SUMMARY REPORT
75 DOLPHIN STREET (FORMERLY 856 DOLPHIN STREET)

LAUREL BAY MILITARY HOUSING AREA

MARINE CORPS AIR STATION BEAUFORT

BEAUFORT, SC

Revision: 0 Prepared for:

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

and



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

Prepared by:



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

Contract Number: N62470-14-D-9016

CTO WE52

JUNE 2021





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List of Acronyms

bgs below ground surface

BTEX benzene, toluene, ethylbenzene, and xylenes

CTO Contract Task Order

COPC constituents of potential concern

IDIQ Indefinite Delivery, Indefinite Quantity

IGWA Initial Groundwater Assessment

JV Joint Venture

LBMH Laurel Bay Military Housing MCAS Marine Corps Air Station

NAVFAC Mid-Lant Naval Facilities Engineering Command Mid-Atlantic

NFA No Further Action

PAH polynuclear aromatic hydrocarbon

QAPP Quality Assurance Program Plan

RBSL risk-based screening level

SCDHEC South Carolina Department of Health and Environmental Control

Site LBMH area at MCAS Beaufort, South Carolina

UST underground storage tank

VISL vapor intrusion screening level



1.0 INTRODUCTION

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

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

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 75 Dolphin Street (Formerly 856 Dolphin Street). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

1.1 Background Information

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





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

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

1.2 UST Removal and Assessment Process

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

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

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





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

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

2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 75 Dolphin Street (Formerly 856 Dolphin Street). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 856 Dolphin Street* (MCAS Beaufort, 2013). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On March 26, 2013, a single 280 gallon heating oil UST was removed from the front yard adjacent to the porch area at 75 Dolphin Street (Formerly 856 Dolphin Street). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 6'5" bgs and a single soil sample was collected from that depth. The sample was collected from the fill port side of the former UST to represent a worst case scenario.

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





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

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 75 Dolphin Street (Formerly 856 Dolphin Street) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 75 Dolphin Street (Formerly 856 Dolphin Street). This NFA determination was obtained in a letter dated July 1, 2015. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

- Marine Corps Air Station Beaufort, 2013. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report 856 Dolphin Street, Laurel Bay Military Housing Area, October 2013.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2013. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division, *Revision 2.0*, April 2013.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2015. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division, *Revision 3.0*, May 2015.





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

Table



Table 1 Laboratory Analytical Results - Soil 75 Dolphin Street (Formerly 856 Dolphin Street) Laurel Bay Military Housing Area Marine Corps Air Station Beaufort

Beaufort, South Carolina

Constituent	SCDHEC RBSLs (1)	Results Sample Collected 03/26/13
Volatile Organic Compounds Analyze	d by EPA Method 8260B (mg/kg)	
Benzene	0.003	ND
Ethylbenzene	1.15	ND
Naphthalene	0.036	ND
Toluene	0.627	ND
Xylenes, Total	13.01 ND	
Semivolatile Organic Compounds Ana	lyzed by EPA Method 8270D (mg/kg)	
Benzo(a)anthracene	0.66	ND
Benzo(b)fluoranthene	0.66	0.0641
Benzo(k)fluoranthene	0.66	0.0243
Chrysene	0.66	ND
Dibenz(a,h)anthracene	0.66	ND

Notes:

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - milligram per kilogram

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

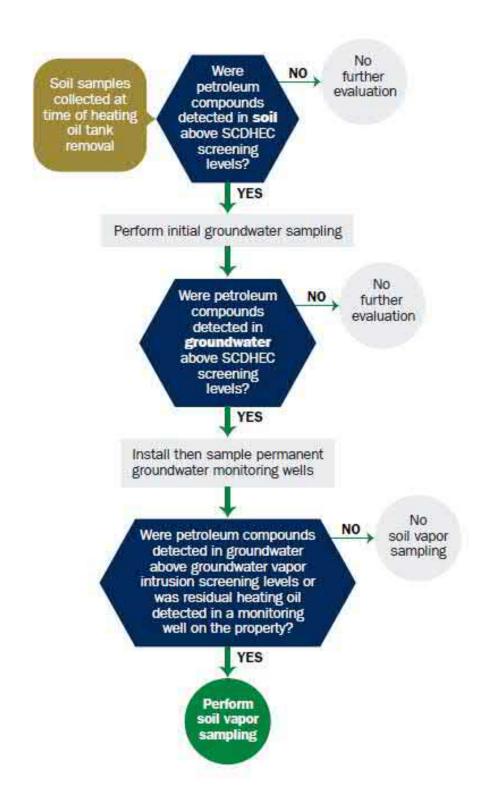
RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

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

Appendix A Multi-Media Selection Process for LBMH





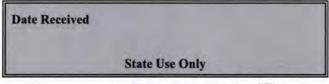
Appendix A - Multi-Media Selection Process for LBMH

Appendix B UST Assessment Report



South Carolina Department of Health and Environmental Control (SCDHEC)

Underground Storage Tank (UST) Assessment Report



RECEIVED

OCT 2 3 2014 3

ST DMEC - 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)

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

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. # Laurel Bay Militan	- Ty Housing Area, Marine Corps Air Station, Beaufort, SC
Facility Name or Company	Site Identifier
	t, Laurel Bay Military Housing Area
Street Address or State Roa	d (as applicable)
Beaufort,	Beaufort
City	County

Attachment 2

III. INSURANCE INFORMATION

	III. INBUR	DATE IN ORDATION
	Insura	nce Statement
qualify to receive state monies	s to pay for appropriate fund, written confirma	at Permit ID Number may e site rehabilitation activities. Before participation is ation of the existence or non-existence of an environmental completed.
Is there now, or has the UST release? YES_		ance policy or other financial mechanism that covers this one)
If you answered	I YES to the above qu	nestion, please complete the following information:
/	My policy provider is: The policy deductible The policy limit is:	is:
If you have this type o	f insurance, please inc	clude a copy of the policy with this report.
	IV. REQUEST	T FOR SUPERB FUNDING
I DO / DO NOT wi	sh to participate in the	SUPERB Program. (Circle one.)
V.	CERTIFICATION	N (To be signed by the UST owner)
I certify that I have persona attached documents; and the information, I believe that the	lly examined and an lat based on my inq le submitted informa	n familiar with the information submitted in this and all quiry of those individuals responsible for obtaining this ation is true, accurate, and complete.
Name (Type or print.)		
Signature		
To be completed by No	tary Public:	
Sworn before me this	day of	, 20
(Name)		
Notary Public for the state of_ Please affix State seal if you a	re commissioned outsi	ide South Carolina

(ex. Gas, Kerosene)		
on Material(ex. Steel, FRP	280 gal Late 1950s	
on Material(ex. Steel, FRP	Late 1950s	
on Material(ex. Steel, FRP	25	
)	
ar of Last Use	Mid 1980s	
To Base of Tank	6'5"	
ention Equipment Y/N	No	
revention Equipment Y/N	No	
Closure Removed/Filled	Removed	
s Removed/Filled	3/26/2013	
orrosion or Pitting Y/N	Yes	
oles Y/N	Yes	
le "D" landfill. Se	ee Attachment "A".	
1	revention Equipment Y/N f Closure Removed/Filled s Removed/Filled prosion or Pitting Y/N f disposal for any USTs removed/Filled was removed	no No No No No Removed Sention Equipment Y/N

VII. PIPING INFORMATION

	856Dolphin
	Steel
Construction Material(ex. Steel, FRP)	& Copper
Distance from UST to Dispenser	N/A
Number of Dispensers	N/A
Type of System Pressure or Suction	Suction
Was Piping Removed from the Ground? Y/N	No
Visible Corrosion or Pitting Y/N	Yes
Visible Holes Y/N	No
Age	Late 1950s
If any corrosion, pitting, or holes were observed, Corrosion and pitting were foun pipe. Copper supply and return	d on the surface of the steel ve
NAME DESCRIPTION OF THE PROCESS OF T	RIPTION AND HISTORY
	onstructed of single wall steel
The USTs at the residences are cand formerly contained fuel oil	
The USTs at the residences are c	for heating. These USTs were
The USTs at the residences are cand formerly contained fuel oil	for heating. These USTs were
The USTs at the residences are cand formerly contained fuel oil	for heating. These USTs were

IX. SITE CONDITIONS

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

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA#
356 Dolphin	Excav at fill end	Soil	Sandy	6'5"	3/26/13 1410 hrs	P. Shaw	
			-				
8							
9							
10							
11						1 - 1	
12							
13							
14							
15							
16							
17		- 41					
18							
19							
20							

^{* =} Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

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

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

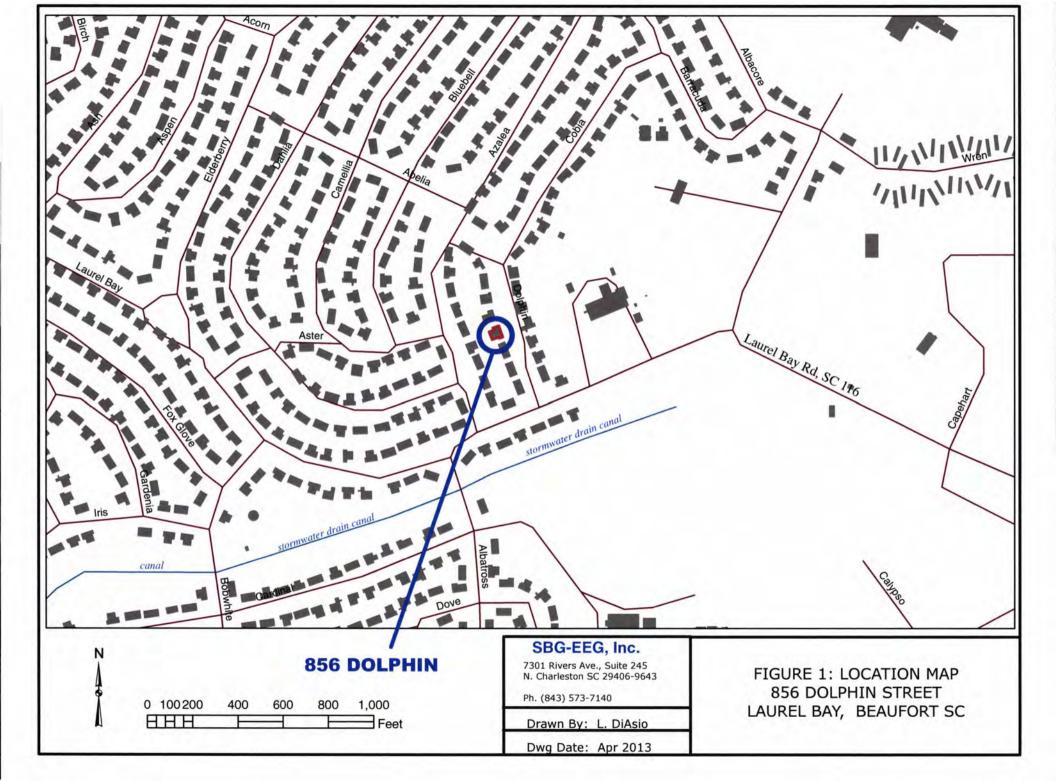
XII. RECEPTORS

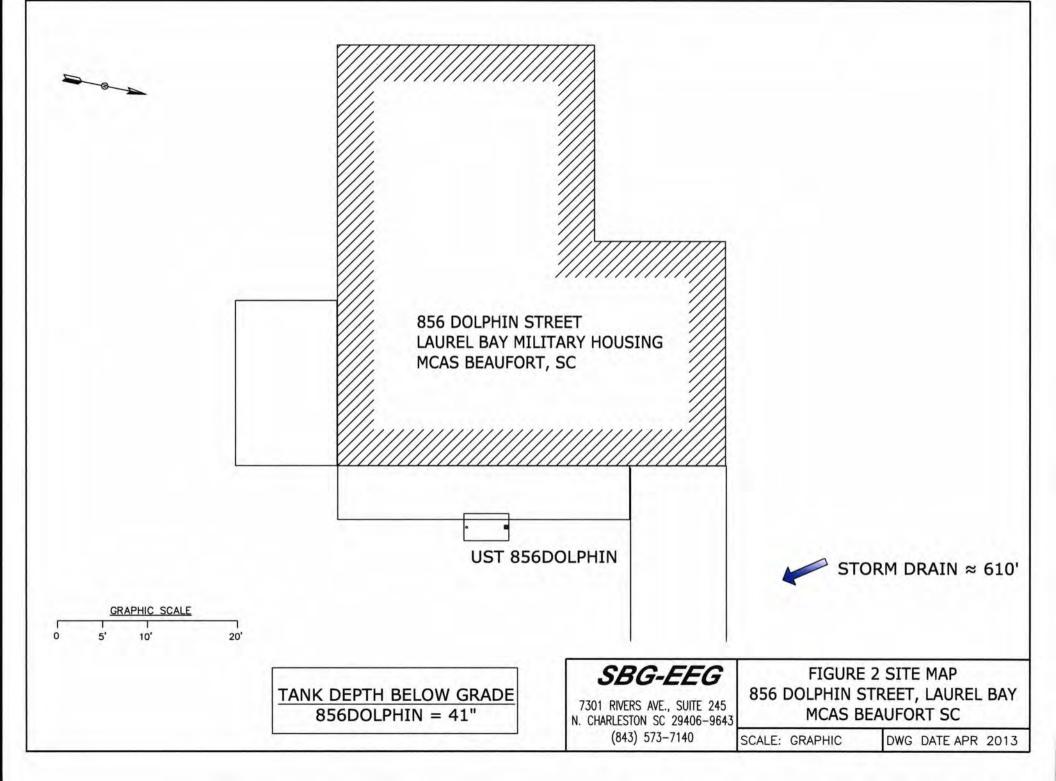
		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? *Stormwater drainage	*X canal	
	If yes, indicate type of receptor, distance, and direction on site map.		
В.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST 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 contamination? *Sewer, water, electricity.	*X	
	cable, fiber optic & g If yes, indicate the type of utility, distance, and direction on the site map.	eothe	rmal
E.	Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete?		X
	If yes, indicate the area of contaminated soil on the site map.		

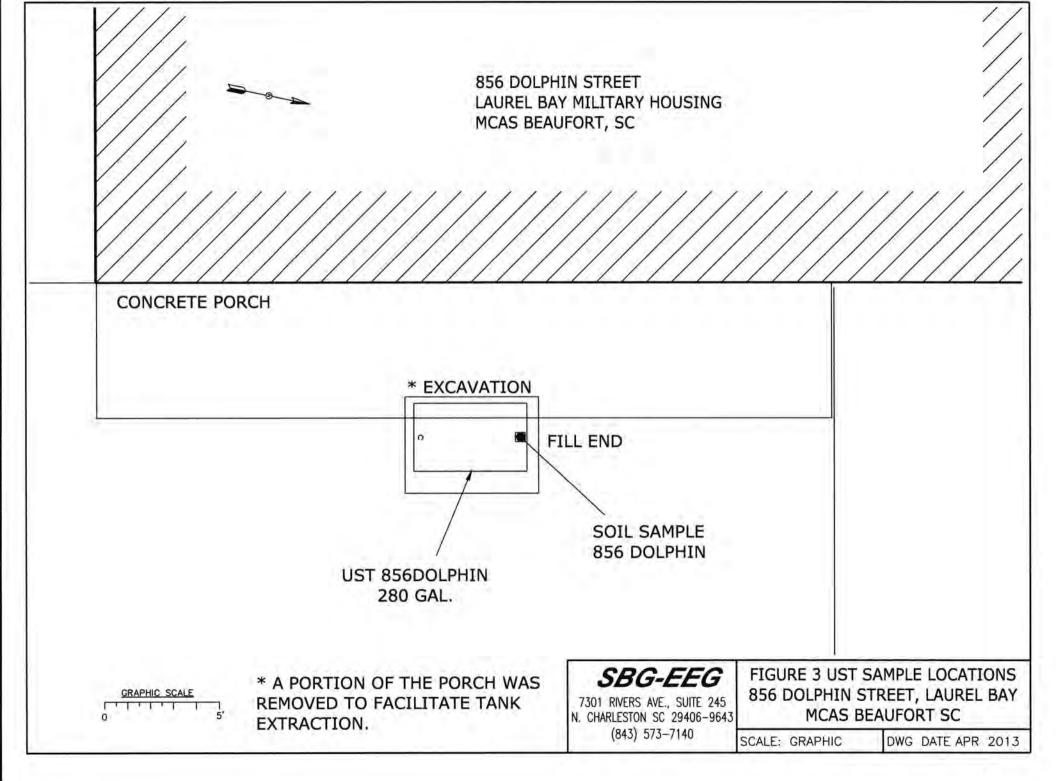
XIII. SITE MAP

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 856Dolphin.



Picture 2: UST 856Dolphin 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	856Dolphin			
Benzene	ND			
Toluene	ND			
Ethylbenzene	ND	_14		
Xylenes	ND			
Naphthalene	ND			
Benzo (a) anthracene	ND			
Benzo (b) fluoranthene	0.0641 mg/kg			
Benzo (k) fluoranthene	0.0243 mg/kg			
Chrysene	ND			
Dibenz (a, h) anthracene	ND			
TPH (EPA 3550)				
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		4		
Toluene	1,000	-			
Ethylbenzene	700	- 46 (
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	. 7			
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)



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TestAmerica

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: 490-23387-1

Client Project/Site: Laurel Bay Housing Project

Revision: 1

For:

Environmental Enterprise Group 10179 Highway 78 Ladson, South Carolina 29456

Attn: Mr. Tom McElwee

Authorized for release by:

4/26/2013 3:10:00 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.

1

4

6

7

8

10

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

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_

4

6

8

9

10

12

Sample Summary

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

TestAmerica Job ID: 490-23387-1

Lab Sample ID Client Sample ID		Matrix	Collected	Received	
490-23387-1	1327 Albatross	Solid	03/25/13 16:15	04/03/13 08:30	
490-23387-2	856 Dolphin	Solid	03/26/13 14:10	04/03/13 08:30	
490-23387-3	1321 Albatross	Solid	03/25/13 15:30	04/03/13 08:30	
490-23387-4	851 Dolphin	Solid	03/26/13 14:45	04/03/13 08:30	
490-23387-5	861 Dolphin	Solid	03/27/13 14:30	04/03/13 08:30	
490-23387-6	938 Albacore	Solid	03/28/13 14:45	04/03/13 08:30	
490-23387-7	935 Albacore	Solid	03/28/13 14:30	04/03/13 08:30	

Case Narrative

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

TestAmerica Job ID: 490-23387-1

Job ID: 490-23387-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-23387-1

REVISED REPORT: Revised to change the name on sample 490-23387-6 from 938 Albatross to 938 Albacore. This report replaces the one generated on 04/13/13 @ 1325.

Comments

No additional comments.

Receipt

The samples were received on 4/3/2013 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1° C.

GC/MS VOA

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 70742.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 70271 were outside control limits. This is attributed to non-homogeneity of the sample matrix and matrix interferences.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

TestAmerica Nashville 4/26/2013

Definitions/Glossary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-23387-1

Н

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
В	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

GC/MS Semi VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

RPD

TEF

TEQ

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

Client Sample Results

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-23387-1

Client Sample ID: 1327 Albatross

Date Collected: 03/25/13 16:15 Date Received: 04/03/13 08:30

Analyte

Percent Solids

Lab Sample ID: 490-23387-1

Matrix: Solid

Percent Solids: 70.4

Method: 8260B - Volatile Orga Analyte	the party of the p	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00300	0.00100	mg/Kg	p	04/04/13 14:45	04/05/13 18:16	-
Ethylbenzene	ND		0.00300	0.00100		Ø	04/04/13 14:45	04/05/13 18:16	
Naphthalene	ND		0.00749	0.00255	7.0	K	04/04/13 14:45	04/05/13 18:16	
Toluene	ND		0.00300	0.00111		Ħ	04/04/13 14:45	04/05/13 18:16	-
Xylenes, Total	0.00130	JB	0.00749	0.00100	mg/Kg	32	04/04/13 14:45	04/05/13 18:16	-
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	102		70 - 130				04/04/13 14:45	04/05/13 18:16	
4-Bromofluorobenzene (Surr)	108		70 - 130				04/04/13 14:45	04/05/13 18:16	-
Dibromofluoromethane (Surr)	99		70 - 130				04/04/13 14:45	04/05/13 18:16	- 3
Toluene-d8 (Surr)	107		70 - 130				04/04/13 14:45	04/05/13 18:16	1
Method: 8270D - Semivolatile	Organic Compou	nds (GC/MS	S)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0933	0.0139	mg/Kg	12	04/05/13 06:57	04/07/13 01:20	
Acenaphthylene	ND		0.0933	0.0125	mg/Kg	Ħ	04/05/13 06:57	04/07/13 01:20	
Anthracene	ND		0.0933	0.0125	mg/Kg	n	04/05/13 06:57	04/07/13 01:20	
Benzo[a]anthracene	ND		0.0933	0.0209	mg/Kg	红	04/05/13 06:57	04/07/13 01:20	1
Benzo[a]pyrene	ND		0.0933	0.0167	mg/Kg	12	04/05/13 06:57	04/07/13 01:20	7
Benzo[b]fluoranthene	ND		0.0933	0.0167	mg/Kg	a	04/05/13 06:57	04/07/13 01:20	- 1
Benzo[g,h,i]perylene	ND		0.0933	0.0125	mg/Kg	13	04/05/13 06:57	04/07/13 01:20	11
Benzo[k]fluoranthene	ND		0.0933	0.0195	mg/Kg	335	04/05/13 06:57	04/07/13 01:20	1
1-Methylnaphthalene	ND		0.0933	0.0195	mg/Kg	III.	04/05/13 06:57	04/07/13 01:20	1
Pyrene	ND		0.0933	0.0167	mg/Kg	Ħ	04/05/13 06:57	04/07/13 01:20	1
Phenanthrene	ND		0.0933	0.0125	mg/Kg	a	04/05/13 06:57	04/07/13 01:20	1
Chrysene	ND		0.0933	0.0125	mg/Kg	n	04/05/13 06:57	04/07/13 01:20	1
Dibenz(a,h)anthracene	ND		0.0933	0.00975	mg/Kg	13	04/05/13 06:57	04/07/13 01:20	1
Fluoranthene	ND		0.0933	0.0125	mg/Kg	30	04/05/13 06:57	04/07/13 01:20	1
Fluorene	ND		0.0933	0.0167	mg/Kg	O	04/05/13 06:57	04/07/13 01:20	1
Indeno[1,2,3-cd]pyrene	ND		0.0933	0.0139	mg/Kg	13	04/05/13 06:57	04/07/13 01:20	- 1
Naphthalene	ND		0.0933	0.0125	mg/Kg	123	04/05/13 06:57	04/07/13 01:20	1
2-Methylnaphthalene	ND		0.0933	0.0223	mg/Kg	13	04/05/13 06:57	04/07/13 01:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	57		29 - 120				04/05/13 06:57	04/07/13 01:20	1
Terphenyl-d14 (Surr)	81		13 - 120				04/05/13 06:57	04/07/13 01:20	1
Nitrobenzene-d5 (Surr)	51		27 - 120				04/05/13 06:57	04/07/13 01:20	1
General Chemistry									
ACCURAGE OF THE PARTY OF THE PA		0	-	-	11-14	-			

Analyzed

04/04/13 14:34

Dil Fac

RL

0.10

RL Unit

0.10 %

Prepared

Result Qualifier

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-23387-1

Client Sample ID: 856 Dolphin

Date Collected: 03/26/13 14:10 Date Received: 04/03/13 08:30

2-Fluorobiphenyl (Surr)

Nitrobenzene-d5 (Surr)

General Chemistry

Analyte

Percent Solids

Terphenyl-d14 (Surr)

Lab Sample ID: 490-23387-2

Matrix: Solid	
Percent Solids: 96.5	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00247	0.000827	mg/Kg	125	04/04/13 14:45	04/05/13 18:43	1
Ethylbenzene	ND		0.00247	0.000827	mg/Kg	Ø	04/04/13 14:45	04/05/13 18:43	1
Naphthalene	ND		0.00617	0.00210	mg/Kg	Ø	04/04/13 14:45	04/05/13 18:43	1
Toluene	ND		0.00247	0.000914	mg/Kg	Ü	04/04/13 14:45	04/05/13 18:43	1
Xylenes, Total	ND		0.00617	0.000827	mg/Kg	n	04/04/13 14:45	04/05/13 18:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130				04/04/13 14:45	04/05/13 18:43	1
4-Bromofluorobenzene (Surr)	106		70 - 130				04/04/13 14:45	04/05/13 18:43	1
Dibromofluoromethane (Surr)	96		70 - 130				04/04/13 14:45	04/05/13 18:43	1
Toluene-d8 (Surr)	106		70 - 130				04/04/13 14:45	04/05/13 18:43	1
Method: 8270D - Semivolatile C	Organic Compou	nds (GC/MS	3)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0688	0.0103	mg/Kg	Ħ	04/05/13 06:57	04/07/13 01:42	1
Acenaphthylene	ND		0.0688	0.00924	mg/Kg	n	04/05/13 06:57	04/07/13 01:42	1
Anthracene	ND		0.0688	0.00924	mg/Kg	D	04/05/13 06:57	04/07/13 01:42	1
Benzo[a]anthracene	ND		0.0688	0.0154	mg/Kg	C	04/05/13 06:57	04/07/13 01:42	1
Benzo[a]pyrene	ND		0.0688	0.0123	mg/Kg	E	04/05/13 06:57	04/07/13 01:42	1
Benzo[b]fluoranthene	0.0641	J	0.0688	0.0123	mg/Kg	12	04/05/13 06:57	04/07/13 01:42	1
Benzo[g,h,i]perylene	ND		0.0688	0.00924	mg/Kg	. 12	04/05/13 06:57	04/07/13 01:42	1
Benzo[k]fluoranthene	0.0243	J	0.0688	0.0144	mg/Kg	12	04/05/13 06:57	04/07/13 01:42	1
1-Methylnaphthalene	ND		0.0688	0.0144	mg/Kg	12	04/05/13 06:57	04/07/13 01:42	1
Pyrene	ND		0.0688	0.0123	mg/Kg	22	04/05/13 06:57	04/07/13 01:42	1
Phenanthrene	ND		0.0688	0.00924	mg/Kg	13	04/05/13 06:57	04/07/13 01:42	1
Chrysene	ND		0.0688	0.00924	mg/Kg	E	04/05/13 06:57	04/07/13 01:42	1
Dibenz(a,h)anthracene	ND		0.0688	0.00719	mg/Kg	Ø	04/05/13 06:57	04/07/13 01:42	1
Fluoranthene	ND		0.0688	0.00924	mg/Kg	\$2	04/05/13 06:57	04/07/13 01:42	1
Fluorene	ND		0.0688	0.0123	mg/Kg	13	04/05/13 06:57	04/07/13 01:42	1
ndeno[1,2,3-cd]pyrene	ND		0.0688	0.0103	mg/Kg	12	04/05/13 06:57	04/07/13 01:42	1
Naphthalene	ND		0.0688	0.00924	mg/Kg	12	04/05/13 06:57	04/07/13 01:42	- 1
2-Methylnaphthalene	ND		0.0688	0.0164	mg/Kg	Ki	04/05/13 06:57	04/07/13 01:42	1
and the second s									

04/07/13 01:42

04/07/13 01:42

04/07/13 01:42

Analyzed

04/04/13 14:34

1

1

Dil Fac

04/05/13 06:57

04/05/13 06:57

04/05/13 06:57

Prepared

29 - 120

13 - 120

27 - 120

RL

0.10

RL Unit

0.10 %

59

77

51

97

Result Qualifier

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-23387-1

Client Sample ID: 1321 Albatross

Date Collected: 03/25/13 15:30 Date Received: 04/03/13 08:30

General Chemistry

Analyte

Percent Solids

Lab Sample ID: 490-23387-3

Matrix: Solid

Percent Solids: 93.0

Method: 8260B - Volatile Orga Analyte	A CONTRACTOR OF THE PERSON ASSESSMENT	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00219	0.000732	mg/Kg	n	04/04/13 14:45	04/05/13 19:10	1
Ethylbenzene	ND		0.00219	0.000732	mg/Kg	37	04/04/13 14:45	04/05/13 19:10	1
Naphthalene	ND		0.00547	0.00186	mg/Kg	n	04/04/13 14:45	04/05/13 19:10	1
Toluene	ND		0.00219	0.000809	mg/Kg	Ø	04/04/13 14:45	04/05/13 19:10	1
Xylenes, Total	ND		0.00547	0.000732	mg/Kg	n	04/04/13 14:45	04/05/13 19:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130				04/04/13 14:45	04/05/13 19:10	1
4-Bromofluorobenzene (Surr)	108		70 - 130				04/04/13 14:45	04/05/13 19:10	1
Dibromofluoromethane (Surr)	98		70 - 130				04/04/13 14:45	04/05/13 19:10	1
Toluene-d8 (Surr)	106		70 - 130				04/04/13 14:45	04/05/13 19:10	1
Method: 8270D - Semivolatile	Organic Compou	nds (GC/MS	S)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0711	0.0106	mg/Kg	Ø	04/05/13 06:57	04/07/13 02:04	1
Acenaphthylene	ND		0.0711	0.00956	mg/Kg	n	04/05/13 06:57	04/07/13 02:04	1
Anthracene	ND		0.0711	0.00956	mg/Kg	n	04/05/13 06:57	04/07/13 02:04	1
Benzo[a]anthracene	ND		0.0711	0.0159	mg/Kg	122	04/05/13 06:57	04/07/13 02:04	1
Benzo[a]pyrene	ND		0.0711	0.0127	mg/Kg	KE.	04/05/13 06:57	04/07/13 02:04	1
Benzo[b]fluoranthene	ND		0.0711	0.0127	mg/Kg	XI.	04/05/13 06:57	04/07/13 02:04	1
Benzo[g,h,i]perylene	ND		0.0711	0.00956	mg/Kg	22	04/05/13 06:57	04/07/13 02:04	1
Benzo[k]fluoranthene	ND		0.0711	0.0149	mg/Kg	100	04/05/13 06:57	04/07/13 02:04	1
1-Methylnaphthalene	ND		0.0711	0.0149	mg/Kg	a	04/05/13 06:57	04/07/13 02:04	1
Pyrene	ND		0.0711	0.0127	mg/Kg	n	04/05/13 06:57	04/07/13 02:04	1
Phenanthrene	ND		0.0711	0.00956	mg/Kg	12	04/05/13 06:57	04/07/13 02:04	1
Chrysene	ND		0.0711	0.00956	mg/Kg	32	04/05/13 06:57	04/07/13 02:04	1
Dibenz(a,h)anthracene	ND		0.0711	0.00743	mg/Kg	33	04/05/13 06:57	04/07/13 02:04	1
Fluoranthene	ND		0.0711	0.00956	mg/Kg	¤	04/05/13 06:57	04/07/13 02:04	1
Fluorene	ND		0.0711	0.0127	mg/Kg	XX.	04/05/13 06:57	04/07/13 02:04	1
Indeno[1,2,3-cd]pyrene	ND		0.0711	0.0106	mg/Kg	323	04/05/13 06:57	04/07/13 02:04	1
Naphthalene	ND		0.0711	0.00956	mg/Kg	CI.	04/05/13 06:57	04/07/13 02:04	1
2-Methylnaphthalene	ND		0.0711	0.0170	mg/Kg	12	04/05/13 06:57	04/07/13 02:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	57		29 - 120				04/05/13 06:57	04/07/13 02:04	1
Terphenyl-d14 (Surr)	77		13 - 120				04/05/13 06:57	04/07/13 02:04	1
Nitrobenzene-d5 (Surr)	51		27 - 120				04/05/13 06:57	04/07/13 02:04	1

Analyzed 04/04/13 14:34

RL

0.10

RL Unit

0.10 %

Prepared

Result Qualifier

Dil Fac

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-23387-1

Client Sample ID: 851 Dolphin

Date Collected: 03/26/13 14:45 Date Received: 04/03/13 08:30 Lab Sample ID: 490-23387-4

Matrix: Solid

Percent Solids: 77.6

ac	5
1	
1	6
1	
1	
1	
ac	8
1	0
1	~
1	
1	122

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00284	0.000950	mg/Kg	n	04/04/13 14:45	04/05/13 19:37	1
Ethylbenzene	ND		0.00284	0.000950	mg/Kg	300	04/04/13 14:45	04/05/13 19:37	1
Naphthalene	ND		0.00709	0.00241	mg/Kg	22	04/04/13 14:45	04/05/13 19:37	1
Toluene	ND		0.00284	0.00105	mg/Kg	122	04/04/13 14:45	04/05/13 19:37	1
Xylenes, Total	ND		0.00709	0.000950	mg/Kg	n	04/04/13 14:45	04/05/13 19:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qu	alifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105	70 - 130	04/04/13 14:45	04/05/13 19:37	1
4-Bromofluorobenzene (Surr)	108	70 - 130	04/04/13 14:45	04/05/13 19:37	1
Dibromofluoromethane (Surr)	98	70 - 130	04/04/13 14:45	04/05/13 19:37	1
Toluene-d8 (Surr)	106	70 - 130	04/04/13 14:45	04/05/13 19:37	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0840	0.0125	mg/Kg	DE	04/05/13 06:57	04/07/13 02:25	1
Acenaphthylene	ND		0.0840	0.0113	mg/Kg	101	04/05/13 06:57	04/07/13 02:25	1
Anthracene	ND		0.0840	0.0113	mg/Kg	D	04/05/13 06:57	04/07/13 02:25	- 1
Benzo[a]anthracene	0.122		0.0840	0.0188	mg/Kg	E	04/05/13 06:57	04/07/13 02:25	.1
Benzo[a]pyrene	0.102		0.0840	0.0150	mg/Kg	Ø	04/05/13 06:57	04/07/13 02:25	1
Benzo[b]fluoranthene	0.186		0.0840	0.0150	mg/Kg	-02	04/05/13 06:57	04/07/13 02:25	1
Benzo[g,h,i]perylene	0.0473	J	0.0840	0.0113	mg/Kg	D	04/05/13 06:57	04/07/13 02:25	1
Benzo[k]fluoranthene	0.0675	J	0.0840	0.0175	mg/Kg	E	04/05/13 06:57	04/07/13 02:25	1
1-Methylnaphthalene	ND		0.0840	0.0175	mg/Kg	D	04/05/13 06:57	04/07/13 02:25	1
Pyrene	0.157		0.0840	0.0150	mg/Kg	D	04/05/13 06:57	04/07/13 02:25	1
Phenanthrene	ND		0.0840	0.0113	mg/Kg	D	04/05/13 06:57	04/07/13 02:25	1
Chrysene	0.150		0.0840	0.0113	mg/Kg	n	04/05/13 06:57	04/07/13 02:25	1
Dibenz(a,h)anthracene	ND		0.0840	0.00877	mg/Kg	n	04/05/13 06:57	04/07/13 02:25	1
Fluoranthene	0.161		0.0840	0.0113	mg/Kg	E	04/05/13 06:57	04/07/13 02:25	1
Fluorene	ND		0.0840	0.0150	mg/Kg	0	04/05/13 06:57	04/07/13 02:25	1
Indeno[1,2,3-cd]pyrene	0.0451	J	0.0840	0.0125	mg/Kg	0	04/05/13 06:57	04/07/13 02:25	1
Naphthalene	ND		0.0840	0.0113	mg/Kg	D	04/05/13 06:57	04/07/13 02:25	1
2-Methylnaphthalene	ND		0.0840	0.0201	mg/Kg	D	04/05/13 06:57	04/07/13 02:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	58		29 - 120				04/05/13 06:57	04/07/13 02:25	1
Terphenyl-d14 (Surr)	78		13 - 120				04/05/13 06:57	04/07/13 02:25	1
Nitrobenzene-d5 (Surr)	54		27 - 120				04/05/13 06:57	04/07/13 02:25	1
General Chemistry	200								
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78		0.10	0.10	%			04/04/13 14:34	1

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-23387-1

Client Sample ID: 861 Dolphin

Date Collected: 03/27/13 14:30 Date Received: 04/03/13 08:30

Analyte

Percent Solids

Lab Sample ID: 490-23387-5

Matrix: Solid

Percent Solids: 93.0

Method: 8260B - Volatile Orga Analyte	AND THE PROPERTY OF THE PARTY O	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00216	0.000724	mg/Kg	Ħ	04/04/13 14:45	04/08/13 13:05	1
Ethylbenzene	ND		0.00216	0.000724	mg/Kg	n	04/04/13 14:45	04/08/13 13:05	1
Naphthalene	ND		0.00540	0.00184	mg/Kg	D	04/04/13 14:45	04/08/13 13:05	1
Toluene	ND		0.00216	0.000799	mg/Kg	122	04/04/13 14:45	04/08/13 13:05	1
Xylenes, Total	ND		0.00540	0.000724	mg/Kg	CI.	04/04/13 14:45	04/08/13 13:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130				04/04/13 14:45	04/08/13 13:05	1
4-Bromofluorobenzene (Surr)	107		70 - 130				04/04/13 14:45	04/08/13 13:05	- 1
Dibromofluoromethane (Surr)	98		70 - 130				04/04/13 14:45	04/08/13 13:05	1
Toluene-d8 (Surr)	105		70 - 130				04/04/13 14:45	04/08/13 13:05	1
Method: 8270D - Semivolatile	Organic Compou	nds (GC/MS	3)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0704	0.0105	mg/Kg	n	04/05/13 06:57	04/07/13 02:47	1
Acenaphthylene	ND		0.0704	0.00946	mg/Kg	KE.	04/05/13 06:57	04/07/13 02:47	1
Anthracene	ND		0.0704	0.00946	mg/Kg	D	04/05/13 06:57	04/07/13 02:47	1
Benzo[a]anthracene	ND		0.0704	0.0158	mg/Kg	305	04/05/13 06:57	04/07/13 02:47	1
Benzo[a]pyrene	ND		0.0704	0.0126	mg/Kg	D	04/05/13 06:57	04/07/13 02:47	1
Benzo[b]fluoranthene	ND		0.0704	0.0126	mg/Kg	325	04/05/13 06:57	04/07/13 02:47	1
Benzo[g,h,i]perylene	ND		0.0704	0.00946	mg/Kg	DE	04/05/13 06:57	04/07/13 02:47	1
Benzo[k]fluoranthene	ND		0.0704	0.0147	mg/Kg	D	04/05/13 06:57	04/07/13 02:47	1
1-Methylnaphthalene	ND		0.0704	0.0147	mg/Kg	E	04/05/13 06:57	04/07/13 02:47	1
Pyrene	ND		0.0704	0.0126	mg/Kg	(CE	04/05/13 06:57	04/07/13 02:47	1
Phenanthrene	ND		0.0704	0.00946	mg/Kg	DE	04/05/13 06:57	04/07/13 02:47	1
Chrysene	ND		0.0704	0.00946	mg/Kg	D	04/05/13 06:57	04/07/13 02:47	1
Dibenz(a,h)anthracene	ND		0.0704	0.00735	mg/Kg	325	04/05/13 06:57	04/07/13 02:47	1
Fluoranthene	ND		0.0704	0.00946	mg/Kg	n	04/05/13 06:57	04/07/13 02:47	1
Fluorene	ND		0.0704	0.0126	mg/Kg	Œ	04/05/13 06:57	04/07/13 02:47	1
ndeno[1,2,3-cd]pyrene	ND		0.0704	0.0105	mg/Kg	Œ	04/05/13 06:57	04/07/13 02:47	1
Naphthalene	ND		0.0704	0.00946	mg/Kg	æ	04/05/13 06:57	04/07/13 02:47	1
2-Methylnaphthalene	ND		0.0704	0.0168	mg/Kg	p	04/05/13 06:57	04/07/13 02:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	57		29 - 120				04/05/13 06:57	04/07/13 02:47	1
Terphenyl-d14 (Surr)	81		13 - 120				04/05/13 06:57	04/07/13 02:47	1
Nitrobenzene-d5 (Surr)	52		27 - 120				04/05/13 06:57	04/07/13 02:47	1
General Chemistry									
Analyte	Pocult	Qualifier	DI	PI	Unit	n	Prepared	Analyzed	Dil Fac

Analyzed

04/04/13 14:34

Dil Fac

RL

0.10

RL Unit

0.10 %

Prepared

Result Qualifier

93

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-23387-1

Client Sample ID: 938 Albacore

Date Collected: 03/28/13 14:45 Date Received: 04/03/13 08:30

Analyte

Percent Solids

Lab Sample ID: 490-23387-6

Matrix Solid

,	Watrix: Solid	
Percent	Solids: 89.3	

Method: 8260B - Volatile Orga Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00230	0.000772	mg/Kg	D	04/04/13 14:45	04/05/13 20:31	1
Ethylbenzene	ND		0.00230	0.000772	mg/Kg	20	04/04/13 14:45	04/05/13 20:31	1
Naphthalene	ND		0.00576	0.00196	mg/Kg	Ø	04/04/13 14:45	04/05/13 20:31	1
Toluene	ND		0.00230	0.000853	mg/Kg	D	04/04/13 14:45	04/05/13 20:31	1
Xylenes, Total	ND		0.00576	0.000772	mg/Kg	D	04/04/13 14:45	04/05/13 20:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130				04/04/13 14:45	04/05/13 20:31	1
4-Bromofluorobenzene (Surr)	107		70 - 130				04/04/13 14:45	04/05/13 20:31	1
Dibromofluoromethane (Surr)	93		70 - 130				04/04/13 14:45	04/05/13 20:31	1
Toluene-d8 (Surr)	105		70 - 130				04/04/13 14:45	04/05/13 20:31	1
Method: 8270D - Semivolatile	Organic Compou	inds (GC/MS	S)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0743	0.0111	mg/Kg	Ø	04/05/13 06:57	04/07/13 03:08	1
Acenaphthylene	ND		0.0743	0.00998	mg/Kg	n	04/05/13 06:57	04/07/13 03:08	1
Anthracene	ND		0.0743	0.00998	mg/Kg	D	04/05/13 06:57	04/07/13 03:08	1
Benzo[a]anthracene	ND		0.0743	0.0166	mg/Kg	D	04/05/13 06:57	04/07/13 03:08	1
Benzo[a]pyrene	ND		0.0743	0.0133	mg/Kg	ø	04/05/13 06:57	04/07/13 03:08	1
Benzo[b]fluoranthene	ND		0.0743	0.0133	mg/Kg	r.	04/05/13 06:57	04/07/13 03:08	- 1
Benzo[g,h,i]perylene	ND		0.0743	0.00998	mg/Kg	12	04/05/13 06:57	04/07/13 03:08	1
Benzo[k]fluoranthene	ND		0.0743	0.0155	mg/Kg	D	04/05/13 06:57	04/07/13 03:08	1
1-Methylnaphthalene	ND		0.0743	0.0155	mg/Kg	IQ.	04/05/13 06:57	04/07/13 03:08	1
Pyrene	ND		0.0743	0.0133	mg/Kg	n	04/05/13 06:57	04/07/13 03:08	1
Phenanthrene	ND		0.0743	0.00998	mg/Kg	12	04/05/13 06:57	04/07/13 03:08	1
Chrysene	ND		0.0743	0.00998	mg/Kg	12	04/05/13 06:57	04/07/13 03:08	1
Dibenz(a,h)anthracene	ND		0.0743	0.00776	mg/Kg	100	04/05/13 06:57	04/07/13 03:08	1
Fluoranthene	ND		0.0743	0.00998	mg/Kg	K	04/05/13 06:57	04/07/13 03:08	1
Fluorene	ND		0.0743	0.0133	mg/Kg	12	04/05/13 06:57	04/07/13 03:08	1
Indeno[1,2,3-cd]pyrene	ND		0.0743	0.0111	mg/Kg	82	04/05/13 06:57	04/07/13 03:08	1
Naphthalene	ND		0.0743	0.00998	mg/Kg	CT.	04/05/13 06:57	04/07/13 03:08	1
2-Methylnaphthalene	ND		0.0743	0.0177	mg/Kg	D	04/05/13 06:57	04/07/13 03:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	61		29 - 120				04/05/13 06:57	04/07/13 03:08	1
Terphenyl-d14 (Surr)	83		13 - 120				04/05/13 06:57	04/07/13 03:08	1
Nitrobenzene-d5 (Surr)	56		27 - 120				04/05/13 06:57	04/07/13 03:08	1
General Chemistry									
THE RESERVE OF THE PARTY OF THE	- 12	A	-	-		-	Table State Service		D

Analyzed

04/04/13 14:34

Dil Fac

RL

0.10

RL Unit

0.10 %

Prepared

Result Qualifier

89

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-23387-1

Client Sample ID: 935 Albacore

Date Collected: 03/28/13 14:30 Date Received: 04/03/13 08:30

Percent Solids

Lab Sample ID: 490-23387-7

Matrix: Solid

Percent Solids: 90.4

Benzene Ethylbenzene Naphthalene Toluene Xylenes, Total Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Method: 8270D - Semivolatile Or Analyte Acenaphthene		Qualifier nds (GC/MS Qualifier	0.00243 0.00243 0.00607 0.00243 0.00607 <i>Limits</i> 70 - 130 70 - 130 70 - 130 70 - 130	0.000814 0.000814 0.00207 0.000899 0.000814	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	n n	04/04/13 14:45 04/04/13 14:45 04/04/13 14:45 04/04/13 14:45 04/04/13 14:45 Prepared 04/04/13 14:45 04/04/13 14:45 04/04/13 14:45	04/05/13 20:58 04/05/13 20:58 04/05/13 20:58 04/05/13 20:58 04/05/13 20:58 Analyzed 04/05/13 20:58 04/05/13 20:58 04/05/13 20:58	1 1 1 1 1 Dil Fac
Naphthalene Toluene Xylenes, Total Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Method: 8270D - Semivolatile Or Analyte Acenaphthene	%Recovery 103 110 93 106 rganic Compou	nds (GC/MS	0.00607 0.00243 0.00607 Limits 70 - 130 70 - 130 70 - 130 70 - 130	0.00207 0.000899 0.000814	mg/Kg mg/Kg	n	04/04/13 14:45 04/04/13 14:45 04/04/13 14:45 Prepared 04/04/13 14:45 04/04/13 14:45	04/05/13 20:58 04/05/13 20:58 04/05/13 20:58 Analyzed 04/05/13 20:58 04/05/13 20:58 04/05/13 20:58	1 1 1 Dil Fac 1
Toluene Xylenes, Total Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Method: 8270D - Semivolatile Or Analyte Acenaphthene	%Recovery 103 110 93 106 rganic Compou	nds (GC/MS	0.00243 0.00607 Limits 70 - 130 70 - 130 70 - 130 70 - 130	0.000899 0.000814	mg/Kg	Ľī.	04/04/13 14:45 04/04/13 14:45 Prepared 04/04/13 14:45 04/04/13 14:45 04/04/13 14:45	04/05/13 20:58 04/05/13 20:58 Analyzed 04/05/13 20:58 04/05/13 20:58 04/05/13 20:58	1 1 Dil Fac 1 1
Xylenes, Total Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Method: 8270D - Semivolatile Or Analyte Acenaphthene	%Recovery 103 110 93 106 rganic Compou Result	nds (GC/MS	0.00607 Limits 70 - 130 70 - 130 70 - 130 70 - 130	0.000814			04/04/13 14:45 Prepared 04/04/13 14:45 04/04/13 14:45 04/04/13 14:45	04/05/13 20:58 Analyzed 04/05/13 20:58 04/05/13 20:58 04/05/13 20:58	1 Dil Fac
Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Method: 8270D - Semivolatile Or Analyte Acenaphthene	%Recovery 103 110 93 106 rganic Compou Result	nds (GC/MS	Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130		mg/Kg	Ø	Prepared 04/04/13 14:45 04/04/13 14:45 04/04/13 14:45	Analyzed 04/05/13 20:58 04/05/13 20:58 04/05/13 20:58	DII Fac 1 1 1
1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Method: 8270D - Semivolatile Or Analyte Acenaphthene	103 110 93 106 rganic Compou Result	nds (GC/MS	70 - 130 70 - 130 70 - 130 70 - 130	MO			04/04/13 14:45 04/04/13 14:45 04/04/13 14:45	04/05/13 20:58 04/05/13 20:58 04/05/13 20:58	1 1
4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Method: 8270D - Semivolatile Or Analyte Acenaphthene	110 93 106 rganic Compou Result		70 - 130 70 - 130 70 - 130	MO			04/04/13 14:45 04/04/13 14:45	04/05/13 20:58 04/05/13 20:58	1
Dibromofluoromethane (Surr) Toluene-d8 (Surr) Method: 8270D - Semivolatile Or Analyte Acenaphthene	93 106 rganic Compou Result ND		70 - 130 70 - 130	MO			04/04/13 14:45	04/05/13 20:58	1
Toluene-d8 (Surr) Method: 8270D - Semivolatile Or Analyte Acenaphthene	106 rganic Compou Result ND		70 - 130 S)	MO					
Method: 8270D - Semivolatile Or Analyte Acenaphthene	ganic Compou Result ND		5)	MPI			04/04/13 14:45	04/05/13 20:58	1
Analyte Acenaphthene	Result ND			MO					
Acenaphthene	ND	Qualifier	RL	MO					
				MDL	Unit	D	Prepared	Analyzed	Dil Fac
	ND		0.0739	0.0110	mg/Kg	II	04/05/13 06:57	04/07/13 03:29	1
Acenaphthylene	11-		0.0739	0.00992	mg/Kg	O	04/05/13 06:57	04/07/13 03:29	1
Anthracene	0.0260	J	0.0739	0.00992	mg/Kg	a	04/05/13 06:57	04/07/13 03:29	1
Benzo[a]anthracene	0.569		0.0739	0.0165	mg/Kg	n	04/05/13 06:57	04/07/13 03:29	1
Benzo[a]pyrene	0.298		0.0739	0.0132	mg/Kg	D	04/05/13 06:57	04/07/13 03:29	1
Benzo[b]fluoranthene	0.766		0.0739	0.0132	mg/Kg	O	04/05/13 06:57	04/07/13 03:29	- 1
Benzo[g,h,i]perylene	0.115		0.0739	0.00992	mg/Kg	a	04/05/13 06:57	04/07/13 03:29	1
Benzo[k]fluoranthene	0.214		0.0739	0.0154	mg/Kg	r;	04/05/13 06:57	04/07/13 03:29	1
1-Methylnaphthalene	ND		0.0739	0.0154	mg/Kg	173	04/05/13 06:57	04/07/13 03:29	. 1
Pyrene	0.783		0.0739	0.0132	mg/Kg	n	04/05/13 06:57	04/07/13 03:29	1
Phenanthrene	0.0618	J	0.0739	0.00992	mg/Kg	D	04/05/13 06:57	04/07/13 03:29	1
Chrysene	0.599		0.0739	0.00992	mg/Kg	33	04/05/13 06:57	04/07/13 03:29	1
Dibenz(a,h)anthracene	0.0434	J	0.0739	0.00772	mg/Kg	H	04/05/13 06:57	04/07/13 03:29	1
Fluoranthene	0.775		0.0739	0.00992	mg/Kg	II.	04/05/13 06:57	04/07/13 03:29	1
Fluorene	ND		0.0739	0.0132	mg/Kg	KI.	04/05/13 06:57	04/07/13 03:29	1
Indeno[1,2,3-cd]pyrene	0.119		0.0739	0.0110	mg/Kg	D	04/05/13 06:57	04/07/13 03:29	1
Naphthalene	ND		0.0739	0.00992	mg/Kg	B	04/05/13 06:57	04/07/13 03:29	1
2-Methylnaphthalene	ND		0.0739	0.0176	mg/Kg	П	04/05/13 06:57	04/07/13 03:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	52		29 - 120				04/05/13 06:57	04/07/13 03:29	1
Terphenyl-d14 (Surr)	69		13 - 120				04/05/13 06:57	04/07/13 03:29	1
Nitrobenzene-d5 (Surr)	46		27 - 120				04/05/13 06:57	04/07/13 03:29	1
General Chemistry Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac

04/04/13 14:34

0.10

0.10 %

90

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-23387-1

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

Lab Sample ID: MB 490-70330/6

Matrix: Solid

Analysis Batch: 70330

Client	Sample	ID:	Metho	d Blank
	D.		Dina. T	-4-1/ALA

Prep Type: Total/NA

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ND		0.100	0.0335	mg/Kg			04/05/13 11:56	1
ND		0.100	0.0335	mg/Kg			04/05/13 11:56	1
ND		0.250	0.0850	mg/Kg			04/05/13 11:56	1
ND		0.100	0.0370	mg/Kg			04/05/13 11:56	1
0.05089	J	0.250	0.0335	mg/Kg			04/05/13 11:56	1
	ND ND ND	ND ND ND	ND 0.100 ND 0.100 ND 0.250 ND 0.100	ND 0.100 0.0335 ND 0.100 0.0335 ND 0.250 0.0850 ND 0.100 0.0370	ND 0.100 0.0335 mg/Kg ND 0.100 0.0335 mg/Kg ND 0.250 0.0850 mg/Kg ND 0.100 0.0370 mg/Kg	ND 0.100 0.0335 mg/Kg ND 0.100 0.0335 mg/Kg ND 0.250 0.0850 mg/Kg ND 0.100 0.0370 mg/Kg	ND 0.100 0.0335 mg/Kg ND 0.100 0.0335 mg/Kg ND 0.250 0.0850 mg/Kg ND 0.100 0.0370 mg/Kg	ND 0.100 0.0335 mg/Kg 04/05/13 11:56 ND 0.100 0.0335 mg/Kg 04/05/13 11:56 ND 0.250 0.0850 mg/Kg 04/05/13 11:56 ND 0.100 0.0370 mg/Kg 04/05/13 11:56

	MB M	1B			
Surrogate	%Recovery Q	Qualifier Limits	Prepare	ed Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100	70 - 130		04/05/13 11:56	1
4-Bromofluorobenzene (Surr)	107	70 - 130		04/05/13 11:56	1
Dibromofluoromethane (Surr)	94	70 - 130		04/05/13 11:56	1
Toluene-d8 (Surr)	105	70 - 130		04/05/13 11:56	1

Lab Sample ID: MB 490-70330/7

Matrix: Solid

Analysis Batch: 70330

Client	Sample	ID: I	Metho	bc	Blank
	Pr	ep T	ype:	Tot	tal/NA

	мв	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			04/05/13 12:23	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			04/05/13 12:23	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			04/05/13 12:23	1
Toluene	ND		0.00200	0.000740	mg/Kg			04/05/13 12:23	1
Xylenes, Total	0.0009058	J	0.00500	0.000670	mg/Kg			04/05/13 12:23	1

MB	MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/05/13 12:23	1
4-Bromofluorobenzene (Surr)	108		70 - 130		04/05/13 12:23	1
Dibromofluoromethane (Surr)	97		70 - 130		04/05/13 12:23	1
Toluene-d8 (Surr)	104		70 - 130		04/05/13 12:23	1

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

Lab Sample ID: LCS 490-70330/3

Matrix: Solid

Analysis Batch: 70330

Spike	LCS	LCS				%Rec.
Added	Result	Qualifier	Unit	D	%Rec	Limits
0.0500	0.05164		mg/Kg		103	75 - 127
0.0500	0.05099		mg/Kg		102	80 - 134
0.0500	0.06031		mg/Kg		121	69 - 150
0.0500	0.05198		mg/Kg		104	80 - 132
0.150	0.1564		mg/Kg		104	80 - 137
	Added 0.0500 0.0500 0.0500 0.0500	Added Result 0.0500 0.05164 0.0500 0.05099 0.0500 0.06031 0.0500 0.05198	Added Result Qualifier 0.0500 0.05164 0.0500 0.05099 0.0500 0.06031 0.0500 0.05198	Added Result Qualifier Unit 0.0500 0.05164 mg/Kg 0.0500 0.05099 mg/Kg 0.0500 0.06031 mg/Kg 0.0500 0.05198 mg/Kg	Added Result Qualifier Unit D 0.0500 0.05164 mg/Kg 0.0500 0.05099 mg/Kg 0.0500 0.06031 mg/Kg 0.0500 0.05198 mg/Kg	Added Result Qualifier Unit D %Rec 0.0500 0.05164 mg/Kg 103 0.0500 0.05099 mg/Kg 102 0.0500 0.06031 mg/Kg 121 0.0500 0.05198 mg/Kg 104

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	111		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	106		70 - 130

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-23387-1

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

Lab Sample ID: LCSD 490-70330/4

Matrix: Solid

Analysis Batch: 70330

Client	Sample	ID:	Lab	Control	Sample	Dup
				Dune To	was Take	LINIA

Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.05304		mg/Kg		106	75 - 127	3	50
Ethylbenzene	0.0500	0.05255		mg/Kg		105	80 - 134	3	50
Naphthalene	0.0500	0.05817		mg/Kg		116	69 - 150	4	50
Toluene	0.0500	0.05236		mg/Kg		105	80 - 132	1	50
Xylenes, Total	0.150	0.1593		mg/Kg		106	80 - 137	2	50

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	110		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Matrix: Solid

Lab Sample ID: MB 490-70742/7

Analysis Batch: 70742

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			04/08/13 12:38	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			04/08/13 12:38	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			04/08/13 12:38	1
Toluene	ND		0.00200	0.000740	mg/Kg			04/08/13 12:38	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			04/08/13 12:38	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101	70 - 130		04/08/13 12:38	1
4-Bromofluorobenzene (Surr)	107	70 - 130		04/08/13 12:38	1
Dibromofluoromethane (Surr)	97	70 - 130		04/08/13 12:38	1
Toluene-d8 (Surr)	104	70 - 130		04/08/13 12:38	1

Lab Sample ID: LCS 490-70742/3

Matrix: Solid

Analysis Batch: 70742

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

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.0500	0.05096		mg/Kg		102	75 - 127
Ethylbenzene	0.0500	0.05124		mg/Kg		102	80 - 134
Naphthalene	0.0500	0.05633		mg/Kg		113	69 - 150
Toluene	0.0500	0.05244		mg/Kg		105	80 - 132
Xylenes, Total	0.150	0.1556		mg/Kg		104	80 - 137

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	109		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-23387-1

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

LCSD LCSD %Recovery Qualifier

103

108

98

102

57

79

55

Lab Sample ID: LCSD 490-70742/4

Matrix: Solid

Analysis Batch: 70742

(Client	Sample	ID:	Lab	Con	trol	Sample	Dup
					-	-	-	

Prep Type: Total/NA

RPD	
Limit	RPD
50	2

	Spike	LCSD	LUSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.05195		mg/Kg		104	75 - 127	2	50
Ethylbenzene	0.0500	0.05031		mg/Kg		101	80 - 134	2	50
Naphthalene	0.0500	0.05524		mg/Kg		110	69 - 150	2	50
Toluene	0.0500	0.05009		mg/Kg		100	80 - 132	5	50
Xylenes, Total	0.150	0.1518		mg/Kg		101	80 - 137	2	50

Limits

70 - 130

70 - 130

70 - 130

70 - 130

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

Lab Sample ID: MB 490-70271/1-A

Matrix: Solid

Toluene-d8 (Surr)

Surrogate

Analysis Batch: 70593

2-Fluorobiphenyl (Surr)

Nitrobenzene-d5 (Surr)

Terphenyl-d14 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 70271

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		04/05/13 06:57	04/06/13 23:54	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		04/05/13 06:57	04/06/13 23:54	1
Anthracene	ND		0.0670	0.00900	mg/Kg		04/05/13 06:57	04/06/13 23:54	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		04/05/13 06:57	04/06/13 23:54	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		04/05/13 06:57	04/06/13 23:54	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		04/05/13 06:57	04/06/13 23:54	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		04/05/13 06:57	04/06/13 23:54	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		04/05/13 06:57	04/06/13 23:54	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		04/05/13 06:57	04/06/13 23:54	1
Pyrene	ND		0.0670	0.0120	mg/Kg		04/05/13 06:57	04/06/13 23:54	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		04/05/13 06:57	04/06/13 23:54	1
Chrysene	ND		0.0670	0.00900	mg/Kg		04/05/13 06:57	04/06/13 23:54	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		04/05/13 06:57	04/06/13 23:54	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		04/05/13 06:57	04/06/13 23:54	1
Fluorene	ND		0.0670	0.0120	mg/Kg		04/05/13 06:57	04/06/13 23:54	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		04/05/13 06:57	04/06/13 23:54	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		04/05/13 06:57	04/06/13 23:54	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		04/05/13 06:57	04/06/13 23:54	1
	мв	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

TestAmerica Nashville

04/06/13 23:54

04/06/13 23:54

04/06/13 23:54

04/05/13 06:57

04/05/13 06:57

04/05/13 06:57

29 - 120

13 - 120

27 - 120

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-23387-1

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

Lab Sample ID: LCS 490-70271/2-A

Matrix: Solid

Analysis Batch: 70593

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70271

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.67	1.175		mg/Kg		70	38 - 120
Anthracene	1.67	1.134		mg/Kg		68	46 - 124
Benzo[a]anthracene	1.67	1.145		mg/Kg		69	45 - 120
Benzo[a]pyrene	1.67	1.149		mg/Kg		69	45 - 120
Benzo[b]fluoranthene	1.67	1.183		mg/Kg		71	42 - 120
Benzo[g,h,i]perylene	1.67	1.217		mg/Kg		73	38 - 120
Benzo[k]fluoranthene	1.67	1.149		mg/Kg		69	42 - 120
1-Methylnaphthalene	1.67	1.072		mg/Kg		64	32 - 120
Pyrene	1.67	1.170		mg/Kg		70	43 - 120
Phenanthrene	1.67	1.173		mg/Kg		70	45 - 120
Chrysene	1.67	1.136		mg/Kg		68	43 - 120
Dibenz(a,h)anthracene	1.67	1.273		mg/Kg		76	32 - 128
Fluoranthene	1.67	1.125		mg/Kg		68	46 - 120
Fluorene	1.67	1.085		mg/Kg		65	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.242		mg/Kg		75	41 - 121
Naphthalene	1.67	1.071		mg/Kg		64	32 - 120
2-Methylnaphthalene	1.67	1.100		mg/Kg		66	28 - 120

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	57		29 - 120
Terphenyl-d14 (Surr)	71		13 - 120
Nitrohenzene-d5 (Surr)	50		27 120

Lab Sample ID: 490-23367-B-5-B MS

Matrix: Solid

Analysis Batch: 70593

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

Prep Batch: 70271

Analysis Batch: 70593	Sample	Sample	Spike	MS	MS				%Rec.
Analyte		Qualifier	Added	Result		Unit	D	%Rec	Limits
Acenaphthylene	ND		1.90	1.550		mg/Kg	Ø	82	25 - 120
Anthracene	0.104		1.90	1.568		mg/Kg	10	77	28 - 125
Benzo[a]anthracene	0.239		1.90	1.702		mg/Kg	0	77	23 - 120
Benzo[a]pyrene	0.203		1.90	1.641		mg/Kg	Œ	76	15 - 128
Benzo[b]fluoranthene	ND		1.90	1.796		mg/Kg	12	94	12 - 133
Benzo[g,h,i]perylene	0.327		1.90	1.899		mg/Kg	175	83	22 - 120
Benzo[k]fluoranthene	0.170		1.90	1.365		mg/Kg	12	63	28 - 120
1-Methylnaphthalene	1.45		1.90	2.168		mg/Kg	22	38	10 - 120
Pyrene	0.759		1.90	2.153		mg/Kg	to to	73	20 - 123
Phenanthrene	0.517		1.90	1.780		mg/Kg	Ø	66	21 - 122
Chrysene	0.183		1.90	1.502		mg/Kg	30	69	20 - 120
Dibenz(a,h)anthracene	ND		1.90	1.801		mg/Kg	11	95	12 - 128
Fluoranthene	0.316		1.90	1.624		mg/Kg	10	69	10 - 143
Fluorene	0.151		1.90	1.556		mg/Kg	13	74	20 - 120
Indeno[1,2,3-cd]pyrene	0.0822		1.90	1.827		mg/Kg	30	92	22 - 121
Naphthalene	1.31		1.90	1.858		mg/Kg	13	29	10 - 120
2-Methylnaphthalene	2.65		1.90	2.692	F	mg/Kg	73	2	13 - 120

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-23387-1

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

Lab Sample ID: 490-23367-B-5-B MS

Lab Sample ID: 490-23367-B-5-C MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 70593

Analysis Batch: 70593

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 70271

MS MS Surrogate %Recovery Qualifier Limits 2-Fluorobiphenyl (Surr) 66 29 120 Terphenyl-d14 (Surr) 100 13 - 120 Nitrobenzene-d5 (Surr) 57 27 - 120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 70271

17

16

25

43

66

50

50

50

50

50

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit D Acenaphthylene ND 1.89 1.378 mg/Kg 73 25 - 120 12 50 0.104 12 Anthracene 1.89 1.364 67 28 - 125 49 mg/Kg 14 12 Benzo[a]anthracene 0.239 1.89 1.385 mg/Kg 61 23 - 120 21 50 0.203 1.407 DE. 15 - 128 Benzo[a]pyrene 1.89 mg/Kg 64 15 50 ND Benzo[b]fluoranthene 1.89 1 492 mg/Kg 79 12 - 133 50 18 ta 22 - 120 Benzo[g,h,i]perylene 0.327 1.89 1.393 mg/Kg 57 31 50 Benzo[k]fluoranthene 0.170 1.89 1.267 mg/Kg 23 58 28 - 120 7 45 1-Methylnaphthalene 1.45 1.89 1.275 F mg/Kg -10 10 - 120 52 50 Pyrene 0.759 1.89 20 - 123 1.467 mg/Kg 38 38 50 10 Phenanthrene 0.517 1.89 1.404 mg/Kg 47 21 - 122 24 50 0.183 Chrysene 1.89 1.347 mg/Kg 62 20 - 120 11 49 ND Dibenz(a,h)anthracene 1.89 1.446 mg/Kg 77 12 - 128 22 50

1.374

1.327

1.421

1.201 F

1.357 F

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

10

n

32

56

62

71

-6

-68

10 - 143

20 - 120

22 - 121

10 - 120

13 - 120

Client Sample ID: 1327 Albatross

Prep Type: Total/NA

1.89

1.89

1.89

1.89

1.89

MSD MSD

0.316

0.151

0.0822

1.31

2.65

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	56		29 - 120
Terphenyl-d14 (Surr)	74		13 - 120
Nitrobenzene-d5 (Surr)	45		27 - 120

Method: Moisture - Percent Moisture

Lab Sample ID: 490-23387-1 DU

Matrix: Solid

Fluoranthene

Naphthalene

Indeno[1,2,3-cd]pyrene

2-Methylnaphthalene

Fluorene

Analysis Batch: 70175

	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Percent Solids	70		72		%		2	20

TestAmerica Nashville

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4/26/2013

QC Association Summary

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

TestAmerica Job ID: 490-23387-1

2

GC/MS VOA

Prep	Bat	tch:	70	184
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23387-1	1327 Albatross	Total/NA	Solid	5035	
490-23387-2	856 Dolphin	Total/NA	Solid	5035	
490-23387-3	1321 Albatross	Total/NA	Solid	5035	
490-23387-4	851 Dolphin	Total/NA	Solid	5035	
490-23387-5	861 Dolphin	Total/NA	Solid	5035	
490-23387-6	938 Albacore	Total/NA	Solid	5035	
490-23387-7	935 Albacore	Total/NA	Solid	5035	

Analysis Batch: 70330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23387-1	1327 Albatross	Total/NA	Solid	8260B	70184
490-23387-2	856 Dolphin	Total/NA	Solid	8260B	70184
490-23387-3	1321 Albatross	Total/NA	Solid	8260B	70184
490-23387-4	851 Dolphin	Total/NA	Solid	8260B	70184
490-23387-6	938 Albacore	Total/NA	Solid	8260B	70184
490-23387-7	935 Albacore	Total/NA	Solid	8260B	70184
LCS 490-70330/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-70330/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-70330/6	Method Blank	Total/NA	Solid	8260B	
MB 490-70330/7	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 70742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23387-5	861 Dolphin	Total/NA	Solid	8260B	70184
LCS 490-70742/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-70742/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-70742/7	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 70271

Chair and America					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23367-B-5-B MS	Matrix Spike	Total/NA	Solid	3550C	
490-23367-B-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
490-23387-1	1327 Albatross	Total/NA	Solid	3550C	
490-23387-2	856 Dolphin	Total/NA	Solid	3550C	
490-23387-3	1321 Albatross	Total/NA	Solid	3550C	
490-23387-4	851 Dolphin	Total/NA	Solid	3550C	
490-23387-5	861 Dolphin	Total/NA	Solid	3550C	
490-23387-6	938 Albacore	Total/NA	Solid	3550C	
490-23387-7	935 Albacore	Total/NA	Solid	3550C	
LCS 490-70271/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-70271/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 70593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23367-B-5-B MS	Matrix Spike	Total/NA	Solid	8270D	70271
490-23367-B-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	70271
490-23387-1	1327 Albatross	Total/NA	Solid	8270D	70271
490-23387-2	856 Dolphin	Total/NA	Solid	8270D	70271

QC Association Summary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-23387-1

2

GC/MS Semi VOA (Continued)

Analysis Batch: 70593 (Continued)

		Matrix	Method	Prep Batch
1321 Albatross	Total/NA	Solid	8270D	70271
851 Dolphin	Total/NA	Solid	8270D	70271
861 Dolphin	Total/NA	Solid	8270D	70271
938 Albacore	Total/NA	Solid	8270D	70271
935 Albacore	Total/NA	Solid	8270D	70271
Lab Control Sample	Total/NA	Solid	8270D	70271
Method Blank	Total/NA	Solid	8270D	70271
	851 Dolphin 861 Dolphin 938 Albacore 935 Albacore Lab Control Sample	851 Dolphin Total/NA 861 Dolphin Total/NA 938 Albacore Total/NA 935 Albacore Total/NA Lab Control Sample Total/NA	851 Dolphin Total/NA Solid 861 Dolphin Total/NA Solid 938 Albacore Total/NA Solid 935 Albacore Total/NA Solid Lab Control Sample Total/NA Solid	851 Dolphin Total/NA Solid 8270D 861 Dolphin Total/NA Solid 8270D 938 Albacore Total/NA Solid 8270D 935 Albacore Total/NA Solid 8270D Lab Control Sample Total/NA Solid 8270D

General Chemistry

Analysis Batch: 70175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23387-1	1327 Albatross	Total/NA	Solid	Moisture	
490-23387-1 DU	1327 Albatross	Total/NA	Solid	Moisture	
490-23387-2	856 Dolphin	Total/NA	Solid	Moisture	
490-23387-3	1321 Albatross	Total/NA	Solid	Moisture	
490-23387-4	851 Dolphin	Total/NA	Solid	Moisture	
490-23387-5	861 Dolphin	Total/NA	Solid	Moisture	
490-23387-6	938 Albacore	Total/NA	Solid	Moisture	
490-23387-7	935 Albacore	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-23387-1

Client Sample ID: 1327 Albatross

Date Collected: 03/25/13 16:15 Date Received: 04/03/13 08:30

Lab Sample ID: 490-23387-1

Matrix: Solid

Percent Solids: 70.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			70184	04/04/13 14:45	ML	TAL NSH
Total/NA	Analysis	8260B		1	70330	04/05/13 18:16	МН	TAL NSH
Total/NA	Prep	3550C			70271	04/05/13 06:57	AK	TAL NSH
Total/NA	Analysis	8270D		1	70593	04/07/13 01:20	BS	TAL NSH
Total/NA	Analysis	Moisture		1	70175	04/04/13 14:34	RS	TAL NSH

Lab Sample ID: 490-23387-2

Matrix: Solid

Matrix: Solid

Percent Solids: 93.0

Percent Solids: 96.5

Client Sample ID: 856 Dolphin Date Collected: 03/26/13 14:10

Date Received: 04/03/13 08:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			70184	04/04/13 14:45	ML	TAL NSH
Total/NA	Analysis	8260B		1	70330	04/05/13 18:43	МН	TAL NSH
Total/NA	Prep	3550C			70271	04/05/13 06:57	AK	TAL NSH
Total/NA	Analysis	8270D		1	70593	04/07/13 01:42	BS	TAL NSH
Total/NA	Analysis	Moisture		1	70175	04/04/13 14:34	RS	TAL NSH

Client Sample ID: 1321 Albatross

8270D

Moisture

Date Collected: 03/25/13 15:30

Date Received: 04/03/13 08:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			70184	04/04/13 14:45	ML	TAL NSH
Total/NA	Analysis	8260B		1	70330	04/05/13 19:10	мн	TAL NSH
Total/NA	Prep	3550C			70271	04/05/13 06:57	AK	TAL NSH

70593

70175

04/07/13 02:04

04/04/13 14:34 RS

BS

TAL NSH

TAL NSH

Client Sample ID: 851 Dolphin

Analysis

Analysis

Date Collected: 03/26/13 14:45

Date Received: 04/03/13 08:30

Total/NA

Total/NA

ah	Sampl	e ID.	490-23387-4	

Lab Sample ID: 490-23387-3

Matrix: Solid

Percent Solids: 77.6

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			70184	04/04/13 14:45	ML	TAL NSH
Total/NA	Analysis	8260B		1	70330	04/05/13 19:37	МН	TAL NSH
Total/NA	Prep	3550C			70271	04/05/13 06:57	AK	TAL NSH
Total/NA	Analysis	8270D		1	70593	04/07/13 02:25	BS	TAL NSH
Total/NA	Analysis	Moisture		1	70175	04/04/13 14:34	RS	TAL NSH

Lab Chronicle

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-23387-1

Client Sample ID: 861 Dolphin

Date Collected: 03/27/13 14:30 Date Received: 04/03/13 08:30 Lab Sample ID: 490-23387-5

Matrix: Solid

Percent Solids: 93.0

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			70184	04/04/13 14:45	ML	TAL NSH
Total/NA	Analysis	8260B		1	70742	04/08/13 13:05	МН	TAL NSH
Total/NA	Prep	3550C			70271	04/05/13 06:57	AK	TAL NSH
Total/NA	Analysis	8270D		1	70593	04/07/13 02:47	BS	TAL NSH
Total/NA	Analysis	Moisture		1	70175	04/04/13 14:34	RS	TAL NSH

6

7

8

Client Sample ID: 938 Albacore

Date Collected: 03/28/13 14:45 Date Received: 04/03/13 08:30 Lab Sample ID: 490-23387-6

Matrix: Solid

Percent Solids: 89.3

Batch Batch Dilution Batch Prepared Method Run Factor Number or Analyzed Analyst Lab **Prep Type** Туре 5035 70184 04/04/13 14:45 TAL NSH Total/NA ML Prep 8260B Total/NA Analysis 70330 04/05/13 20:31 MH TAL NSH Total/NA 3550C 70271 04/05/13 06:57 TAL NSH Prep AK 8270D 04/07/13 03:08 TAL NSH Total/NA 70593 BS Analysis Total/NA Analysis Moisture 70175 04/04/13 14:34 RS TAL NSH

12

Client Sample ID: 935 Albacore

Date Collected: 03/28/13 14:30 Date Received: 04/03/13 08:30 Lab Sample ID: 490-23387-7

Matrix: Solid

Percent Solids: 90.4

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			70184	04/04/13 14:45	ML	TAL NSH
Total/NA	Analysis	8260B		1	70330	04/05/13 20:58	МН	TAL NSH
Total/NA	Prep	3550C			70271	04/05/13 06:57	AK	TAL NSH
Total/NA	Analysis	8270D		1	70593	04/07/13 03:29	BS	TAL NSH
Total/NA	Analysis	Moisture		1	70175	04/04/13 14:34	RS	TAL NSH

Laboratory References:

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

Method Summary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-23387-1

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

Certification Summary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-23387-1

Laboratory: TestAmerica Nashville

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

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

^{*} Expired certification is currently pending renewal and is considered valid.



THE LEADER IN ENVIRONMENTAL TESTING Nashville, TN

COOLER RECEIPT FORM



Custody

Cooler Received/Opened On 4/3/2013 (<u>a, 6656</u>	
1. Tracking #	(last 4 digits, FedEx)	490-23387 Cha
Courier: FedEx IR Gun ID 94	660220	
2. Temperature of rep. sample or temp	blank when opened: (1 Degrees Celsius	
If Item #2 temperature is 0°C or less,	, was the representative sample or temp blank frozen	YES NO NA
4. Were custody seals on outside of co	poler?	YES NONA
If yes, how many and where: (1) The	ont	
5. Were the seals intact, signed, and da	ated correctly?	(ESNONA
6. Were custody papers inside cooler?		MES NO NA
I certify that I opened the cooler and an	swered questions 1-6 (intial)	6
7. Were custody seals on containers:	YES NO and Intact	YESNO.
Were these signed and dated correc	itly?	YESNO. NA
8. Packing mat'l used? Bubblewrap F	Plastic bag Peanuts Vermiculite Foam Insert Pap	er Other None
9. Cooling process:	(ice) Ice-pack Ice (direct contact) Dry ic	e Other None
10. Did all containers arrive in good co	endition (unbroken)?	VESNONA
11. Were all container labels complete	(#, date, signed, pres., etc)?	VESNONA
12. Did all container labels and tags ag	ree with custody papers?	(ES NO NA
13a. Were VOA vials received?		ESNONA
b. Was there any observable headsp	pace present in any VOA vial?	YES. NONA
14. Was there a Trip Blank in this coole	er? - ESNO. (.NA) If multiple coolers, sequel	nce # NA
I certify that I unloaded the cooler and a	answered questions 7-14 (intial)	7
15a. On pres'd bottles, did pH test strip	os suggest preservation reached the correct pH level	YESNO.(NA)
b. Did the bottle labels indicate that	the correct preservatives were used	(FS)NONA
16. Was residual chlorine present?		YESNO NA
certify that I checked for chlorine and	pH as per SOP and answered questions 15-16 (intial)	EA
17. Were custody papers properly filled	d out (ink, signed, etc)?	(ESNONA
18. Did you sign the custody papers In	the appropriate place?	€3NONA
19. Were correct containers used for th	ne analysis requested?	TESNONA
20. Was sufficient amount of sample se	ent in each container?	YES NONA
certify that I entered this project into L	IMS and answered questions 17-20 (Intial)	
	unique LIMS number to each container (intial)	

Special Instructions: THE LEADER IN ENVIRONMENTAL TESTING [estAmerica Client NamelAccount #: EEG # 2449 Sampler Name: (Print) Chr. S Jun Stall Sampler Signature: Telephone Number: 843.412.2097 Project Manager: Tom McElwee emzil: mcelwee@eeginc.net BATEDS City/State/Zip: Ladson, SC 29456 Address: 10179 Highway 78 3/25/13/6/5 4/2/13 Nashville Division 2960 Foster Creighton Nashville, TN 37204 Time Sampled 6 0900 No. of Containers Shipped X Grab Composite Field Filtered Fax No.: 843sthod of Ship HNO₃ (Red Label) Phone: 615-726-0177 Toll Free: 890-765-0980 Fax: 615-725-3404 879-040 17W 4513 (Specify) Mizthe Drinking Water Matrix Sludge Soll 11 8:18 Other (specify): TA Quote #: Project ID: Laurel Bay Housing Project Site State: SC Time BTEX + Napth - 8260E Project #: Time PO#: X X PAH - 8270D methods, is this work being conducted for regulatory purposes? To assist us in using the proper analytical Laboratory Comments: VOCs Free of Headspace? Temperature Upon Receipt 035 malyze For: Compliance Monitoring? Enforcement Action? 23387 Loc: 490 ¥85 Yes 8 RUSH TAT (Pre-Schedu 8 tandard TAT Z Fax Results 25 ept 027 with report

B9 /of 2

4/26/2013

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Special Instructions:				935 Albacone	938 Albatross	861 Dolphin	851 Delphin	1321 A/bAtross	Sample ID / Description		Sampler Signatur	Sampler Name: (Pri	Telephone Numbe	Project Manage	City/State/Zi	Addres	Client Name/Account	THE LEADER IN ENVIRONMENTAL TESTING
/Date /				3/28/13	3/28/13	3/27/13	26/13/	125/13	Date Sampled		· (2)	The Car	er: 843.412.2097	r: Tom McElwee em	p: Ladson, SC 29456	s: 10179 Highway 78	#: EEG - SBG # 2449	/8.292.07/23
				430	5441	1430	1544	05.5	Time Sampled	1	2	AR		ail: moelwe				Nashville Division 2960 Foster Creighton Nashville, TN 37204
Time	\vdash	-		57	57	57	5/	5	No. of Containers Shipped		1	4		e@eegin				Creigh N 3720
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ipment									H ₂ SO ₄ Plastic (Yellow Label)	ervative			M					ne: 61 ree: 80 ax: 61
				ئد -	N -	تع	2	12	None (Black Label) Other (Specify) Mill HA	4	1		879					Phone: 615-726-0177 Toll Free: 800-765-0980 Fax: 615-726-3404
									Wastewater				1					104
Date									Studge	Matrix					l			
FEDE	\vdash	-	H	×	×	×	×	×	Soil Other (specify):									
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	-	-	H	×	×	×	×	×	PAH - 8270D		#	ID: La	#	#	rte: SC			To reg
Ter VO	+	-	+	+	-	_						urel Bay		_				To assist us in using t methods, is this work regulatory purposes?
nperat Cs Fre	+	+	H	+		-	-					Housi		0				s this w
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s: on Re- eadspa	\vdash	H	H	+	_	_				e For		ect				orceme	oliance	prope ling co
ceipt:				+												ent Action?	Monitoring?	To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
	7	_							387							Yes_	Yes	
	1	1																
The same of the sa	Special Instructions: Comments: Caboratory Comments: Caborato	ructions: Method of Shipment: FEDEX FEDEX Time Received by: Date Time	ructions: Method of Shipment: FEDEX FEDEX Time Received by: Date Time	ructions: Method of Shipment: FEDEX 10 / Clate / Time Received by: Date Time	Albacone 3/28/L3 H/30 5 X 3 3 3 1 X	Albafross 3/28/13 /450 5 x 3 3 3 4 X x x X X x x X X x x X X x x X X x x X X x x X x x X X x x X X x x x X x x x X x x x X x x x X x x x X x x x X x x x X x x x	## Poliphi 3/28/13 1/30 5 X 3 3 3 X X X X X X	Dolphin \$\frac{1}{3} \ 445 \ 5 \ x \ 3 \ 3 1 x \ x \ x \ x \ 7 1 1 1 1 1 1 1 1 1	#Ress 3/55/13 1/530 5 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Time Recoived by: Date Sampled Date Sampled	Date Sampled Time Sampled Ti	Description Descr	Project ID: Laurel Bay Housing Project Proservative Proservative Project ID: Laurel Bay Housing Project Proservative Proser	Project B: Harrie Bay Housing Project Time Received by: Project B: Harrie Bay Housing Project Project B: Laurel Bay Housing Project	Project Manager: Tom McEwee email: mobinee@eeginc.net Pophone Number: 843,412.2007 Project ID: Jaurel Bay Housing Project P	Chystee/Zip: Ladson, SC 29458 Pope: No. 29458 Pope: No. 29458 Pope: No. 29458 Project ID: Laurel Bay Housing Project ITime Sampled Locare 3/28/13 1/430 5 X X Composite Field Filtered Locare 3/28/13 1/430 5 X X Composite Filter Filter Filtered Locare 3/28/13 1/430 5 X X Composite Filter Filter Filtered Locare 3/28/13 1/430 5 X X X X X X X X X X X X X X X X X X	Address: 10179 Highway 78 Chystand Ton McDive Geograph Fax No.: 843 – 874 – 70 A Quote #: Property Site State: 3C Poly State Sampled	Compliance Com

Page 26 99 27 with report

St. Albatross was listed it connectly,

4/13/2013

Login Sample Receipt Checklist

Client: Environmental Enterprise Group

Job Number: 490-23387-1

Login Number: 23387

List Source: TestAmerica Nashville

List Number: 1

Creator:	Abernathy,	Eric
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Answer Comment	
N/A	
True	
N/A	
True	
True	
True	
True	
	N/A True True True True True True True Tru

N/A

Residual Chlorine Checked.

ATTACHMENT A



NON-HAZARDOUS MANIFEST

- dentile - Justinia - mo	1. Generator's	US EPA	A ID No. M	anifest Doc	No.	2. Page 1	of		*	
NON-HAZARDOUS MANIFEST	A					1				
3. Generator's Mailing Address:		Gene	erator's Site Address (If	different than n	nailing):	A. Manife	est Number		-	
MCAS BEAUFORT		Terotor 3 Site Madi ess (il different diali malling).			WMNA		01510144			
LAUREL BAY HOUSING								01519144 Generator's ID		
BEAUFORT, SC 29904							b. State (senerator s	10	
	879-0411									
5. Transporter 1 Company Name	310 31000		6. US EPA I	D Number			13916			
Small Business 9	16					C. State T	ransporter's II)		
1 3 1 1 1 7 3 50	29956					D. Transp	orter's Phone			
7. Transporter 2 Company Name			8. US EPA I	D Number						
						E. State Transporter's ID				
						F. Transp	orter's Phone			
9. Designated Facility Name and Sit	e Address		10. US EPA ID Number							
HICKORY HILL LANDFILL						G. State Facility ID				
2621 LOW COUNTRY DRIVE						H. State Facility Phone 8			843-987-4643	
RIDGELAND, SC 29936									"FEET	
				12.0						
11. Description of Waste Materials				No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. N	lisc. Commen	ts
a. HEATING OIL TANK FILLED	WITH SAND						7	E		
N N				1	204	3.86	TON	70	6/3	3
WM Pro	ofile # 1026555	SC			J				1	
b.										
T .						200	7.00			
WM Profile #				V						
c. WWI Profile #										
WM Profile #										
d.										
				100			400			
WM Profile					-					
J. Additional Descriptions for Mate		a		K Disno	sal Location					
				III DISPO	our Location					
				Cell				Level		
				Grid						
15. Special Handling Instructions an	d Additional Inform	mation	-14/11	4	1861	Dolp	hin	4193	5-	
UST'S LRON	1; 3)	8:	51 Dolphin	, -	7 5	31	11	- 19	Ibac	ORE
1) 1327 Alba	+2055	3	856 DOIN	him	2)	1501	IDACO	RUV		
Purchase Order #			EMERGENCY CO	NTACT / PH	ONE NO.:					
16. GENERATOR'S CERTIFICATE:										
I hereby certify that the above-descri								, have bee	n fully and	
accurately described, classified and	packaged and are i	in prop			ording to app	plicable regu	lations.	1 2 2		12000
Printed Name	I wit		Signature "On beha	if of"	4			Month	Day	Year
17. Transporter 1 Acknowledgemen	at of Pacaint of Ma	toriale	_		0,	_		1	16	12
Printed Name	it of Receipt of Ivia	iteriais	Signature	1 A	11			Month	Day	Year
PR4	11 5 hu	40	1 Signature	1/2	11			21	16	1 3
18. Transporter 2 Acknowledgemen		-	-	/	/			1	10	
Printed Name			Signature	- (-			Month	Day	Year
TA ROLL				R	200			11	10	10
JAMES BALDE	-	_	James	MN	C. COL	d		17	18	15
19. Certificate of Final Treatment/D			V							
I certify, on behalf of the above liste				edge, the al	bove-describ	oed waste w	as managed in	complian	ce with all	
applicable laws, regulations, permits				Zarabesi (C. vi						
20. Facility Owner or Operator: Cer	tification of receip	ot of no		overed by t	his manifest			1.0		100
Printed Name	1		Signature	-	1 0	0		Month	Day	Year
low, cotrell	V		Von	(1)	Lulc	Υ		14	18	13
White-TREATMENT, STORAGE, DISF		PPY	Blue- GENERATOR		/)	Ye	llow- GENERA	IOR #1 CO	PY	
Pink- FACILITY USE	ONLY		Gold- TRANSPORTE	R #1 COPY	1					

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 134 Banyan 366 Aspen 134 Banyan 369 Aspen 145 Laurel Bay 373 Aspen 150 Laurel Bay 401 Elderberry 154 Laurel Bay 402 Elderberry 155 Laurel Bay 404 Elderberry 200 Balsam 410 Elderberry 201 Balsam 422 Elderberry 203 Balsam 424 Elderberry 208 Balsam 452 Elderberry 201 Balsam 452 Elderberry 210 Balsam 452 Elderberry 210 Cypress 465 Dogwood 222 Cypress 487 Laurel Bay 223 Cypress 487 Laurel Bay 252 Beech Tank 2 513 Laurel Bay 271 Beech Tank 1 519 Laurel Bay 271 Beech Tank 1 519 Laurel Bay 284 Birch Tank 1 535 Laurel Bay 284 Birch Tank 2 524 Laurel Bay 284 Birch Tank 2 553 Dahlia 308 Ash 590 Aster 311 Ash 591 Aster 312 Ash 610 Dahlia 317 Ash 612 Dahlia <t< th=""><th>111 Direct</th><th>262 Asman</th></t<>	111 Direct	262 Asman
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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 1 355 Ash Tank 1 641 Dahlia	271 Beech Tank 1	519 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 1 355 Ash Tank 1 641 Dahlia	271 Beech Tank 2	524 Laurel Bay
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 1 355 Ash Tank 1 641 Dahlia	284 Birch Tank 1	535 Laurel Bay
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	284 Birch Tank 2	553 Dahlia
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	308 Ash	590 Aster
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	311 Ash	591 Aster
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	312 Ash	610 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	317 Ash	612 Dahlia
351 Ash Tank 1 637 Dahlia Tank 1 351 Ash Tank 2 637 Dahlia Tank 2 355 Ash Tank 1 641 Dahlia	318 Ash	628 Dahlia
351 Ash Tank 2 637 Dahlia Tank 2 355 Ash Tank 1 641 Dahlia	337 Ash	636 Dahlia
355 Ash Tank 1 641 Dahlia	351 Ash Tank 1	637 Dahlia Tank 1
355 Ash Tank 1 641 Dahlia	351 Ash Tank 2	637 Dahlia Tank 2
355 Ash Tank 2 642 Dahlia Tank 1		
360 Aspen 642 Dahlia Tank 2	360 Aspen	

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

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

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

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