0867	0.0117	mg/Kg	\$	10/17/12 08:50	10/18/12 22:14	1
Chrysene	ND		0.0867	0.0117	mg/Kg	\$	10/17/12 08:50	10/18/12 22:14	1
Dibenz(a,h)anthracene	ND		0.0867	0.00906	mg/Kg	\$	10/17/12 08:50	10/18/12 22:14	1
Fluoranthene	ND		0.0867	0.0117	mg/Kg	\$	10/17/12 08:50	10/18/12 22:14	1
Fluorene	ND		0.0867	0.0155	mg/Kg	\$	10/17/12 08:50	10/18/12 22:14	1
Indeno[1,2,3-cd]pyrene	ND		0.0867	0.0129	mg/Kg	\$	10/17/12 08:50	10/18/12 22:14	1
Naphthalene	ND		0.0867	0.0117	mg/Kg	\$	10/17/12 08:50	10/18/12 22:14	1
2-Methylnaphthalene	ND		0.0867	0.0207	mg/Kg	\$	10/17/12 08:50	10/18/12 22:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	56		29 - 120				10/17/12 08:50	10/18/12 22:14	1
Terphenyl-d14 (Surr)	81		13 - 120				10/17/12 08:50	10/18/12 22:14	1
Nitrobenzene-d5 (Surr)	56		27 - 120				10/17/12 08:50	10/18/12 22:14	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	76		0.10	0.10	%			10/16/12 15:51	1

Client Sample ID: 448 Elderberry

Date Collected: 10/11/12 14:15 Date Received: 10/16/12 08:55

Nitrobenzene-d5 (Surr)

Lab Sample ID: 490-9196-3 Matrix: Solid

Percent Solids: 85.3

Method: 8260B - Volatile Orga Analyte		(GC/MS) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.135	0.0460		ø	10/16/12 15:24	10/19/12 00:06	1
Ethylbenzene	1.37		0.135	0.0460	mg/Kg	¢	10/16/12 15:24	10/19/12 00:06	1
Naphthalene	12.8		0.338		mg/Kg	æ	10/16/12 15:24	10/19/12 14:21	1
Toluene	ND		0.135	0.0501	mg/Kg	¢	10/16/12 15:24	10/19/12 00:06	1
Xylenes, Total	4.51		0.338	0.0460	mg/Kg	¢	10/16/12 15:24	10/19/12 00:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130				10/16/12 15:24	10/19/12 00:06	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130				10/16/12 15:24	10/19/12 14:21	1
4-Bromofluorobenzene (Surr)	98		70 - 130				10/16/12 15:24	10/19/12 00:06	1
4-Bromofluorobenzene (Surr)	92		70 - 130				10/16/12 15:24	10/19/12 14:21	1
Dibromofluoromethane (Surr)	94		70 - 130				10/16/12 15:24	10/19/12 00:06	1
Dibromofluoromethane (Surr)	96		70 - 130				10/16/12 15:24	10/19/12 14:21	1
Toluene-d8 (Surr)	100		70 - 130				10/16/12 15:24	10/19/12 00:06	1
Toluene-d8 (Surr)	98		70 - 130				10/16/12 15:24	10/19/12 14:21	1
Method: 8270D - Semivolatile	Organic Compou	nds (GC/MS	5)						
Analyte	and the second se	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.08		0.0782	0.0117	mg/Kg	¢	10/17/12 08:50	10/18/12 22:35	1
Acenaphthylene	0.373		0.0782	0.0105	mg/Kg	¢	10/17/12 08:50	10/18/12 22:35	1
Anthracene	0.266		0.0782	0.0105	mg/Kg	\$	10/17/12 08:50	10/18/12 22:35	1
Benzo[a]anthracene	0.322		0.0782	0.0175	mg/Kg	\$	10/17/12 08:50	10/18/12 22:35	1
Benzo[a]pyrene	0.267		0.0782	0.0140	mg/Kg	\$	10/17/12 08:50	10/18/12 22:35	1
Benzo[b]fluoranthene	0.343		0.0782	0.0140	mg/Kg	ø	10/17/12 08:50	10/18/12 22:35	1
Benzo[g,h,i]perylene	0.111		0.0782	0.0105	mg/Kg	¢	10/17/12 08:50	10/18/12 22:35	1
Benzo[k]fluoranthene	0.158		0.0782	0.0163	mg/Kg	¢	10/17/12 08:50	10/18/12 22:35	1
1-Methylnaphthalene	13.3		0.782	0.163	mg/Kg	\$	10/17/12 08:50	10/19/12 16:25	10
Pyrene	1.03		0.0782	0.0140	mg/Kg	¢	10/17/12 08:50	10/18/12 22:35	1
Phenanthrene	2.98		0.0782	0.0105	mg/Kg	ø	10/17/12 08:50	10/18/12 22:35	1
Chrysene	0.498		0.0782	0.0105	mg/Kg	¢	10/17/12 08:50	10/18/12 22:35	1
Dibenz(a,h)anthracene	0.0399	J	0.0782	0.00817	mg/Kg	\$	10/17/12 08:50	10/18/12 22:35	1
Fluoranthene	0.330		0.0782	0.0105	mg/Kg	0	10/17/12 08:50	10/18/12 22:35	1
Fluorene	1.48		0.0782	0.0140	mg/Kg	ø	10/17/12 08:50	10/18/12 22:35	1
Indeno[1,2,3-cd]pyrene	0.110		0.0782	0.0117	mg/Kg	ø	10/17/12 08:50	10/18/12 22:35	1
Naphthalene	2.19		0.0782	0.0105		ø	10/17/12 08:50	10/18/12 22:35	1
2-Methylnaphthalene	21.9		0.782		mg/Kg	ø	10/17/12 08:50	10/19/12 16:25	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
curreguis	/uncourcey								
2-Fluorobiphenyl (Surr)	61	1.000	29 - 120				10/17/12 08:50	10/18/12 22:35	1

Concern Chamister									
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85		0.10	0.10	%			10/16/12 15:51	1

27 - 120

60

10/18/12 22:35

10/17/12 08:50

Client Sample ID: Method Blank

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

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

Lab Sample ID: MB 490-29114/7 Matrix: Solid Analysis Batch: 29114

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.100	0.0335	mg/Kg			10/18/12 15:33	1
Ethylbenzene	ND		0.100	0.0335	mg/Kg			10/18/12 15:33	1
Naphthalene	ND		0.250	0.0850	mg/Kg			10/18/12 15:33	1
Toluene	ND		0.100	0.0370	mg/Kg			10/18/12 15:33	1
Xylenes, Total	ND		0.250	0.0335	mg/Kg			10/18/12 15:33	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 130					10/18/12 15:33	1
4-Bromofluorobenzene (Surr)	104		70 - 130					10/18/12 15:33	1
Dibromofluoromethane (Surr)	98		70 - 130					10/18/12 15:33	1
Toluene-d8 (Surr)	99		70 - 130					10/18/12 15:33	1

Lab Sample ID: MB 490-29114/8 Matrix: Solid Analysis Batch: 29114

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			10/18/12 16:04	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			10/18/12 16:04	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			10/18/12 16:04	1
Toluene	ND		0.00200	0.000740	mg/Kg			10/18/12 16:04	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			10/18/12 16:04	1
		MD							

		me				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		10/18/12 16:04	1
4-Bromofluorobenzene (Surr)	108		70 - 130		10/18/12 16:04	1
Dibromofluoromethane (Surr)	101		70 - 130		10/18/12 16:04	1
Toluene-d8 (Surr)	100		70 - 130		10/18/12 16:04	1

Lab Sample ID: LCS 490-29114/3 Matrix: Solid

Analysis Batch: 29114

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

100

98

104

			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene			0.0500	0.05578		mg/Kg		112	75 - 127	
Ethylbenzene			0.0500	0.05079		mg/Kg		102	80 - 134	
Naphthalene			0.0500	0.05172		mg/Kg		103	69 - 150	
Toluene			0.0500	0.05666		mg/Kg		113	80 - 132	
Xylenes, Total			0.150	0.1513		mg/Kg		101	80 - 137	
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1.2-Dichloroethane-d4 (Surr)	99		70 - 130							

70 - 130

70 - 130

70 - 130

TestAmerica Nashville 10/30/2012
10/30/2012

Client Sample ID: Matrix Spike

Prep Type: Total/NA

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

Lab Sample ID: LCSD 490-29114/4 Matrix: Solid

Analysia Databy 20114

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

Analysis Batch: 29114		Spike	LCSD	LCSD				%Rec.	~	RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene		0.0500	0.05550		mg/Kg		111	75 - 127	1	50
Ethylbenzene		0.0500	0.04971		mg/Kg		99	80 - 134	2	50
Naphthalene		0.0500	0.05529		mg/Kg		111	69 - 150	7	50
Toluene		0.0500	0.05598		mg/Kg		112	80 - 132	1	50
Xylenes, Total		0.150	0.1486		mg/Kg		99	80 - 137	2	50
	LCSD LCSD									

	LUSD	LUSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	93		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: 490-9335-F-2-D MS Matrix: Solid Analysis Batch: 29114

Analysis Batch: 29114									Prep Batc	h: 29284
a second second second	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		0.0500	0.04077		mg/Kg		82	31 - 143	
Ethylbenzene	ND		0.0500	0.02895		mg/Kg		58	23 - 161	
Naphthalene	ND		0.0500	0.02234		mg/Kg		45	10 - 176	
Toluene	ND		0.0500	0.03706		mg/Kg		74	30 - 155	
Xylenes, Total	ND		0.150	0.08336		mg/Kg		56	25 - 162	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: 490-9335-F-2-E MSD Matrix: Solid

Prep Batch: 29284 Analysis Batch: 29114 Sample Sample Spike MSD MSD %Rec. RPD RPD Limit **Result** Qualifier Added **Result Qualifier** Unit D %Rec Limits Analyte ND 0.0464 0.03604 mg/Kg 78 31 - 143 12 50 Benzene ND 0.0464 0.02511 mg/Kg 54 23 - 161 14 50 Ethylbenzene Naphthalene ND 0.0464 0.01393 mg/Kg 30 10 - 176 46 50 ND 0.0464 0.03200 mg/Kg 69 30 - 155 15 50 Toluene ND 0.139 0.07063 mg/Kg 51 25 - 162 17 50 Xylenes, Total MSD MSD Surrogate %Recovery Qualifier Limits 30 1,2-D

1,2-Dichloroethane-d4 (Surr)	101	70 - 130
4-Bromofluorobenzene (Surr)	98	70 - 130
Dibromofluoromethane (Surr)	97	70 - 130
Toluene-d8 (Surr)	99	70 - 130

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

Client Sample ID: Method Blank

Prep Type: Total/NA

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

Lab Sample ID: MB 490-29417/6 Matrix: Solid Analysis Batch: 29417

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.100	0.0340	mg/Kg			10/19/12 13:19	1
Ethylbenzene	ND		0.100	0.0340	mg/Kg			10/19/12 13:19	1
Naphthalene	ND		0.250	0.0850	mg/Kg			10/19/12 13:19	1
Toluene	ND		0.100	0.0370	mg/Kg			10/19/12 13:19	1
Xylenes, Total	ND		0.250	0.0340	mg/Kg			10/19/12 13:19	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 130					10/19/12 13:19	1
4-Bromofluorobenzene (Surr)	100		70 - 130					10/19/12 13:19	1
Dibromofluoromethane (Surr)	100		70 - 130					10/19/12 13:19	1
Toluene-d8 (Surr)	98		70 - 130					10/19/12 13:19	1

Lab Sample ID: LCS 490-29417/3 Matrix: Solid Analysis Batch: 29417

	Spike	LCS LCS			%Rec.	
Analyte	Added	Result Qualifier	Unit	D %Rec	Limits	
Benzene	0.0500	0.04863	mg/Kg	97	75 - 127	
Ethylbenzene	0.0500	0.04623	mg/Kg	92	80 - 134	
Naphthalene	0.0500	0.05062	mg/Kg	101	69 - 150	
Toluene	0.0500	0.04986	mg/Kg	100	80 - 132	
Xylenes, Total	0.150	0.1376	mg/Kg	92	80 - 137	
	wells were					

LUS	LUS	
%Recovery	Qualifier	Limits
97		70 - 130
96		70 - 130
97		70 - 130
98		70 - 130
	%Recovery 97 96 97	96 97

Lab Sample ID: LCSD 490-29417/4 Matrix: Solid

Analysis Batch: 29417

Analysis Daten. 25417			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.0500	0.05026		mg/Kg		101	75 - 127	3	50
Ethylbenzene			0.0500	0.04735		mg/Kg		95	80 - 134	2	50
Naphthalene			0.0500	0.05036		mg/Kg		101	69 - 150	1	50
Toluene			0.0500	0.05251		mg/Kg		105	80 - 132	5	50
Xylenes, Total			0.150	0.1414		mg/Kg		94	80 - 137	3	50
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								

1,2-Dichloroethane-d4 (Surr)	94	70 - 130
4-Bromofluorobenzene (Surr)	96	70 - 130
Dibromofluoromethane (Surr)	97	70 - 130
Toluene-d8 (Surr)	100	70 - 130

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

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

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

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

Lab Sample ID: 490-9437-A- Matrix: Solid Analysis Batch: 29417	12-D MS							Client	Sample ID: Matrix Spike Prep Type: Total/NA Prep Batch: 29483
	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.397		0.0500	0.3142	E 4	mg/Kg		-166	31 - 143
Ethylbenzene	0.255		0.0500	0.1929	4	mg/Kg		-125	23 - 161
Naphthalene	0.180		0.0500	0.1633	F	mg/Kg		-34	10 - 176
Toluene	0.959		0.0500	0.7672	E 4	mg/Kg		-385	30 - 155
Xylenes, Total	1.06		0.150	0.8216	4	mg/Kg		-158	25 - 162
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	94		70 - 130						
4-Bromofluorobenzene (Surr)	94		70 - 130						
Dibromofluoromethane (Surr)	97		70 - 130						
Toluene-d8 (Surr)	99		70 - 130						

Lab Sample ID: 490-9437-A-12-E MSD Matrix: Solid Analysis Batch: 29417

Analysis Batch: 29417									Pren	Batch:	29483
rinarjoio Batoin 20111	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.397		0.0461	0.2459	E 4	mg/Kg		-328	31 - 143	24	50
Ethylbenzene	0.255		0.0461	0.1736	4	mg/Kg		-177	23 - 161	11	50
Naphthalene	0.180		0.0461	0.1673	F	mg/Kg		-28	10 - 176	2	50
Toluene	0.959		0.0461	0.6573	E 4	mg/Kg		-655	30 - 155	15	50
Xylenes, Total	1.06		0.138	0.7512	4	mg/Kg		-222	25 - 162	9	50
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	94		70 - 130								
4-Bromofluorobenzene (Surr)	97		70 - 130								
Dibromofluoromethane (Surr)	96		70 - 130								

70 - 130

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

100

Lab Sample ID: MB 490-28688/1-A Matrix: Solid Analysis Batch: 29023

Toluene-d8 (Surr)

Analysis Batch: 29023							Prep Batch	1: 28688
Analyte	MB Result	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	0.0670	0.0100	mg/Kg	-	10/17/12 08:50	10/18/12 13:19	1
Acenaphthylene	ND	0.0670	0.00900	mg/Kg		10/17/12 08:50	10/18/12 13:19	1
Anthracene	ND	0.0670	0.00900	mg/Kg		10/17/12 08:50	10/18/12 13:19	1
Benzo[a]anthracene	ND	0.0670	0.0150	mg/Kg		10/17/12 08:50	10/18/12 13:19	1
Benzo[a]pyrene	ND	0.0670	0.0120	mg/Kg		10/17/12 08:50	10/18/12 13:19	1
Benzo[b]fluoranthene	ND	0.0670	0.0120	mg/Kg		10/17/12 08:50	10/18/12 13:19	1
Benzo[g,h,i]perylene	ND	0.0670	0.00900	mg/Kg		10/17/12 08:50	10/18/12 13:19	1
Benzo[k]fluoranthene	ND	0.0670	0.0140	mg/Kg		10/17/12 08:50	10/18/12 13:19	1
1-Methylnaphthalene	ND	0.0670	0.0140	mg/Kg		10/17/12 08:50	10/18/12 13:19	1
Pyrene	ND	0.0670	0.0120	mg/Kg		10/17/12 08:50	10/18/12 13:19	1
Phenanthrene	ND	0.0670	0.00900	mg/Kg		10/17/12 08:50	10/18/12 13:19	1
Chrysene	ND	0.0670	0.00900	mg/Kg		10/17/12 08:50	10/18/12 13:19	1
Dibenz(a,h)anthracene	ND	0.0670	0.00700	mg/Kg		10/17/12 08:50	10/18/12 13:19	1

TestAmerica Nashville 10/30/2012

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

Lab Sample ID: MB 490-28688/1-A Matrix: Solid							Client Sa	mple ID: Metho Prep Type: T	otal/NA
Analysis Batch: 29023	МВ	мв						Prep Batch	1: 28688
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.0670	0.00900	mg/Kg		10/17/12 08:50	10/18/12 13:19	1
Fluorene	ND		0.0670	0.0120	mg/Kg		10/17/12 08:50	10/18/12 13:19	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		10/17/12 08:50	10/18/12 13:19	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		10/17/12 08:50	10/18/12 13:19	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		10/17/12 08:50	10/18/12 13:19	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	58		29 - 120				10/17/12 08:50	10/18/12 13:19	1
Terphenyl-d14 (Surr)	77		13 - 120				10/17/12 08:50	10/18/12 13:19	1
Nitrobenzene-d5 (Surr)	56		27 - 120				10/17/12 08:50	10/18/12 13:19	1

Lab Sample ID: LCS 490-28688/2-A Matrix: Solid

Analysis Batch: 29023

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

Prep Batch: 28688

Analysis Batch: 29025	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.67	1.288		mg/Kg		77	38 - 120
Anthracene	1.67	1.337		mg/Kg		80	46 - 124
Benzo[a]anthracene	1.67	1.384		mg/Kg		83	45 - 120
Benzo[a]pyrene	1.67	1.440		mg/Kg		86	45 - 120
Benzo[b]fluoranthene	1.67	1.358		mg/Kg		82	42 - 120
Benzo[g,h,i]perylene	1.67	1.279		mg/Kg		77	38 - 120
Benzo[k]fluoranthene	1.67	1.441		mg/Kg		86	42 - 120
1-Methylnaphthalene	1.67	1.203		mg/Kg		72	32 - 120
Pyrene	1.67	1.301		mg/Kg		78	43 - 120
Phenanthrene	1.67	1.336		mg/Kg		80	45 - 120
Chrysene	1.67	1.357		mg/Kg		81	43 - 120
Dibenz(a,h)anthracene	1.67	1.165		mg/Kg		70	32 - 128
Fluoranthene	1.67	1.364		mg/Kg		82	46 - 120
Fluorene	1.67	1.341		mg/Kg		80	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.273		mg/Kg		76	41 - 121
Naphthalene	1.67	1.330		mg/Kg		80	32 - 120
2-Methylnaphthalene	1.67	1.233		mg/Kg		74	28 - 120

	LUS	LUS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	57		29 - 120
Terphenyl-d14 (Surr)	75		13 - 120
Nitrobenzene-d5 (Surr)	58		27 - 120

Lab Sample ID: LCSD 490-28688/13-A Matrix: Solid

Analysis Batch: 29023								Batch:	
and the second second	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	1.67	1.395		mg/Kg		84	38 - 120	8	50
Anthracene	1.67	1.397		mg/Kg		84	46 - 124	4	49
Benzo[a]anthracene	1.67	1.419		mg/Kg		85	45 - 120	3	50
Benzo[a]pyrene	1.67	1.508		mg/Kg		91	45 - 120	5	50
Benzo[b]fluoranthene	1.67	1.421		mg/Kg		85	42 - 120	4	50

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 28688

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

Lab Sa Matrix: Analys

Lab Sample ID: LCSD 490-28688/13-A				Clien	t Sam	ple ID:	Lab Contro	I Sampl	e Dup
Matrix: Solid							Prep T	ype: Tot	tal/NA
Analysis Batch: 29023							Prep	Batch:	28688
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzo[g,h,i]perylene	1.67	1.375	1	mg/Kg		82	38 - 120	7	50
Benzo[k]fluoranthene	1.67	1.534		mg/Kg		92	42 - 120	6	45
1-Methylnaphthalene	1.67	1.332	1	mg/Kg		80	32 - 120	10	50
Pyrene	1.67	1.377	,	mg/Kg		83	43 - 120	6	50
Phenanthrene	1.67	1.374	,	mg/Kg		82	45 - 120	3	50
Chrysene	1.67	1.390	,	mg/Kg		83	43 - 120	2	49
Dibenz(a,h)anthracene	1.67	1.255		mg/Kg		75	32 - 128	7	50
Fluoranthene	1.67	1.458	1	mg/Kg		87	46 - 120	7	50
Fluorene	1.67	1.473		mg/Kg		88	42 - 120	9	50
Indeno[1,2,3-cd]pyrene	1.67	1.336		mg/Kg		80	41 - 121	5	50
Naphthalene	1.67	1.419	1	mg/Kg		85	32 - 120	6	50
2-Methylnaphthalene	1.67	1.321	1	mg/Kg		79	28 - 120	7	50
1000 1001									

LUSD	LUSD	
%Recovery	Qualifier	Limits
62		29 - 120
77		13 - 120
64		27 - 120
	%Recovery 62 77	77

Lab Sample ID: 490-9205-H-1-B MS Matrix: Solid

Analysis Batch: 29023

Analysis Daton. 20020									riep Daten. 20000
	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	ND		1.78	1.329		mg/Kg	¢	75	25 - 120
Anthracene	ND		1.78	1.330		mg/Kg	\$	75	28 - 125
Benzo[a]anthracene	ND		1.78	1.350		mg/Kg	\$	76	23 - 120
Benzo[a]pyrene	ND		1.78	1.418		mg/Kg	\$	80	15 - 128
Benzo[b]fluoranthene	ND		1.78	1.400		mg/Kg	¢	79	12 - 133
Benzo[g,h,i]perylene	ND		1.78	1.153		mg/Kg	¢	65	22 - 120
Benzo[k]fluoranthene	ND		1.78	1.479		mg/Kg	\$	83	28 - 120
1-Methylnaphthalene	0.232		1.78	1.600		mg/Kg	\$	77	10 - 120
Pyrene	ND		1.78	1.457		mg/Kg	\$	82	20 - 123
Phenanthrene	ND		1.78	1.350		mg/Kg	ø	76	21 - 122
Chrysene	ND		1.78	1.291		mg/Kg	\$	72	20 - 120
Dibenz(a,h)anthracene	ND		1.78	1.030		mg/Kg	¢	58	12 - 128
Fluoranthene	ND		1.78	1.422		mg/Kg	۵	80	10 - 143
Fluorene	ND		1.78	1.429		mg/Kg	\$	80	20 - 120
Indeno[1,2,3-cd]pyrene	ND		1.78	1.142		mg/Kg	\$	64	22 - 121
Naphthalene	0.0709	J	1.78	1.520		mg/Kg	\$	81	10 - 120
2-Methylnaphthalene	0.349		1.78	1.808		mg/Kg	\$	82	13 - 120
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						

Sunogate	/artecovery	Quanner	Linino
2-Fluorobiphenyl (Surr)	56		29 - 120
Terphenyl-d14 (Surr)	73		13 - 120
Nitrobenzene-d5 (Surr)	59		27 - 120

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

Lab Sample ID: 490-9205-H-1-C MSD Matrix: Solid

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA Prep Batch: 28688

Analysis Batch: 29023										Batch:	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	ND		1.79	1.437		mg/Kg	¢	80	25 - 120	8	50
Anthracene	ND		1.79	1.405		mg/Kg	¢	78	28 - 125	6	49
Benzo[a]anthracene	ND		1.79	1.449		mg/Kg	¢	81	23 - 120	7	50
Benzo[a]pyrene	ND		1.79	1.594		mg/Kg	¢	89	15 - 128	12	50
Benzo[b]fluoranthene	ND		1.79	1.704		mg/Kg	¢	95	12 - 133	20	50
Benzo[g,h,i]perylene	ND		1.79	1.297		mg/Kg	¢	72	22 - 120	12	50
Benzo[k]fluoranthene	ND		1.79	1.509		mg/Kg	Ø	84	28 - 120	2	45
1-Methylnaphthalene	0.232		1.79	1.605		mg/Kg	\$	77	10 - 120	0	50
Pyrene	ND		1.79	1.604		mg/Kg	¢	90	20 - 123	10	50
Phenanthrene	ND		1.79	1.497		mg/Kg	¢	84	21 - 122	10	50
Chrysene	ND		1.79	1.393		mg/Kg	Ø	78	20 - 120	8	49
Dibenz(a,h)anthracene	ND		1.79	1.130		mg/Kg	ø	63	12 - 128	9	50
Fluoranthene	ND		1.79	1.574		mg/Kg	¢	88	10 - 143	10	50
Fluorene	ND		1.79	1.548		mg/Kg	æ	86	20 - 120	8	50
Indeno[1,2,3-cd]pyrene	ND		1.79	1.254		mg/Kg	\$	70	22 - 121	9	50
Naphthalene	0.0709	J	1.79	1.639		mg/Kg	¢	88	10 - 120	8	50
2-Methylnaphthalene	0.349		1.79	1.801		mg/Kg	¢	81	13 - 120	0	50
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
2-Fluorobiphenyl (Surr)	58		29 - 120								
Terphenyl-d14 (Surr)	69		13 - 120								
Nitrobenzene-d5 (Surr)	60		27 - 120								

Method: Moisture - Percent Moisture

Lab Sample ID: 490-9196-1 DU Matrix: Solid						-	Client Sample ID: 708 Bl Prep Type: To	
Analysis Batch: 28594								
	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Percent Solids	88		88		%		0.1	20

QC Association Summary

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

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GC/MS VOA

Prep Batch: 28571

448 Elderberry	Total/NA	Solid	5035	
Client Sample ID	Prep Type	Matrix	Method	Prep Batch
708 Bluebell	Total/NA	Solid	5035	
1320 Albatross	Total/NA	Solid	5035	
Client Sample ID	Prep Type	Matrix	Method	Prep Batch
708 Bluebell	Total/NA	Solid	8260B	28583
1320 Albatross	Total/NA	Solid	8260B	28583
448 Elderberry	Total/NA	Solid	8260B	28571
	Total/NA	Solid	8260B	29284
	Total/NA	Solid	8260B	29284
Lab Control Sample	Total/NA	Solid	8260B	
Lab Control Sample Dup	Total/NA	Solid	8260B	
Method Blank	Total/NA	Solid	8260B	
Method Blank	Total/NA	Solid	8260B	
Client Sample ID	Prep Type	Matrix	Method	Prep Batch
Matrix Spike	Total/NA	Solid	5035	
Matrix Spike Duplicate	Total/NA	Solid	5035	
Client Sample ID	Prep Type	Matrix	Method	Prep Batch
448 Elderberry	Total/NA	Solid	8260B	28571
Matrix Spike	Total/NA	Solid	8260B	29483
Matrix Spike Duplicate	Total/NA	Solid	8260B	29483
Lab Control Sample	Total/NA	Solid	8260B	
Lab Control Sample Dup	Total/NA	Solid	8260B	
Method Blank	Total/NA	Solid	8260B	
Client Sample ID	Prep Type	Matrix	Method	Prep Batch
Matrix Spike	Total/NA	Solid	5035	
Matrix Spike Duplicate	Total/NA	Solid	5035	
	1320 Albatross Client Sample ID 708 Bluebell 1320 Albatross 448 Elderberry Matrix Spike Matrix Spike Duplicate Lab Control Sample Dup Method Blank Method Blank Method Blank Client Sample ID Matrix Spike Duplicate Client Sample ID 448 Elderberry Matrix Spike Duplicate Lab Control Sample Lab Control Sample Lab Control Sample Lab Control Sample Lab Control Sample Lab Control Sample Lab Control Sample Dup Method Blank Client Sample ID	1320 AlbatrossTotal/NAClient Sample IDPrep Type708 BluebellTotal/NA1320 AlbatrossTotal/NA1320 AlbatrossTotal/NA448 ElderberryTotal/NAMatrix SpikeTotal/NAMatrix Spike DuplicateTotal/NALab Control Sample DupTotal/NAMethod BlankTotal/NAMethod BlankTotal/NAMethod BlankTotal/NAMethod BlankTotal/NAMethod BlankTotal/NAMethod BlankTotal/NAMethod BlankTotal/NAMethod BlankTotal/NAMethod BlankTotal/NAMatrix SpikeTotal/NAMatrix SpikeTotal/NAMatrix Spike DuplicateTotal/NAAdatrix Spike DuplicateTotal/NALab Control Sample IDPrep Type448 ElderberryTotal/NAMatrix SpikeTotal/NALab Control Sample DupTotal/NALab Control Sample DupTotal/NALab Control Sample DupTotal/NALab Control Sample DupTotal/NAMethod BlankTotal/NAMethod BlankTotal/NAMethod BlankTotal/NAMatrix SpikeTotal/NALab Control Sample DupTotal/NAMethod BlankTotal/NAMethod BlankTotal/NAMethod BlankTotal/NAMethod BlankTotal/NAMatrix SpikeTotal/NAMatrix SpikeTotal/NAMatrix SpikeTotal/NA	1320 AlbatrossTotal/NASolidClient Sample IDPrep TypeMatrix708 BluebellTotal/NASolid1320 AlbatrossTotal/NASolid1320 AlbatrossTotal/NASolid448 ElderberryTotal/NASolidMatrix SpikeTotal/NASolidMatrix Spike DuplicateTotal/NASolidLab Control Sample DupTotal/NASolidMethod BlankTotal/NASolidMethod BlankTotal/NASolidMatrix SpikeTotal/NASolidMatrix SpikeTotal/NASolidMatrix SpikeTotal/NASolidLab Control SampleTotal/NASolidLab Control Sample DupTotal/NASolidLab Control Sample DupTotal/NASolidLab Control Sample DupTotal/NASolidMethod BlankTotal/NASolidLab Control Sample DupTotal/NASolid <t< td=""><td>1320 AlbatrossTotal/NASolid5035Client Sample IDPrep TypeMatrixMethod708 BluebellTotal/NASolid8260B1320 AlbatrossTotal/NASolid8260B448 ElderberryTotal/NASolid8260BMatrix SpikeTotal/NASolid8260BMatrix Spike DuplicateTotal/NASolid8260BLab Control SampleTotal/NASolid8260BLab Control Sample DupTotal/NASolid8260BMethod BlankTotal/NASolid8260BMethod BlankTotal/NASolid8260BClient Sample IDPrep TypeMatrixMethodMatrix Spike DuplicateTotal/NASolid5035Client Sample IDPrep TypeMatrixMethodMatrix Spike DuplicateTotal/NASolid5035Client Sample IDPrep TypeMatrixMethod448 ElderberryTotal/NASolid8260BMatrix Spike DuplicateTotal/NASolid8260BMatrix Spike DuplicateTotal/NASolid8260BLab Control SampleTotal/NASolid8260BLab Control SampleTotal/NASolid8260BMatrix Spike DuplicateTotal/NASolid8260BLab Control SampleTotal/NASolid8260BLab Control SampleTotal/NASolid8260BLab Control SampleTotal/NASolid8260BLab Control Samp</td></t<>	1320 AlbatrossTotal/NASolid5035Client Sample IDPrep TypeMatrixMethod708 BluebellTotal/NASolid8260B1320 AlbatrossTotal/NASolid8260B448 ElderberryTotal/NASolid8260BMatrix SpikeTotal/NASolid8260BMatrix Spike DuplicateTotal/NASolid8260BLab Control SampleTotal/NASolid8260BLab Control Sample DupTotal/NASolid8260BMethod BlankTotal/NASolid8260BMethod BlankTotal/NASolid8260BClient Sample IDPrep TypeMatrixMethodMatrix Spike DuplicateTotal/NASolid5035Client Sample IDPrep TypeMatrixMethodMatrix Spike DuplicateTotal/NASolid5035Client Sample IDPrep TypeMatrixMethod448 ElderberryTotal/NASolid8260BMatrix Spike DuplicateTotal/NASolid8260BMatrix Spike DuplicateTotal/NASolid8260BLab Control SampleTotal/NASolid8260BLab Control SampleTotal/NASolid8260BMatrix Spike DuplicateTotal/NASolid8260BLab Control SampleTotal/NASolid8260BLab Control SampleTotal/NASolid8260BLab Control SampleTotal/NASolid8260BLab Control Samp

GC/MS Semi VOA

Prep Batch: 28688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-9196-1	708 Bluebell	Total/NA	Solid	3550C	
490-9196-2	1320 Albatross	Total/NA	Solid	3550C	
490-9196-3	448 Elderberry	Total/NA	Solid	3550C	
490-9205-H-1-B MS	Matrix Spike	Total/NA	Solid	3550C	
490-9205-H-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
LCS 490-28688/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 490-28688/13-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
MB 490-28688/1-A	Method Blank	Total/NA	Solid	3550C	

QC Association Summary

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

GC/MS Semi VOA (Continued)

Analysis Batch: 29023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-9196-1	708 Bluebell	Total/NA	Solid	8270D	28688
490-9196-2	1320 Albatross	Total/NA	Solid	8270D	28688
490-9196-3	448 Elderberry	Total/NA	Solid	8270D	28688
490-9205-H-1-B MS	Matrix Spike	Total/NA	Solid	8270D	28688
490-9205-H-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	28688
CS 490-28688/2-A	Lab Control Sample	Total/NA	Solid	8270D	28688
LCSD 490-28688/13-A	Lab Control Sample Dup	Total/NA	Solid	8270D	28688
MB 490-28688/1-A	Method Blank	Total/NA	Solid	8270D	28688
nalysis Batch: 29435					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-9196-3	448 Elderberry	Total/NA	Solid	8270D	28688

General Chemistry

Analysis Batch: 28594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-9196-1	708 Bluebell	Total/NA	Solid	Moisture	
490-9196-1 DU	708 Bluebell	Total/NA	Solid	Moisture	
490-9196-2	1320 Albatross	Total/NA	Solid	Moisture	
490-9196-3	448 Elderberry	Total/NA	Solid	Moisture	

Lab Sample ID: 490-9196-2

Lab Sample ID: 490-9196-3

Matrix: Solid

Matrix: Solid Percent Solids: 85.3

Percent Solids: 75.8

Client Samp Date Collected Date Received	: 10/09/12 14:3	30						D: 490-9196-1 Matrix: Solid ercent Solids: 87.6
Ргер Туре	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			28583	10/16/12 15:29	ML	TAL NSH
Total/NA	Analysis	8260B		1	29114	10/18/12 21:00	MH	TAL NSH
Total/NA	Prep	3550C			28688	10/17/12 08:50	AK	TAL NSH
Total/NA	Analysis	8270D		1	29023	10/18/12 21:54	WS	TAL NSH
Total/NA	Analysis	Moisture		1	28594	10/16/12 15:51	RS	TAL NSH

Client Sample ID: 1320 Albatross Date Collected: 10/10/12 15:45

Date Received: 10/16/12 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			28583	10/16/12 15:29	ML	TAL NSH
Total/NA	Analysis	8260B		1	29114	10/18/12 21:31	MH	TAL NSH
Total/NA	Prep	3550C			28688	10/17/12 08:50	AK	TAL NSH
Total/NA	Analysis	8270D		1	29023	10/18/12 22:14	WS	TAL NSH
Total/NA	Analysis	Moisture		1	28594	10/16/12 15:51	RS	TAL NSH

Client Sample ID: 448 Elderberry Date Collected: 10/11/12 14:15 Date Received: 10/16/12 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			28571	10/16/12 15:24	ML	TAL NSH
Total/NA	Analysis	8260B		1	29114	10/19/12 00:06	мн	TAL NSH
Total/NA	Analysis	8260B		1	29417	10/19/12 14:21	мн	TAL NSH
Total/NA	Prep	3550C			28688	10/17/12 08:50	AK	TAL NSH
Total/NA	Analysis	8270D		1	29023	10/18/12 22:35	WS	TAL NSH
Total/NA	Analysis	8270D		10	29435	10/19/12 16:25	WS	TAL NSH
Total/NA	Analysis	Moisture		1	28594	10/16/12 15:51	RS	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

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	10-30-12
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAC	9	1168CA	10-31-12
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Colorado	State Program	8	N/A	02-28-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAC	4	E87358	06-30-13
linois	NELAC	5	200010	12-09-12
owa	State Program	7	131	05-01-14
Kansas	NELAC	7	E-10229	10-31-12
Kentucky	State Program	4	90038	12-31-12
Kentucky (UST)	State Program	4	19	09-15-13
ouisiana	NELAC	6	LA120025	12-31-12
ouisiana	NELAC	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Aassachusetts	State Program	1	M-TN032	06-30-13
Ainnesota	NELAC	5	047-999-345	12-31-12
Aississippi	State Program	4	N/A	06-30-13
/ontana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAC	1	2963	10-09-13
New Jersey	NELAC	2	TN965	06-30-13
New York	NELAC	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-12
North Dakota	State Program	8	R-146	06-30-13
Dhio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-13
Dregon	NELAC	10	TN200001	04-30-13
Pennsylvania	NELAC	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-12
South Carolina	State Program	4	84009 (001)	02-28-13
South Carolina	State Program	4	84009 (002)	02-23-14
Fennessee	State Program	4	2008	02-23-14
exas	NELAC	6	T104704077-09-TX	08-31-13
JSDA	Federal	274	S-48469	11-02-13
Jtah	NELAC	8	TAN	06-30-13
/irginia	NELAC	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-13
Wisconsin	State Program	5	998020430	08-31-13
	A2LA	8	453.07	12-31-13

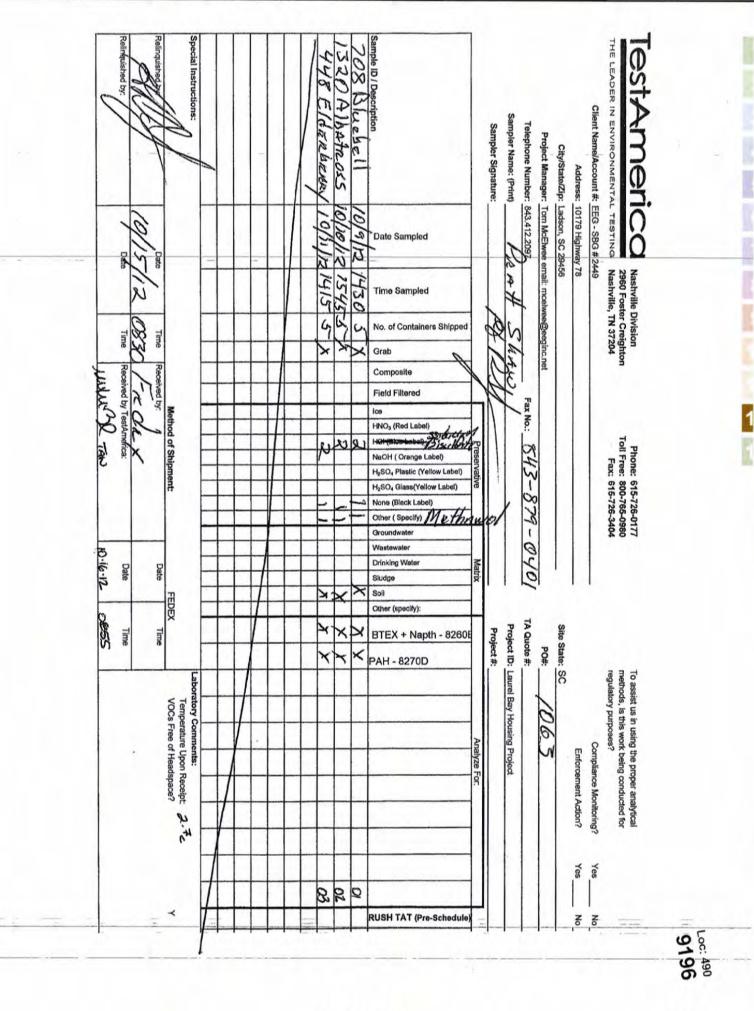
TestAmerica	Charleston
THE LEADER IN ENVIRONMENTAL TESTING Nashville, TN COOLER RECEIPT FORM	
Cooler Received/Opened On <u>10/16/2012 @ 0855</u>	490-9196 Chain of
1. Tracking #(last 4 digits, FedEx)	
Courier: Fed-ex IR Gun ID_95610068	
2. Temperature of rep. sample or temp blank when opened: <u>7-1</u> Degrees Celsius	0
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank fro	zen? YES NO. NA
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 NO NA
6. Were custody papers inside cooler?	YES)NONA
I certify that I opened the cooler and answered questions 1-6 (intial)	4
7. Were custody seals on containers: YES (1) and Intact	YESNO
Were these signed and dated correctly?	YESNO
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)?	ES.NONA
11. Were all container labels complete (#, date, signed, pres., etc)?	ESNONA
12. Did all container labels and tags agree with custody papers?	ESNONA
13a. Were VOA vials received?	ES.NONA
b. Was there any observable headspace present in any VOA vial?	YESNO.
14. Was there a Trip Blank in this cooler? YESNO. A If multiple coolers, see	quence #
I certify that I unloaded the cooler and answered guestions 7-14 (Intial)	- Con
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	ES.NONA
16. Was residual chlorine present?	YESNO
I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (int	tial)
17. Were custody papers properly filled out (ink, signed, etc)?	ESNONA
18. Did you sign the custody papers in the appropriate place?	ES.NONA
19. Were correct containers used for the analysis requested?	ENONA
20. Was sufficient amount of sample sent in each container?	ESNONA
I certify that I entered this project into LIMS and answered questions 17-20 (intial)	
I certify that I attached a label with the unique LIMS number to each container (intial)	(A)
21. Were there Non-Conformance issues at login? YES () Was a PIPE generated? Y	ESNO.#

BIS = Broken in shipment Cooler Receipt Form.doc

Revised 6/24/09

10/30/2012

1



Login Sample Receipt Checklist

Client: Environmental Enterprise Group

Login Number: 9196 List Number: 1

Creator: McBride, Mike

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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: 490-9196-1 SDG Number:

List Source: TestAmerica Nashville

ATTACHMENT A



NON-HAZARDOUS MANIFEST

	1. Generator's	US EPA IC) No.	Ma	anifest Doc	No.	2. Page 1	of			
	NON-HAZARDOUS MANIFEŠT						1	L			
	3. Generator's Mailing Address:	Genera	tor's Site	Address (if d	ifferent than m	nailing):	A. Manife	est Number			
	MCAS, BEAUFORT						W	MNA	0031	6831	
	LAUREL BAY HOUSING								e Generator'		
	BEAUFORT, SC 29907							D. 5tat	c denerator	510	
	4. Generator's Phone 843-228-6461										
	5. Transporter 1 Company Name		6.	US EPA IC) Number				ing the second	n an	
							C. State T	ransporter's	s ID		
	EEG, INC.						D. Transp	orter's Phor	ne 843-	879-041	.1
	7. Transporter 2 Company Name	1	8.	US EPA ID	Number						
							E. State T	ransporter's	s ID		
							F. Transp	orter's Phor	ne		
	9. Designated Facility Name and Site Address	1	10.	US EPA I	D Number				<u>the states</u>		
	HICKORY HILL LANDFILL						G. State F	acility ID			
	2621 LOW COUNTRY ROAD						H. State F	acility Phon	e 843-	987-464	.3
	RIDGELAND, SC 29936							같은 가지 않는 지만 같은 것			
$\left \right $		I			12. Co	ntainers	13. Total	14. Unit	<u>e et lagge</u> T	<u>1 a 12 a se</u> 1	- 57 68.89
G	11. Description of Waste Materials		-		No.	Туре	Quantity	Wt./Vol.	I. N	Aisc. Comme	nts
E	a. HEATING OIL TANKS FILLED WITH SAND										
E											
R	WM Profile # 1026555	SC				1.1.1	1993년 1913년				
A	b.										
T O											
R	WM Profile #										
	с.										•
	WM Profile #									<u></u>	
	d.										
								ļ			
	WM Profile #							Regional de la composition Composition			
	J. Additional Descriptions for Materials Listed Above				K. Dispos	al Location					
					Cell	<u> </u>			Level	1	
					Grid				Level	L	
ŀ	15. Special Handling Instructions and Additional Inform	nation	21-	7041	3100	6-11	41	351	CARC	1. JA	1
1	15. Special Handling Instructions and Additional Inform						51-	ny C	31url	5-11	
	D 568 LAURAL BA		3) 9	343	Dolp	st. it) X 1		14/101		55
ľ	Purchase Order #		EMER	RGENCY CON			- 6 j - 			/ · · · ·	
ŀ	16. GENERATOR'S CERTIFICATE:								•		
	I hereby certify that the above-described materials are	not hazaı	rdous was	tes as define	ed by CFR P	art 261 or a	iny applicable	e state law,	have been fu	ily and	
	accurately described, classified and packaged and are in										
	Printed Name	1	Signatur	e "On behal	f of	en an	·····		Month	Day	Year
+						a francisco de la composición		· · · · · · · · · · · · · · · · · · ·	· · · ·	123	
R	17. Transporter 1 Acknowledgement of Receipt of Mat		Signatur	0	211	$\theta \theta -$			Month	Day	Year
N	Printed Name Post.	Shotu	Signatur	e ,e	1D	and the second			10	25	12
	18. Transporter 2 Acknowledgement of Receipt of Mat				a contraction of the second					17 3 4	1. ~
	Printed Name		Signatur	re					Month	Day	Year
1	A Continue of the later of the		<u> </u>	<u> </u>	<u> </u>	<u></u>			A Section		
F	19. Certificate of Final Treatment/Disposal			. 6	المراجع والمراجع	*			lin encode :	الم بالمثرية مم	
A C	I certify, on behalf of the above listed treatment facility applicable laws, regulations, permits and licenses on th				oge, the ab	ove-descrit	bed waste w	as manageo	a in complian	ce with ali	
╏┠	20. Facility Owner or Operator: Certification of receipt				vered by th	nis manifect	<u> </u>				
╞	Printed Name		Signatu						Month	Day	Year
۲			Building	-						<u> </u>	
_1	White- TREATMENT, STORAGE, DISPOSAL FACILITY COP	PY	Blue- G	ENERATOR	#2 COPY		Ye	llow- GENE	RATOR #1 CO	PY	194. A
	Pink- FACILITY USE ONLY										

Appendix C Regulatory Correspondence





Catherine B. Templeton, Director Promating and protecting the brath of the public and the environment

May 15, 2014

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

RE: No Further Action Laurel Bay Underground Storage Tank Assessment Reports for: See attached sheet

Dear Mr. Drawdy,

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

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

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

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

Sincerely,

20 M. The

Kent Krieg Department of Defense Corrective Action Section Bureau of Land and Waste Management South Carolina Department of Health and Environmental Control

Cc: Russell Berry (via email) Craig Ehde (via email)



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

Attachment to: Krieg to Drawdy Subject: NFA Dated 5/15/2014

Laurel Bay Underground Storage Tank Assessment Reports for: (143 addresses/146 tanks)

19 Balsam508 Laurel Bay160 Beech Tank 1510 Laurel Bay160 Beech Tank 2523 Laurel Bay167 Birch525 Laurel Bay187 Birch529 Laurel Bay102 Ash533 Laurel Bay105 Ash537 Laurel Bay105 Ash537 Laurel Bay105 Ash556 Dahlia138 Ash Tank 1557 Dahlia138 Ash Tank 2559 Dahlia161 Aspen562 Dahlia171 Aspen568 Dahlia172 Aspen Tank 1581 Aster172 Aspen Tank 2582 Aster175 Aspen584 Aster185 Aspen602 Dahlia103 Elderberry617 Dahlia11 Elderberry616 Dahlia12 Elderberry629 Dahlia13 Elderberry631 Dahlia14 Elderberry631 Dahlia15 Elderberry634 Dahlia15 Elderberry660 Camellia16 Elderberry660 Camellia17 Elderberry660 Camellia18 Elderberry660 Camellia19 Dahlia55 Elderberry10 Laurel Bay666 Camellia10 Laurel Bay666 Camellia10 Laurel Bay667 Camellia	
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Laurel Bay Underground Storage Tank Assessment Reports for: (143 addresses/146 tanks) cont.

674 Camellia	880 Cobia
677 Camellia	890 Cobia
679 Camellia	892 Cobia
686 Camellia	900 Barracuda
690 Camellia	906 Barracuda
698 Abelia	911 Barracuda
700 Bluebell	912 Barracuda
704 Bluebell	917 Barracuda
705 Bluebell	919 Barracuda
708 Bluebell	928 Albacore
710 Bluebell	1024 Foxglove
711 Bluebell	1028 Foxglove
714 Bluebell	1029 Foxglove
715 Bluebell	1038 Iris
726 Bluebell	1049 Gardenia
728 Bluebell	1079 Heather
731 Bluebell	1103 Iris
734 Bluebell	1122 Iris
759 Althea	1136 Iris
761 Althea	1173 Bobwhite
773 Althea	1200 Cardinal
778 Laurel Bay	1221 Cardinal
807 Azalea	1238 Dove
814 Azalea	1241 Dove
815 Azalea	1242 Dove
818 Azalea	1248 Dove
820 Azalea	1262 Dove
821 Azalea	1265 Dove
831 Azalea	1267 Dove
832 Azalea	1289 Eagle
834 Azalea	1298 Eagle
835 Azalea	1300 Eagle
841 Azalea	1303 Eagle
853 Dolphin	1304 Eagle
858 Dolphin	1315 Albatross
869 Cobia	1316 Albatross
874 Cobia	1320 Albatross
875 Cobia	1338 Albatross

Laurel Bay Underground Storage Tank Assessment Reports for: (143 addresses/146 tanks) cont.

1340 Albatross		 	
1342 Albatross			
1344 Cardinal			
1345 Cardinal			
1349 Cardinal			
1355 Cardinal			
1366 Cardinal			
1374 Dove			
1375 Dove			
1415 Albatross			