SUMMARY REPORT
86 WEST ALTHEA STREET (FORMERLY 761 WEST ALTHEA 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 86 WEST ALTHEA STREET (FORMERLY 761 WEST ALTHEA STREET) LAUREL BAY MILITARY HOUSING AREA MARINE CORPS AIR STATION BEAUFORT

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Naval Facilities Engineering Command Atlantic

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** 



# **Table of Contents**

1.0		TION1
1.1 1.2		ND INFORMATION
2.0	SAMPLING	ACTIVITIES AND RESULTS3
2.1 2.2		VAL AND SOIL SAMPLING
3.0	PROPERTY	STATUS4
4.0	REFERENC	ES4
Table	1	Table  Laboratory Analytical Results - Soil
Table	1	Edboratory Analytical Results - Soil
		Appendices
Appen	dix A	Multi-Media Selection Process for LBMH
Appen		UST Assesment Report
Appen	dix C	Regulatory Correspondence





### 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 86 West Althea Street (Formerly 761 West Althea 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 86 West Althea Street (Formerly 761 West Althea Street). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 761 West Althea Street* (MCAS Beaufort, 2013). The UST Assessment Report is provided in Appendix B.

## 2.1 UST Removal and Soil Sampling

On September 17, 2012, a single 280 gallon heating oil UST was removed from the concrete porch area at 86 West Althea Street (Formerly 761 West Althea Street). The UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 5'6" bgs and a single soil sample was collected from that depth. 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.



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

## 2.2 Soil Analytical Results

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

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 86 West Althea Street (Formerly 761 West Althea 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 86 West Althea Street (Formerly 761 West Althea Street). This NFA determination was obtained in a letter dated May 15, 2014. SCDHEC's NFA letter is provided in Appendix C.

#### 4.0 REFERENCES

Marine Corps Air Station Beaufort, 2013. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 761 West Althea Street, Laurel Bay Military Housing Area, February 2013.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2013. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division, *Revision 2.0*, April 2013.





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

# **Table**



#### Table 1

#### Laboratory Analytical Results - Soil 86 West Althea Street (Formerly 761 West Althea Street) Laurel Bay Military Housing Area

# Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	SCDHEC RBSLs (1)	Results Sample Collected 09/17/12						
/olatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)								
Benzene	0.003	ND						
Ethylbenzene	1.15	ND						
Naphthalene	0.036	ND						
Toluene	0.627	ND						
Xylenes, Total	13.01	ND						
Semivolatile Organic Compounds Ana	yzed by EPA Method 8270D (mg/kg)							
Benzo(a)anthracene	0.66	ND						
Benzo(b)fluoranthene	0.66	ND						
Benzo(k)fluoranthene	0.66	ND						
Chrysene	0.66	ND						
Dibenz(a,h)anthracene	0.66	ND						

#### Notes:

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.

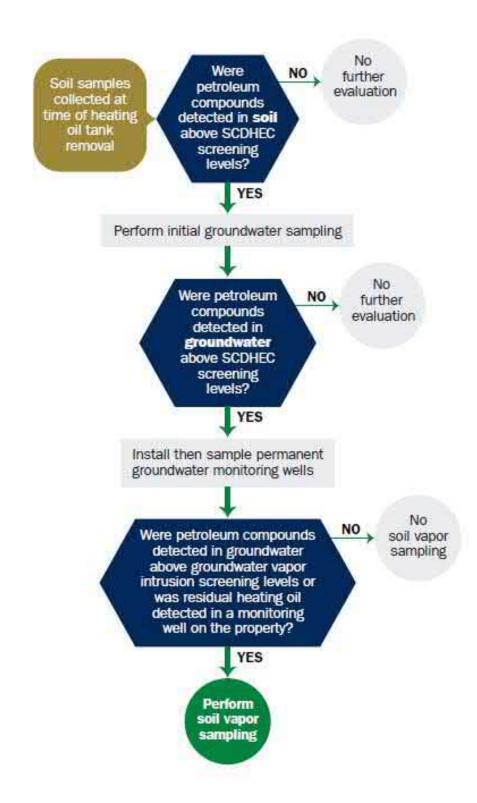
RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

<sup>&</sup>lt;sup>(1)</sup> South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 2.0 (SCDHEC, April 2013).

# Appendix A Multi-Media Selection Process for LBMH





**Appendix A - Multi-Media Selection Process for LBMH** 

# Appendix B UST Assessment Report



# Attachment 1

# South Carolina Department of Health and Environmental Control (SCDHEC)

# **Underground Storage Tank (UST) Assessment Report**

Date Received		
•		
	State Use Only	

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

# I. OWNERSHIP OF UST (S)

	mmanding Officer Attn: NR	EAO (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 Area Code	228-7317 Telephone Number	Craig Ehde Contact Person				
	r oropiiono r voincor					

# II. SITE IDENTIFICATION AND LOCATION

Permit I.D. #							
Laurel Bay Military	Housing Area,	Marine	Corps	Air	Station,	Beaufort,	SC
Facility Name or Company Si	te Identifier						
761 Althea Street, Street Address or State Road (		itary Ho	ousing	Area	a		
Beaufort,	Beaufort						
City	County	<del>-</del>					,

Attachment 2

# III. INSURANCE INFORMATION

Insurance Statement					
The petroleum release reported to DHEC on at Permit ID Number may qualify to receive state monies to pay for appropriate site rehabilitation activities. Before participation is allowed in the State Clean-up fund, written confirmation of the existence or non-existence of an environmental insurance policy is required. This section must be completed.					
Is there now, or has there ever been an insurance policy or other financial mechanism that covers this UST release? YES NO (check one)					
If you answered YES to the above question, please complete the following information:					
My policy provider is: The policy deductible is: The policy limit is:					
If you have this type of insurance, please include a copy of the policy with this report.					
IV. REQUEST FOR SUPERB FUNDING					
I DO / DO NOT wish to participate in the SUPERB Program. (Circle one.)					
V. CERTIFICATION (To be signed by the UST owner)					
I certify that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.					
Name (Type or print.)					
Signature					
To be completed by Notary Public:					
Sworn before me this day of, 20					
(Name)					
Notary Public for the state of  Please affix State seal if you are commissioned outside South Carolina					

VI. UST INFORMATION	761Althea
Product(ex. Gas, Kerosene)	Heating oil
Capacity(ex. 1k, 2k)	
Age	Late 1950s
Construction Material(ex. Steel, FRP	Steel
Month/Year of Last Use	Mid 1980s
Depth (ft.) To Base of Tank	5'6"
Spill Prevention Equipment Y/N	No
Overfill Prevention Equipment Y/N	N
Method of Closure Removed/Filled	Removed
Date Tanks Removed/Filled	9/17/2012
Visible Corrosion or Pitting Y/N	Yes
Visible Holes Y/N	Yes
	oved from the ground (attach disposal manifests) I from the ground and disposed at a ee Attachment "A".
disposal manifests)	oleum, sludges, or wastewaters removed from the USTs (attust) asly filled with sand by others.

# VII. PIPING INFORMATION

		761Althea		
		Steel		
C	Construction Material(ex. Steel, FRP)	& Copper		<u> </u>
Γ	Distance from UST to Dispenser	N/A		
N	Number of Dispensers	N/A		
T	Type of System Pressure or Suction	Suction		
V	Vas Piping Removed from the Ground? Y/N	No		
7	/isible Corrosion or Pitting Y/N	Yes		
V	/isible Holes Y/N	No		
Δ	Age	Late 1950s		
	f any corrosion, pitting, or holes were observed, d	escribe the location and	extent for ea	ch piping
	Corrosion and pitting were found	on the surface	of the st	eel ve
_	pipe. Copper supply and return 1		or the st	CCI VC
_				
	VIII RDIFF SITE DESCO	IPTION AND HIST	· OPV	
_	VIII. BRIEF SITE DESCRI			steel
_	VIII. BRIEF SITE DESCRITHE USTs at the residences are contained fuel oil f	nstructed of sin	gle wall	
_	The USTs at the residences are co	nstructed of sin or heating. Thes	gle wall e USTs we	ere
_	The USTs at the residences are co and formerly contained fuel oil f	nstructed of sin or heating. Thes	gle wall e USTs we	ere
_	The USTs at the residences are co and formerly contained fuel oil f	nstructed of sin or heating. Thes	gle wall e USTs we	ere
_	The USTs at the residences are co and formerly contained fuel oil f	nstructed of sin or heating. Thes	gle wall e USTs we	ere

# 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.		X	
B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells?  If yes, indicate location on site map and describe the odor (strong, mild, etc.)		Х	
C. Was water present in the UST excavation, soil borings, or trenches?  If yes, how far below land surface (indicate location and depth)?		Х	
D. Did contaminated soils remain stockpiled on site after closure?  If yes, indicate the stockpile location on the site map.  Name of DHEC representative authorizing soil removal:		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#
761 Althea	Excav at fill end	Soil	Sandy	5'6"	9/17/12 1345 hrs	P. Shaw	
8							
9	_						
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

<sup>\* =</sup> Depth Below the Surrounding Land Surface

# XI. SAMPLING METHODOLOGY

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

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

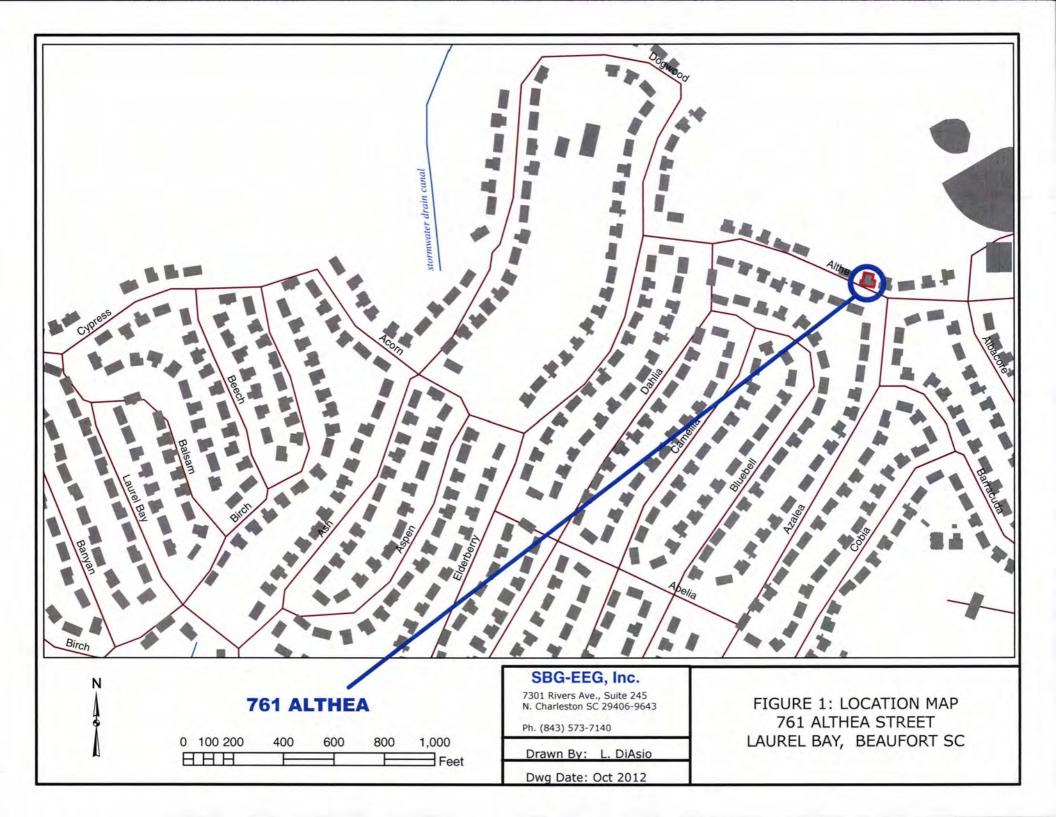
# XII. RECEPTORS

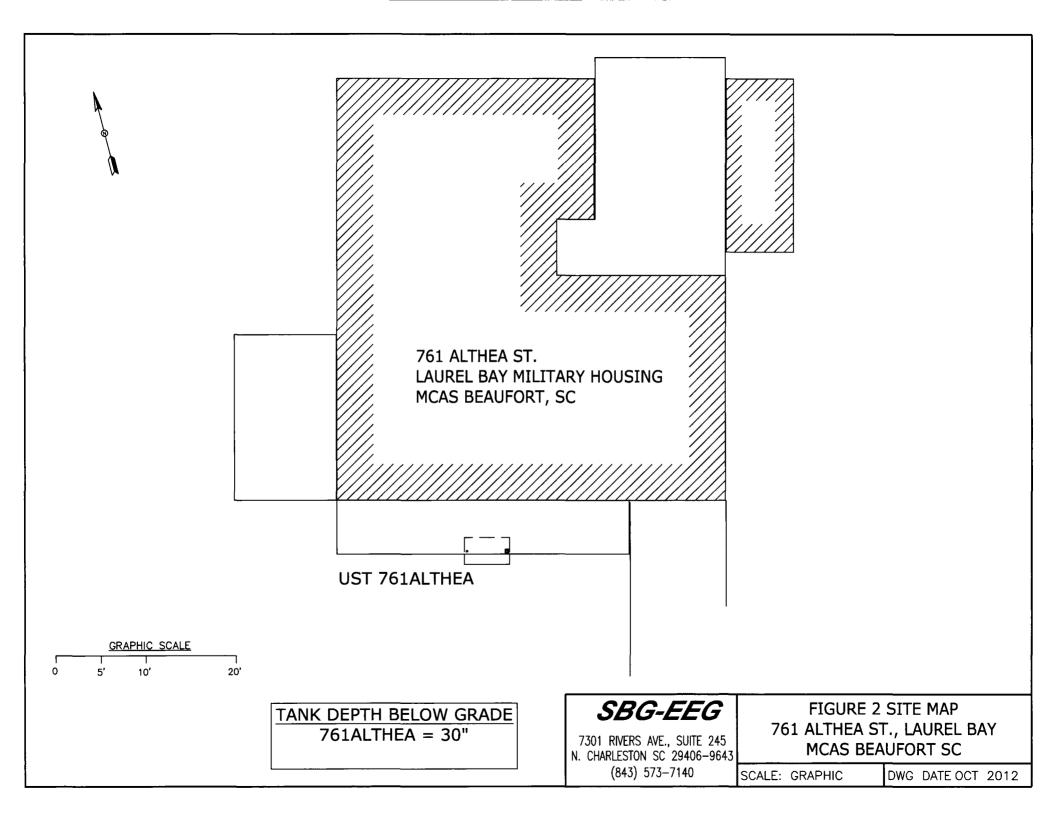
		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?		Х
	If yes, indicate type of receptor, distance, and direction on site map.	!	
В.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		Х
	If yes, indicate 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?		X
	If yes, indicate type of structure, distance, and direction on site map.		
D.	Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination?  *Sewer, water, electric cable & fiber optic	*X	
	If yes, indicate the type of utility, distance, and direction on the site map.		
E.	Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete?		Х
	If yes, indicate the area of contaminated soil on the site map.		

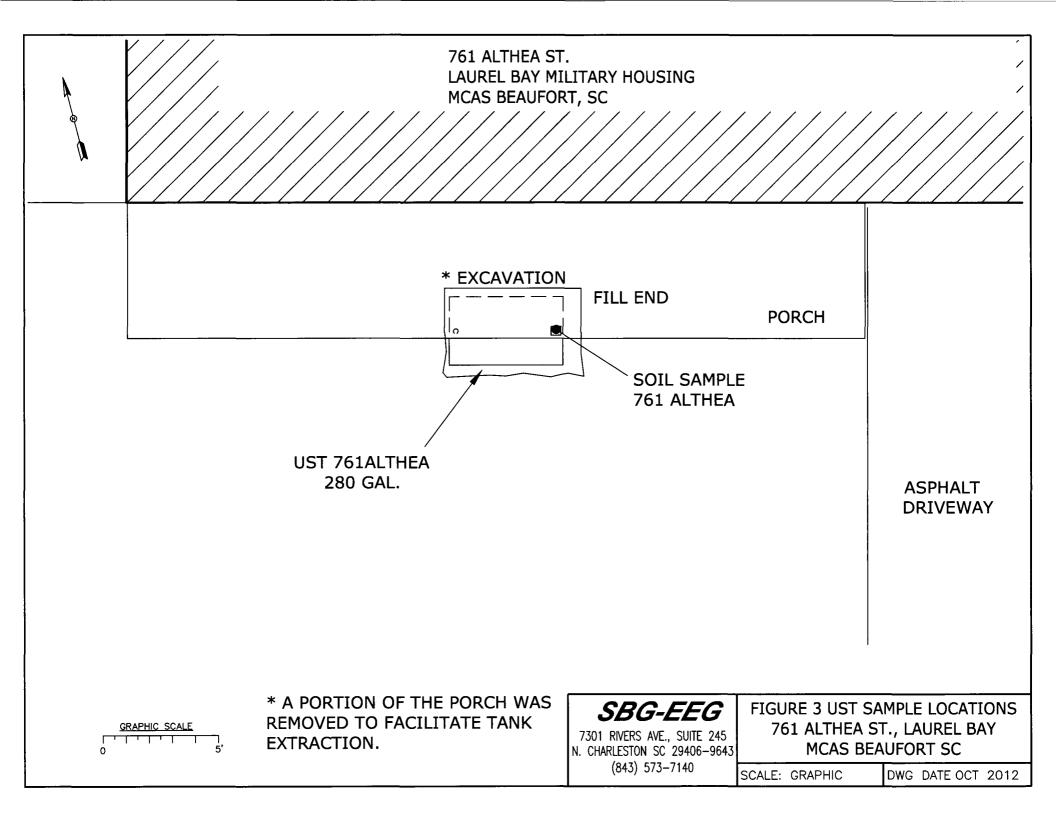
# XIII. SITE MAP

You must supply a <u>scaled</u> site map. It should include all buildings, road names, utilities, tank and dispenser island locations, labeled sample locations, extent of excavation, and any other pertinent information.

(Attach Site Map Here)









Picture 1: Location of UST 761Althea.



Picture 2: UST 761Althea 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.

		B 101 WIL			<u> </u>	<del>                                     </del>
CoC UST	761Althea					<del>                                     </del>
Benzene	ND					
Toluene	ND					
Ethylbenzene	ND					
Xylenes	ND	_				
Naphthalene	ND		_			
Benzo (a) anthracene	ND					
Benzo (b) fluoranthene	ND					
Benzo (k) fluoranthene	ND					
Chrysene	ND					
Dibenz (a, h) anthracene	ND					
TPH (EPA 3550)		i				
СоС				 <u>.</u>		
Benzene						
Toluene				 		
Ethylbenzene				 		
Xylenes						
Naphthalene						
Benzo (a) anthracene						
Benzo (b) fluoranthene						
Benzo (k) fluoranthene						
Chrysene						
Dibenz (a, h) anthracene						
TPH (EPA 3550)						

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

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

# XV. ANALYTICAL RESULTS

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

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

# **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: 490-7486-1

Client Project/Site: Laurel Bay Housing Project

Revision: 1

For:

**Environmental Enterprise Group** 10179 Highway 78 Ladson, South Carolina 29456

Attn: Mr. Tom McElwee

Kuth Haye

Authorized for release by: 10/20/2012 3:33:33 PM

Ken Hayes Project Manager I

ken.hayes@testamericainc.com

LINKS

**Review your project** results through

Have a Question?



Visit us at: www.testamericainc.com

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

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

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

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

**Table of Contents** 

Cover Page	1
Table of Contents	2
Sample Summary	3
Case Narrative	4
Definitions	5
Client Sample Results	6
QC Sample Results	10
QC Association	16
Chronicle	18
Method Summary	19
Certification Summary	20
Chain of Custody	21
Receipt Checklists	23

10

11

13

# Sample Summary

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

TestAmerica Job ID: 490-7486-1

2

Lab Sample ID Client Sample ID		Matrix	Collected	Received	
490-7486-1	761 Althea	Solid	09/17/12 13:45	09/25/12 08:45	
490-7486-2	1173 Bobwhite	Solid	09/18/12 14:45	09/25/12 08:45	
490-7486-3	1415 Albatross	Solid	09/19/12 14:15	09/25/12 08:45	
490-7486-4	1355 Cardinal	Solid	09/20/12 13:55	09/25/12 08:45	

3

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13

#### **Case Narrative**

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

3

Job ID: 490-7486-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-7486-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/25/2012 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.9° C.

Revised Report: To report 1-Methylnaphthalene and 2-Methylnaphthalene by 8270D per client request. This report replaces the one generated on 10/06/12 @ 1939.

#### GC/MS VOA

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 23421.

No other analytical or quality issues were noted.

#### GC/MS Semi VOA

Method(s) 8270D: Matrix spikes for batch 24061 could not be recovered due to sample matrix interferences which required sample dilution. The associated laboratory control sample (LCS) met acceptance criteria.

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 10/20/2012

# **Definitions/Glossary**

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

#### Qualifiers

# GC/MS VOA

Qualifier Qualifier Description

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

#### GC/MS Semi VOA

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

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

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

# 72

#### Glossary

RPD

TEF

TEQ

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

# **Client Sample Results**

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

Lab Sample ID: 490-7486-1

Matrix: Solid

Percent Solids: 86.6

Client	Sample	ID: 761	Althea
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Date Collected: 09/17/12 13:45 Date Received: 09/25/12 08:45

**Percent Solids** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00221	0.000741	mg/Kg	32	09/25/12 17:31	09/27/12 14:25	1
Ethylbenzene	ND		0.00221	0.000741	mg/Kg	12	09/25/12 17:31	09/27/12 14:25	1
Naphthalene	ND		0.00553	0.00188	mg/Kg	Ø	09/25/12 17:31	09/27/12 14:25	1
Toluene	ND		0.00221	0.000818	mg/Kg	n	09/25/12 17:31	09/27/12 14:25	1
Xylenes, Total	ND		0.00553	0.000741	mg/Kg	12	09/25/12 17:31	09/27/12 14:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130				09/25/12 17:31	09/27/12 14:25	1
4-Bromofluorobenzene (Surr)	114		70 - 130				09/25/12 17:31	09/27/12 14:25	1
Dibromofluoromethane (Surr)	95		70 - 130				09/25/12 17:31	09/27/12 14:25	1
Toluene-d8 (Surr)	106		70 - 130				09/25/12 17:31	09/27/12 14:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0627	0.00936	mg/Kg	n	09/28/12 14:32	09/30/12 04:23	1
Acenaphthylene	ND		0.0627	0.00842	mg/Kg	22	09/28/12 14:32	09/30/12 04:23	1
Anthracene	ND		0.0627	0.00842	mg/Kg	323	09/28/12 14:32	09/30/12 04:23	1
Benzo[a]anthracene	ND		0.0627	0.0140	mg/Kg	12	09/28/12 14:32	09/30/12 04:23	1
Benzo[a]pyrene	ND		0.0627	0.0112	mg/Kg	x	09/28/12 14:32	09/30/12 04:23	1
Benzo[b]fluoranthene	ND		0.0627	0.0112	mg/Kg	n	09/28/12 14:32	09/30/12 04:23	1
Benzo[g,h,i]perylene	ND		0.0627	0.00842	mg/Kg	n	09/28/12 14:32	09/30/12 04:23	1
Benzo[k]fluoranthene	ND		0.0627	0.0131	mg/Kg	22	09/28/12 14:32	09/30/12 04:23	1
Pyrene	ND		0.0627	0.0112	mg/Kg	n	09/28/12 14:32	09/30/12 04:23	1
Phenanthrene	ND		0.0627	0.00842	mg/Kg	n	09/28/12 14:32	09/30/12 04:23	1
Chrysene	ND		0.0627	0.00842	mg/Kg	×	09/28/12 14:32	09/30/12 04:23	1
Dibenz(a,h)anthracene	ND		0.0627	0.00655	mg/Kg	n	09/28/12 14:32	09/30/12 04:23	1
Fluoranthene	ND		0.0627	0.00842	mg/Kg	122	09/28/12 14:32	09/30/12 04:23	1
Fluorene	ND		0.0627	0.0112	mg/Kg	32	09/28/12 14:32	09/30/12 04:23	1
Indeno[1,2,3-cd]pyrene	ND		0.0627	0.00936	mg/Kg	n	09/28/12 14:32	09/30/12 04:23	1
Naphthalene	ND		0.0627	0.00842	mg/Kg	n	09/28/12 14:32	09/30/12 04:23	1
2-Methylnaphthalene	ND		0.0627	0.0150	mg/Kg	n	09/28/12 14:32	09/30/12 04:23	1
1-Methylnaphthalene	ND		0.0627	0.0131	mg/Kg	n	09/28/12 14:32	09/30/12 04:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	60		29 - 120				09/28/12 14:32	09/30/12 04:23	1
Terphenyl-d14 (Surr)	91		13 - 120				09/28/12 14:32	09/30/12 04:23	1
Nitrobenzene-d5 (Surr)	50		27 - 120				09/28/12 14:32	09/30/12 04:23	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

0.10

0.10 %

09/26/12 10:19

# **Client Sample Results**

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

Client Sample ID: 1173 Bobwhite

Date Collected: 09/18/12 14:45

**General Chemistry** 

Analyte

**Percent Solids** 

TestAmerica Job ID: 490-7486-1

Lab Sample ID: 490-7486-2

Matrix: Solid Percent Solids: 82.8

ate Received: 09/25/12 08:45								Percent Soli	ds: 82.8
Method: 8260B - Volatile Orga	nic Compounds	(GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00254	0.000850	mg/Kg	n	09/25/12 17:31	09/27/12 14:55	1
Ethylbenzene	ND		0.00254	0.000850	mg/Kg	n	09/25/12 17:31	09/27/12 14:55	1
Naphthalene	ND		0.00635	0.00216	mg/Kg	×	09/25/12 17:31	09/27/12 14:55	1
Toluene	ND		0.00254	0.000939	mg/Kg	D.	09/25/12 17:31	09/27/12 14:55	1
Xylenes, Total	0.00304	J	0.00635	0.000850	mg/Kg	а	09/25/12 17:31	09/27/12 14:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130				09/25/12 17:31	09/27/12 14:55	1
4-Bromofluorobenzene (Surr)	115		70 - 130				09/25/12 17:31	09/27/12 14:55	1
Dibromofluoromethane (Surr)	94		70 - 130				09/25/12 17:31	09/27/12 14:55	1
Toluene-d8 (Surr)	104		70 - 130				09/25/12 17:31	09/27/12 14:55	1
Method: 8270D - Semivolatile	Organic Compou	nds (GC/MS	S)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0652	0.00973	mg/Kg	101	09/28/12 14:32	09/30/12 04:45	1
Acenaphthylene	ND		0.0652	0.00876	mg/Kg	13	09/28/12 14:32	09/30/12 04:45	1
Anthracene	0.0477	J	0.0652	0.00876	mg/Kg	12	09/28/12 14:32	09/30/12 04:45	1
Benzo[a]anthracene	0.341		0.0652	0.0146	mg/Kg	D	09/28/12 14:32	09/30/12 04:45	1
Benzo[a]pyrene	0.201		0.0652	0.0117	mg/Kg	D	09/28/12 14:32	09/30/12 04:45	1
Benzo[b]fluoranthene	0.439		0.0652	0.0117	mg/Kg	13	09/28/12 14:32	09/30/12 04:45	1
Benzo[g,h,i]perylene	0.168		0.0652	0.00876	mg/Kg	12	09/28/12 14:32	09/30/12 04:45	1
Benzo[k]fluoranthene	0.174		0.0652	0.0136	mg/Kg	32	09/28/12 14:32	09/30/12 04:45	1
Pyrene	0.905		0.0652	0.0117	mg/Kg	Ø	09/28/12 14:32	09/30/12 04:45	1
Phenanthrene	0.156		0.0652	0.00876	mg/Kg	Ħ	09/28/12 14:32	09/30/12 04:45	1
Chrysene	0.505		0.0652	0.00876	mg/Kg	n	09/28/12 14:32	09/30/12 04:45	. 1
Dibenz(a,h)anthracene	0.0677		0.0652	0.00681	mg/Kg	0	09/28/12 14:32	09/30/12 04:45	1
Fluoranthene	0.612		0.0652	0.00876	mg/Kg	D	09/28/12 14:32	09/30/12 04:45	1
Fluorene	ND		0.0652	0.0117	mg/Kg	a	09/28/12 14:32	09/30/12 04:45	1
Indeno[1,2,3-cd]pyrene	0.177		0.0652	0.00973	mg/Kg	¤	09/28/12 14:32	09/30/12 04:45	1
Naphthalene	ND		0.0652	0.00876	mg/Kg	n	09/28/12 14:32	09/30/12 04:45	1
2-Methylnaphthalene	ND		0.0652	0.0156	mg/Kg	12	09/28/12 14:32	09/30/12 04:45	1
1-Methylnaphthalene	ND		0.0652	0.0136	mg/Kg	D	09/28/12 14:32	09/30/12 04:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	57		29 - 120				09/28/12 14:32	09/30/12 04:45	1
Terphenyl-d14 (Surr)	87		13 - 120				09/28/12 14:32	09/30/12 04:45	1
Nitrobenzene-d5 (Surr)	51		27 - 120				09/28/12 14:32	09/30/12 04:45	1

Analyzed

09/26/12 15:52

Dil Fac

RL

0.10

Result Qualifier

83

RL Unit

0.10 %

Prepared

# **Client Sample Results**

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

Client Sample ID: 1415 Albatross

Date Collected: 09/19/12 14:15

Date Received: 09/25/12 08:45

TestAmerica Job ID: 490-7486-1

Lab Sample ID: 490-74

Percent Solids: 89.3

Matrix:

86-3	
Solid	

	•	
2	9	

		6	3		
-	-	-	•	7	•











Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00179	0.000600	mg/Kg	33	09/25/12 17:31	09/27/12 15:25	1
Ethylbenzene	ND		0.00179	0.000600	mg/Kg	372	09/25/12 17:31	09/27/12 15:25	1
Naphthalene	ND		0.00448	0.00152	mg/Kg	×	09/25/12 17:31	09/27/12 15:25	1
Toluene	0.000783	J	0.00179	0.000663	mg/Kg	×	09/25/12 17:31	09/27/12 15:25	1
Xylenes, Total	ND		0.00448	0.000600	mg/Kg	Ħ	09/25/12 17:31	09/27/12 15:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130				09/25/12 17:31	09/27/12 15:25	1
4-Bromofluorobenzene (Surr)	109		70 - 130				09/25/12 17:31	09/27/12 15:25	1
Dibromofluoromethane (Surr)	93		70 - 130				09/25/12 17:31	09/27/12 15:25	1
Toluene-d8 (Surr)	102		70 - 130				09/25/12 17:31	09/27/12 15:25	1
Method: 8270D - Semivolatile C	Organic Compou	nds (GC/M	S)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0646	0.00964	mg/Kg	a	09/28/12 14:32	09/30/12 05:07	1
Acenaphthylene	ND		0.0646	0.00867	mg/Kg	n	09/28/12 14:32	09/30/12 05:07	1
Anthracene	ND		0.0646	0.00867	mg/Kg	n	09/28/12 14:32	09/30/12 05:07	1
Benzo[a]anthracene	0.0342	J	0.0646	0.0145	mg/Kg	D	09/28/12 14:32	09/30/12 05:07	1
Benzo[a]pyrene	0.0391	J	0.0646	0.0116	mg/Kg	in.	09/28/12 14:32	09/30/12 05:07	4
Benzo[b]fluoranthene	0.0329	J	0.0646	0.0116	mg/Kg	D.	09/28/12 14:32	09/30/12 05:07	1
Benzo[g,h,i]perylene	0.0734		0.0646	0.00867	mg/Kg	322	09/28/12 14:32	09/30/12 05:07	1
Benzo[k]fluoranthene	ND		0.0646	0.0135	mg/Kg	13	09/28/12 14:32	09/30/12 05:07	1
Pyrene	0.0539	J	0.0646	0.0116	mg/Kg	α	09/28/12 14:32	09/30/12 05:07	1
Phenanthrene	ND		0.0646	0.00867	mg/Kg	100	09/28/12 14:32	09/30/12 05:07	1
Chrysene	0.0417	J	0.0646	0.00867	mg/Kg	O	09/28/12 14:32	09/30/12 05:07	1
Dibenz(a,h)anthracene	ND		0.0646	0.00675	mg/Kg	a	09/28/12 14:32	09/30/12 05:07	1
Fluoranthene	0.0797		0.0646	0.00867	mg/Kg	n	09/28/12 14:32	09/30/12 05:07	1
Fluorene	ND		0.0646	0.0116	mg/Kg	100	09/28/12 14:32	09/30/12 05:07	1
Indeno[1,2,3-cd]pyrene	0.0679		0.0646	0.00964	mg/Kg	123	09/28/12 14:32	09/30/12 05:07	1
Naphthalene	ND		0.0646	0.00867	mg/Kg	×	09/28/12 14:32	09/30/12 05:07	1
2-Methylnaphthalene	ND		0.0646	0.0154	mg/Kg	172	09/28/12 14:32	09/30/12 05:07	1
1-Methylnaphthalene	ND		0.0646	0.0135	mg/Kg	a	09/28/12 14:32	09/30/12 05:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	53		29 - 120				09/28/12 14:32	09/30/12 05:07	1
Terphenyl-d14 (Surr)	78		13 - 120				09/28/12 14:32	09/30/12 05:07	1
Nitrobenzene-d5 (Surr)	46		27 - 120				09/28/12 14:32	09/30/12 05:07	1
General Chemistry	27.00	2-12							
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

# **Client Sample Results**

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

Client Sample ID: 1355 Cardinal

Date Collected: 09/20/12 13:55 Date Received: 09/25/12 08:45

**General Chemistry** 

Analyte

**Percent Solids** 

Lab Sample ID: 490-7486-4

Matrix: Solid Percent Solids: 90.5


Method: 8260B - Volatile Orga Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00227	0.000760	mg/Kg	Ø	09/25/12 17:31	09/27/12 15:55	1
Ethylbenzene	ND		0.00227	0.000760	mg/Kg	***	09/25/12 17:31	09/27/12 15:55	1
Naphthalene	ND		0.00567	0.00193	mg/Kg	**	09/25/12 17:31	09/27/12 15:55	1
Toluene	0.000965	J	0.00227	0.000840	mg/Kg	**	09/25/12 17:31	09/27/12 15:55	1
Xylenes, Total	ND		0.00567	0.000760	mg/Kg	æ	09/25/12 17:31	09/27/12 15:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 130				09/25/12 17:31	09/27/12 15:55	1
4-Bromofluorobenzene (Surr)	111		70 - 130				09/25/12 17:31	09/27/12 15:55	1
Dibromofluoromethane (Surr)	93		70 - 130				09/25/12 17:31	09/27/12 15:55	1
Toluene-d8 (Surr)	100		70 - 130				09/25/12 17:31	09/27/12 15:55	1
Method: 8270D - Semivolatile	Organic Compou	nds (GC/MS	S)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0661	0.00986	mg/Kg	n	10/04/12 12:43	10/05/12 14:19	1
Acenaphthylene	ND		0.0661	0.00888	mg/Kg	TO TO	10/04/12 12:43	10/05/12 14:19	1
Anthracene	ND		0.0661	0.00888	mg/Kg	X	10/04/12 12:43	10/05/12 14:19	1
Benzo[a]anthracene	ND		0.0661	0.0148	mg/Kg	D	10/04/12 12:43	10/05/12 14:19	1
Benzo[a]pyrene	ND		0.0661	0.0118	mg/Kg	Ħ	10/04/12 12:43	10/05/12 14:19	1
Benzo[b]fluoranthene	ND		0.0661	0.0118	mg/Kg	菜	10/04/12 12:43	10/05/12 14:19	1
Benzo[g,h,i]perylene	ND		0.0661	0.00888	mg/Kg	22	10/04/12 12:43	10/05/12 14:19	1
Benzo[k]fluoranthene	ND		0.0661	0.0138	mg/Kg	33	10/04/12 12:43	10/05/12 14:19	1
Pyrene	ND		0.0661	0.0118	mg/Kg	**	10/04/12 12:43	10/05/12 14:19	1
Phenanthrene	ND		0.0661	0.00888	mg/Kg	X	10/04/12 12:43	10/05/12 14:19	1
Chrysene	ND		0.0661	0.00888	mg/Kg	13	10/04/12 12:43	10/05/12 14:19	1
Dibenz(a,h)anthracene	ND		0.0661	0.00690	mg/Kg	333	10/04/12 12:43	10/05/12 14:19	1
Fluoranthene	ND		0.0661	0.00888	mg/Kg	33	10/04/12 12:43	10/05/12 14:19	1
Fluorene	ND		0.0661	0.0118	mg/Kg	325	10/04/12 12:43	10/05/12 14:19	1
Indeno[1,2,3-cd]pyrene	ND		0.0661	0.00986	mg/Kg	X	10/04/12 12:43	10/05/12 14:19	1
Naphthalene	ND		0.0661	0.00888	mg/Kg	322	10/04/12 12:43	10/05/12 14:19	1
2-Methylnaphthalene	ND		0.0661	0.0158	mg/Kg	32	10/04/12 12:43	10/05/12 14:19	1
1-Methylnaphthalene	ND		0.0661	0.0138	mg/Kg	22	10/04/12 12:43	10/05/12 14:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	59		29 - 120				10/04/12 12:43	10/05/12 14:19	1
Terphenyl-d14 (Surr)	66		13 - 120				10/04/12 12:43	10/05/12 14:19	1
Nitrobenzene-d5 (Surr)	56		27 - 120				10/04/12 12:43	10/05/12 14:19	1

Analyzed

09/26/12 15:52

Dil Fac

RL

0.10

RL Unit

0.10 %

Prepared

Result Qualifier

91

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

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

Lab Sample ID: MB 490-23421/6

Matrix: Solid

Analysis Batch: 23421

Client	Sample	ID:	Meth	od	Blank
	De	on T	Tuno:	To	AIA/IA

Prep Type: Total/NA

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			09/27/12 07:53	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			09/27/12 07:53	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			09/27/12 07:53	1
Toluene	ND		0.00200	0.000740	mg/Kg			09/27/12 07:53	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			09/27/12 07:53	1

MB MB				
%Recovery Qual	ifier Limits	Prepared Ar	alyzed	Dil Fac
101	70 - 130	09/27	/12 07:53	1
109	70 - 130	09/27	1/12 07:53	1
95	70 - 130	09/27	7/12 07:53	1
98	70 - 130	09/27	1/12 07:53	1
	101 109 95	101 70 - 130 109 70 - 130 95 70 - 130	101     70 - 130     09/27       109     70 - 130     09/27       95     70 - 130     09/27	101     70 - 130     09/27/12 07:53       109     70 - 130     09/27/12 07:53       95     70 - 130     09/27/12 07:53

Lab Sample ID: MB 490-23421/7

Matrix: Solid

Analysis Batch: 23421

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

	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.100	0.0335	mg/Kg			09/27/12 08:23	1
Ethylbenzene	ND		0.100	0.0335	mg/Kg			09/27/12 08:23	1
Naphthalene	ND		0.250	0.0850	mg/Kg			09/27/12 08:23	1
Toluene	ND		0.100	0.0370	mg/Kg			09/27/12 08:23	1
Xylenes, Total	ND		0.250	0.0335	mg/Kg			09/27/12 08:23	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		09/27/12 08:23	1
4-Bromofluorobenzene (Surr)	110		70 - 130		09/27/12 08:23	1
Dibromofluoromethane (Surr)	92		70 - 130		09/27/12 08:23	1
Toluene-d8 (Surr)	95		70 - 130		09/27/12 08:23	1

Lab Sample ID: LCS 490-23421/3

Matrix: Solid

Analysis Batch: 23421

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

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0500	0.04907		mg/Kg		98	75 - 127	
Ethylbenzene	0.0500	0.04776		mg/Kg		96	80 - 134	
Naphthalene	0.0500	0.06947		mg/Kg		139	69 - 150	
Toluene	0.0500	0.05085		mg/Kg		102	80 - 132	
Xylenes, Total	0.150	0.1407		mg/Kg		94	80 - 137	

	LCS LC	s	
Surrogate	%Recovery Qu	alifier Limits	
1,2-Dichloroethane-d4 (Surr)	100	70 - 130	
4-Bromofluorobenzene (Surr)	108	70 - 130	
Dibromofluoromethane (Surr)	102	70 - 130	•
Toluene-d8 (Surr)	98	70 - 130	

Project/Site: Laurel Bay Housing Project

Client: Environmental Enterprise Group

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

Lab Sample ID: LCSD 490-23421/4

Matrix: Solid

Analysis Batch: 23421

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.05044		mg/Kg		101	75 - 127	3	50
Ethylbenzene	0.0500	0.04939		mg/Kg		99	80 - 134	3	50
Naphthalene	0.0500	0.06362		mg/Kg		127	69 - 150	9	50
Toluene	0.0500	0.05164		mg/Kg		103	80 - 132	2	50
Xylenes, Total	0.150	0.1475		mg/Kg		98	80 - 137	NaN	50

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
Toluene-d8 (Surr)	100		70 - 130

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

Lab Sample ID: MB 490-24061/1-A

Matrix: Solid

Analysis Batch: 24362

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

Prep Batch: 24061

Analysis Datell. 24302	МВ	МВ						riep batci	1. 24001
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Anthracene	ND		0.0670	0.00900	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Pyrene	ND		0.0670	0.0120	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Chrysene	ND		0.0670	0.00900	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Fluorene	ND		0.0670	0.0120	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
	40	***							

ИΒ	MB
-	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	74	29 - 120	09/28/12 14:32	09/29/12 20:38	1
Terphenyl-d14 (Surr)	100	13 - 120	09/28/12 14:32	09/29/12 20:38	1
Nitrobenzene-d5 (Surr)	71	27 - 120	09/28/12 14:32	09/29/12 20:38	1

Lab Sample ID: LCS 490-24061/2-A

Matrix: Solid

Analysis Batch: 24362

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 24061

	Эріке	LUS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.67	1.636		mg/Kg		98	38 - 120

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

4

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

Lab Sample ID: LCS 490-24061/2-A

Matrix: Solid

Analysis Batch: 24362

Spike

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

Prep Batch: 24061

Spike

LCS LCS

\*Rec.

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Anthracene	1.67	1.680		mg/Kg		101	46 - 124
Benzo[a]anthracene	1.67	1.789		mg/Kg		107	45 - 120
Benzo[a]pyrene	1.67	1.679		mg/Kg		101	45 - 120
Benzo[b]fluoranthene	1.67	1.729		mg/Kg		104	42 - 120
Benzo[g,h,i]perylene	1.67	1.653		mg/Kg		99	38 - 120
Benzo[k]fluoranthene	1.67	1.569		mg/Kg		94	42 - 120
Pyrene	1.67	1.714		mg/Kg		103	43 - 120
Phenanthrene	1.67	1.590		mg/Kg		95	45 - 120
Chrysene	1.67	1.587		mg/Kg		95	43 - 120
Dibenz(a,h)anthracene	1.67	1.533		mg/Kg		92	32 - 128
Fluoranthene	1.67	1.652		mg/Kg		99	46 - 120
Fluorene	1.67	1.594		mg/Kg		96	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.550		mg/Kg		93	41 - 121
Naphthalene	1.67	1.469		mg/Kg		88	32 - 120
2-Methylnaphthalene	1.67	1.478		mg/Kg		89	28 - 120
1-Methylnaphthalene	1.67	1.441		mg/Kg		86	32 - 120

 Surrogate
 %Recovery
 Qualifier
 Limits

 2-Fluorobiphenyl (Surr)
 68
 29 - 120

 Terphenyl-d14 (Surr)
 92
 13 - 120

 Nitrobenzene-d5 (Surr)
 64
 27 - 120

Lab Sample ID: MB 490-25606/1-A

Matrix: Solid

Terphenyl-d14 (Surr)

Analysis Batch: 25878

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 25606

Analysis Daten. 25070	2.2	5.4						i leb batci	1. 25000
Analyte	MB Result		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Anthracene	ND		0.0670	0.00900	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Pyrene	ND		0.0670	0.0120	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Chrysene	ND		0.0670	0.00900	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Fluorene	ND		0.0670	0.0120	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
	МВ	мв							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	65		29 - 120				10/04/12 12:43	10/05/12 13:38	1

10/04/12 12:43 10/05/12 13:38

13 - 120

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

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

Lab Sample ID: MB 490-25606/1-A

Lab Sample ID: LCS 490-25606/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 25878

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25606

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac Nitrobenzene-d5 (Surr) 59 27 - 120 10/04/12 12:43 10/05/12 13:38

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25606

Analysis Batch: 25878 LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits 1.67 1.461 88 38 - 120 Acenaphthylene mg/Kg 1.67 1.456 87 46 - 124 Anthracene mg/Kg 1.67 1.449 45 - 120 87 Benzo[a]anthracene mg/Kg 1.67 1.603 mg/Kg 96 45 - 120 Benzo[a]pyrene 42 - 120 1.67 1.674 mg/Kg 100 Benzo[b]fluoranthene 38 - 120 1.438 86 1.67 Benzo[g,h,i]perylene mg/Kg Benzo[k]fluoranthene 1.67 1.451 mg/Kg 87 42 - 120 43 - 120 Pyrene 1.67 1.398 mg/Kg 84 45 - 120 1.67 1.432 86 Phenanthrene mg/Kg Chrysene 1.67 1.364 mg/Kg 82 43 - 120 Dibenz(a,h)anthracene 1.67 1.404 mg/Kg 84 32 - 128

1.482

1.493

1.441

1.463

1.353

1.266

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

89

90

86

88

81

76

46 - 120

42 - 120

41 - 121 32 - 120

28 - 120

32 - 120

1.67

1.67

1.67

1.67

1.67

1.67

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	61		29 - 120
Terphenyl-d14 (Surr)	71		13 - 120
Nitrobenzene-d5 (Surr)	60		27 - 120

Lab Sample ID: 490-7486-4 MS

Matrix: Solid

Fluoranthene

Naphthalene

Indeno[1,2,3-cd]pyrene

2-Methylnaphthalene

1-Methylnaphthalene

Fluorene

Analysis Batch: 25878

Client Sample ID: 1355 Cardinal

Prep Type: Total/NA

Prep Batch: 25606

Sample	Sample	Spike	MS	MS				%Rec.
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
ND		1.83	1.873		mg/Kg	12	102	25 - 120
ND		1.83	1.830		mg/Kg	ū	100	28 - 125
ND		1.83	1.772		mg/Kg	122	97	23 - 120
ND		1.83	2.001		mg/Kg	n	109	15 - 128
ND		1.83	1.976		mg/Kg	12	108	12 - 133
ND		1.83	1.831		mg/Kg	12	100	22 - 120
ND		1.83	1.768		mg/Kg	n	97	28 - 120
ND		1.83	1.696		mg/Kg	n	93	20 - 123
ND		1.83	1.793		mg/Kg	ū	98	21 - 122
ND		1.83	1.702		mg/Kg	n	93	20 - 120
ND		1.83	1.768		mg/Kg	Ø	97	12 - 128
ND		1.83	1.814		mg/Kg	Œ	99	10 - 143
ND		1.83	1.868		mg/Kg	***	102	20 - 120
ND		1.83	1.846		mg/Kg	-02	101	22 - 121
	Result ND	ND ND ND ND ND ND ND ND ND ND ND ND ND N	Result         Qualifier         Added           ND         1.83           ND         1.83	Result         Qualifier         Added         Result           ND         1.83         1.873           ND         1.83         1.772           ND         1.83         2.001           ND         1.83         1.976           ND         1.83         1.831           ND         1.83         1.768           ND         1.83         1.793           ND         1.83         1.702           ND         1.83         1.768           ND         1.83         1.768           ND         1.83         1.814           ND         1.83         1.814           ND         1.83         1.868	Result         Qualifier         Added         Result         Qualifier           ND         1.83         1.873           ND         1.83         1.772           ND         1.83         2.001           ND         1.83         1.976           ND         1.83         1.831           ND         1.83         1.768           ND         1.83         1.793           ND         1.83         1.793           ND         1.83         1.768           ND         1.83         1.768           ND         1.83         1.814           ND         1.83         1.814           ND         1.83         1.814           ND         1.83         1.868	Result         Qualifier         Added         Result         Qualifier         Unit           ND         1.83         1.873         mg/Kg           ND         1.83         1.830         mg/Kg           ND         1.83         1.772         mg/Kg           ND         1.83         2.001         mg/Kg           ND         1.83         1.976         mg/Kg           ND         1.83         1.831         mg/Kg           ND         1.83         1.768         mg/Kg           ND         1.83         1.793         mg/Kg           ND         1.83         1.702         mg/Kg           ND         1.83         1.768         mg/Kg           ND         1.83         1.768         mg/Kg           ND         1.83         1.768         mg/Kg           ND         1.83         1.814         mg/Kg           ND         1.83         1.814         mg/Kg           ND         1.83         1.868         mg/Kg	Result         Qualifier         Added         Result         Qualifier         Unit         D           ND         1.83         1.873         mg/Kg         mg	Result Qualifier         Added         Result Qualifier         Unit         D         %Rec           ND         1.83         1.873         mg/Kg         0         102           ND         1.83         1.830         mg/Kg         0         100           ND         1.83         1.772         mg/Kg         0         97           ND         1.83         2.001         mg/Kg         0         109           ND         1.83         1.976         mg/Kg         0         108           ND         1.83         1.831         mg/Kg         0         100           ND         1.83         1.768         mg/Kg         0         97           ND         1.83         1.793         mg/Kg         0         98           ND         1.83         1.702         mg/Kg         0         93           ND         1.83         1.768         mg/Kg         0         97           ND         1.83         1.768         mg/Kg         0         97           ND         1.83         1.814         mg/Kg         0         99           ND         1.83         1.814         mg/Kg         0

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

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

Lab Sample ID: 490-7486-4 MS

Matrix: Solid

Analysis Batch: 25878

Client Sample ID: 1355 Cardinal

Prep Type: Total/NA

Prep Batch: 25606

The second secon	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Naphthalene	ND		1.83	1.867		mg/Kg	n	102	10 - 120	
2-Methylnaphthalene	ND		1.83	1.718		mg/Kg	X	94	13 - 120	
1-Methylnaphthalene	ND		1.83	1.649		mg/Kg	32	90	10 - 120	

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	67		29 - 120
Terphenyl-d14 (Surr)	71	71	
Nitrobenzene-d5 (Surr)	73		27 - 120

Client Sample ID: 1355 Cardinal

Prep Type: Total/NA

Prep Batch: 25606

Lab Sample ID: 490-7486-4 MSD Matrix: Solid

Analysis Patch: 25070

Analysis Batch: 25878									Prep	Batch:	25000
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	ND		1.83	1.516		mg/Kg	22	83	25 - 120	21	50
Anthracene	ND		1.83	1.516		mg/Kg	23	83	28 - 125	19	49
Benzo[a]anthracene	ND		1.83	1.481		mg/Kg	100	81	23 - 120	18	50
Benzo[a]pyrene	ND		1.83	1.636		mg/Kg	325	90	15 - 128	20	50
Benzo[b]fluoranthene	ND		1.83	1.681		mg/Kg	325	92	12 - 133	16	50
Benzo[g,h,i]perylene	ND		1.83	1.509		mg/Kg	Œ	83	22 - 120	19	50
Benzo[k]fluoranthene	ND		1.83	1.427		mg/Kg	30	78	28 - 120	21	45
Pyrene	ND		1.83	1.407		mg/Kg	n	77	20 - 123	19	50
Phenanthrene	ND		1.83	1.489		mg/Kg	33	82	21 - 122	18	50
Chrysene	ND		1.83	1.384		mg/Kg	33	76	20 - 120	21	49
Dibenz(a,h)anthracene	ND		1.83	1.456		mg/Kg	a	80	12 - 128	19	50
Fluoranthene	ND		1.83	1.514		mg/Kg	125	83	10 - 143	18	50
Fluorene	ND		1.83	1.543		mg/Kg	327	85	20 - 120	19	50
Indeno[1,2,3-cd]pyrene	ND		1.83	1.490		mg/Kg	n	82	22 - 121	21	50
Naphthalene	ND		1.83	1.526		mg/Kg	32	84	10 - 120	20	50
2-Methylnaphthalene	ND		1.83	1.383		mg/Kg	101	76	13 - 120	22	50

MSD MSD

ND

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	57		29 - 120
Terphenyl-d14 (Surr)	60		13 - 120
Nitrobenzene-d5 (Surr)	56		27 - 120

#### Method: Moisture - Percent Moisture

Lab Sample ID: 360-42945-B-1 DU

Matrix: Solid

1-Methylnaphthalene

Analysis Batch: 23185

,, 5.0.	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Percent Solids	77		77		%		0.4	20

TestAmerica Nashville 10/20/2012

Client Sample ID: Duplicate

Prep Type: Total/NA

Page 14 of 23

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 490-7453-B-1 DU Client Sample ID: Duplicate

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 23333 DU DU RPD Sample Sample

Result Qualifier Result Qualifier Unit D RPD Limit Percent Solids 72

# **QC Association Summary**

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

#### GC/MS VOA

Prep Batch: 23054	Prep	Ba	tch:	230	)54
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-7486-1	761 Althea	Total/NA	Solid	5035	
490-7486-2	1173 Bobwhite	Total/NA	Solid	5035	
490-7486-3	1415 Albatross	Total/NA	Solid	5035	
490-7486-4	1355 Cardinal	Total/NA	Solid	5035	

# Analysis Batch: 23421

ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
190-7486-1	761 Althea	Total/NA	Solid	8260B	23054
190-7486-2	1173 Bobwhite	Total/NA	Solid	8260B	23054
190-7486-3	1415 Albatross	Total/NA	Solid	8260B	23054
190-7486-4	1355 Cardinal	Total/NA	Solid	8260B	23054
CS 490-23421/3	Lab Control Sample	Total/NA	Solid	8260B	
CSD 490-23421/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-23421/6	Method Blank	Total/NA	Solid	8260B	
MB 490-23421/7	Method Blank	Total/NA	Solid	8260B	



# GC/MS Semi VOA

#### Prep Batch: 24061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-7486-1	761 Althea	Total/NA	Solid	3550C	
490-7486-2	1173 Bobwhite	Total/NA	Solid	3550C	
490-7486-3	1415 Albatross	Total/NA	Solid	3550C	
LCS 490-24061/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-24061/1-A	Method Blank	Total/NA	Solid	3550C	

# Analysis Batch: 24362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-7486-1	761 Althea	Total/NA	Solid	8270D	24061
490-7486-2	1173 Bobwhite	Total/NA	Solid	8270D	24061
490-7486-3	1415 Albatross	Total/NA	Solid	8270D	24061
LCS 490-24061/2-A	Lab Control Sample	Total/NA	Solid	8270D	24061
MB 490-24061/1-A	Method Blank	Total/NA	Solid	8270D	24061

#### Prep Batch: 25606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-7486-4	1355 Cardinal	Total/NA	Solid	3550C	
490-7486-4 MS	1355 Cardinal	Total/NA	Solid	3550C	
490-7486-4 MSD	1355 Cardinal	Total/NA	Solid	3550C	
LCS 490-25606/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-25606/1-A	Method Blank	Total/NA	Solid	3550C	

#### Analysis Batch: 25878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-7486-4	1355 Cardinal	Total/NA	Solid	8270D	25606
490-7486-4 MS	1355 Cardinal	Total/NA	Solid	8270D	25606
490-7486-4 MSD	1355 Cardinal	Total/NA	Solid	8270D	25606
LCS 490-25606/2-A	Lab Control Sample	Total/NA	Solid	8270D	25606
MB 490-25606/1-A	Method Blank	Total/NA	Solid	8270D	25606

# **QC Association Summary**

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

### **General Chemistry**

Analysis Batch: 23185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-42945-B-1 DU	Duplicate	Total/NA	Solid	Moisture	
490-7486-1	761 Althea	Total/NA	Solid	Moisture	

#### Analysis Batch: 23333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-7453-B-1 DU	Duplicate	Total/NA	Solid	Moisture	
490-7486-2	1173 Bobwhite	Total/NA	Solid	Moisture	
490-7486-3	1415 Albatross	Total/NA	Solid	Moisture	
490-7486-4	1355 Cardinal	Total/NA	Solid	Moisture	

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#### Lab Chronicle

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

Н

Client Sample ID: 761 Althea

Date Collected: 09/17/12 13:45 Date Received: 09/25/12 08:45 Lab Sample ID: 490-7486-1

Matrix: Solid

Percent Solids: 86.6

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			23054	09/25/12 17:31	ML	TAL NSH
Total/NA	Analysis	8260B		1	23421	09/27/12 14:25	AF	TAL NSH
Total/NA	Prep	3550C			24061	09/28/12 14:32	PA	TAL NSH
Total/NA	Analysis	8270D		1	24362	09/30/12 04:23	JS	TAL NSH
Total/NA	Analysis	Moisture		1	23185	09/26/12 10:19	MT	TAL NSH

7

Client Sample ID: 1173 Bobwhite

Client Sample ID: 1415 Albatross

Date Collected: 09/19/12 14:15

Date Received: 09/25/12 08:45

Date Collected: 09/18/12 14:45 Date Received: 09/25/12 08:45 Lab Sample ID: 490-7486-2

Matrix: Solid

Percent Solids: 82.8

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			23054	09/25/12 17:31	ML	TAL NSH
Total/NA	Analysis	8260B		1	23421	09/27/12 14:55	AF	TAL NSH
Total/NA	Prep	3550C			24061	09/28/12 14:32	PA	TAL NSH
Total/NA	Analysis	8270D		1	24362	09/30/12 04:45	JS	TAL NSH
Total/NA	Analysis	Moisture		1	23333	09/26/12 15:52	MT	TAL NSH

2117

Lab Sample ID: 490-7486-3

Matrix: Solid

Percent Solids: 89.3

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			23054	09/25/12 17:31	ML	TAL NSH
Total/NA	Analysis	8260B		1	23421	09/27/12 15:25	AF	TAL NSH
Total/NA	Prep	3550C			24061	09/28/12 14:32	PA	TAL NSH
Total/NA	Analysis	8270D		1	24362	09/30/12 05:07	JS	TAL NSH
Total/NA	Analysis	Moisture		1	23333	09/26/12 15:52	MT	TAL NSH

Client Sample ID: 1355 Cardinal

Date Collected: 09/20/12 13:55 Date Received: 09/25/12 08:45 Lab Sample ID: 490-7486-4

Matrix: Solid

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			23054	09/25/12 17:31	ML	TAL NSH
Total/NA	Analysis	8260B		1	23421	09/27/12 15:55	AF	TAL NSH
Total/NA	Prep	3550C			25606	10/04/12 12:43	AK	TAL NSH
Total/NA	Analysis	8270D		1	25878	10/05/12 14:19	ws	TAL NSH
Total/NA	Analysis	Moisture		1	23333	09/26/12 15:52	MT	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: 490-7486-1

2.5

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

4

#### 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

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# **Certification Summary**

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

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### Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-12
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAC	9	1168CA	10-31-12
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Colorado	State Program	8	N/A	02-28-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAC	4	E87358	06-30-13
Ilinois	NELAC	5	200010	12-09-12
lowa	State Program	7	131	05-01-14
Kansas	NELAC	7	E-10229	10-31-12
Kentucky	State Program	4	90038	12-31-12
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAC	6	LA110014	12-31-12
Louisiana	NELAC	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAC	5	047-999-345	12-31-12
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	NELAC	1	2963	10-09-13
New Jersey	NELAC	2	TN965	06-30-13
New York	NELAC	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-12
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-13
Oregon	NELAC	10	TN200001	04-30-13
Pennsylvania	NELAC	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-12
South Carolina	State Program	4	84009 (001)	02-28-13
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAC	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAC	8	TAN	06-30-13
Virginia	NELAC	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-13
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

#### COOLER RECEIPT FORM



1. Tracking # 3746 (I		its, FedEx)				
Courier: FedEx IR Gun ID 94660220						
2. Temperature of rep. sample or temp bla	ank whe	n opened:_	4.9 De	grees Celsiu	is	
3. If Item #2 temperature is 0°C or less, wa				r temp blank	frozen?	YES NO. (NA)
4. Were custody seals on outside of coole						YES).NONA
If yes, how many and where: (2) Freo	11/Bo	rek				
5. Were the seals intact, signed, and dated	correct	ly?				(ES).NONA
6. Were custody papers inside cooler?						YES NONA
I certify that I opened the cooler and answer	ered que	stions 1-6 (	intial)			(W)
7. Were custody seals on containers:		YES	No	and Intac	t	YESNO(NA)
Were these signed and dated correctly?	0		0			YESNO. NA
8. Packing mat'l used? Bubblewrap Plas	tic bag	Peanuts V	ermiculite	Foam Inse	rt Paper	Other None
9. Cooling process:	(6)	Ice-pack	Ice (dire	ct contact)	Dry ice	Other None
10. Did all containers arrive in good condit	tion (unb	roken)?				(ES)NONA
11. Were all container labels complete (#,	date, sig	ned, pres.,	etc)?			ESNONA
12. Dld all container labels and tags agree	with cus	stody paper	s7			ESNONA
13a. Were VOA vials received?						YESNONA
b. Was there any observable headspace	present	in any VOA	vial?			YES. (NO)NA
14. Was there a Trip Blank in this cooler?	YES	NO. (NA	) If mult	iple coolers,	sequenc	e# NA
I certify that I unloaded the cooler and answ	vered qu	estions 7-1	4 (intial)		EF	-
15a. On pres'd bottles, did pH test strips s	uaaest n	reservation	reached t	he correct p	H level?	YES NO NA

b. Did the bottle labels indicate that the correct preservatives were used

(ES)..NO...NA YES...NO.T.NA

16. Was residual chlorine present?

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)

17. Were custody papers properly filled out (ink, signed, etc)?

FES...NO...NA

18. Did you sign the custody papers in the appropriate place?

YES ... NO ... NA

19. Were correct containers used for the analysis requested?

YES ... NO ... NA

20. Was sufficient amount of sample sent in each container?

YES ... NO ... NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial)

I certify that I attached a label with the unique LIMS number to each container (intial)

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#

	Rélinquished by/	Relinquished by S	Special Instructions:						100	10 DOOMATK	117.382hishida 9h	761 A/HEA 9/1:	Sample ID / Description		Sampler Signature:	Sampler Name: (Print)	Telephone Number: 843,412,2097	Project Manager: Tom M	City/State/Zip: Ladson, SC 29456	Address: 10179 Highway 78	Client Name/Account #: EEG - SBG # 2449	THE GEADER IN ENVIRONMENTAL TESTING
	Date Time Rope	Date Time Received 1 24/12 0830 /						12/12/108	1200	1	1 -> why all	1/2 1345 6 X	Date Sampled Time Sampled No. of Containers Shipped Grab Composite	1	W/W	RAH SHAW	22097	Project Manager: Tom McElwee email: mcelwee@eeginc.net	SC 29456	lighway 78	3BG # 2449	Nashville Division 2960 Foster Creighton Nashville, TN 37204
,	ric Alberta Hay TAN 9-	Received by:	Method of Shipment:					8				2 21	Field Filtered  Ice  HNO <sub>3</sub> (Red Label)  H61 (eliter sabel)  H250 <sub>4</sub> Piastic (Yellow Label)  H250 <sub>4</sub> Glasa(Yellow Label)  None (Black Label)  Other (Specify)	Reservative	4		Fax No.: 843-87-040					Phone: 615-726-0177 Toll Free: 800-765-0980 Fax: 615-726-3404
	6.4 74.9 E1-22-6	Time	Laboratory Comments: Temperature Upo FEDEX VOCs Free of Hea					7		\$ \times \times	-	\ \ \ \ \   \	Drinking Water Sludge Soil Other (specify): BTEX + Napth - 8260E PAH - 8270D	Matrix	Project #:	Project ID: Laurel Bay Housing Project	TA Quote #:	-	Site State: SC			To assist us in using t methods, is this work regulatory purposes?
			story Comments: Temperature Upon Receipt: VOCs Free of Headspace?											Analyze For:		ousing Project		063		Enforcement Action? Yes_	Compliance Monitoring? Yes_	To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
			4	7		_	H	+	+	+	+		RUSH TAT (Pre-Schedule)							No	No	

7486

Answer

Comment

Client: Environmental Enterprise Group

Job Number: 490-7486-1

Login Number: 7486

List Source: TestAmerica Nashville

List Number: 1

Creator: Abernathy, Eric

Question Radioactivity wasn't checked or is </= background as measured by a survey meter.

The cooler's custody seal, if present, is intact.

Sample custody seals, if present, are intact.

The cooler or samples do not appear to have been compromised or tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present.

COC is filled out in ink and legible.

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received and the COC.

Samples are received within Holding Time.

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs

Containers requiring zero headspace have no headspace or bubble is

<6mm (1/4").

Multiphasic samples are not present.

Samples do not require splitting or compositing.

Residual Chlorine Checked.

**TestAmerica Nashville** 

# ATTACHMENT A



# NC HAZARDOUS MANIFEST

1. Generator's US EPA ID N		ID No. M	No. Manifest Doc No.		2. Page 1 of			THE PARTY		
NON-HAZARDOUS MANIFEST					1					
3. Generator's Mailing Address:	Gener	rator's Site Address (If	different than mailin	e):	A. Manife	est Number		R.	310	
MCAS, BEAUFORT				61.	WMNA		00316	021		
LAUREL BAY HOUSING	Lan					NAME OF TAXABLE PARTY.	Generator's	APRIL MAN STATE		
BEAUFORT, SC 29907						b. State t	Generators	ID		
4. Generator's Phone 843-228	-6461			- 1000						
5. Transporter 1 Company Name	0401	6. US EPA I	D Number				-	22/14/20	SCI.	
3. Hansporter 2 company Hame		0.	- Hallinger		C State T	ransporter's II	D	1		
EEG, INC.	C.					C. State Transporter's ID D. Transporter's Phone 843-879-0411				
. Transporter 2 Company Name 8.		8. LIS FPA I	8. US EPA ID Number			E. State Transporter's ID				
	7. Transporter 2 Company Name 8.									
					F. Transporter's Phone					
9. Designated Facility Name and Site Ad	dress	10. US EPA	ID Number				S. Or Trees	mains		
HICKORY HILL LANDFILL					G. State Facility ID					
2621 LOW COUNTRY ROAD						acility Phone	843-0	843-987-4643		
RIDGELAND, SC 29936		The second second			n, state r	acility Priorie	043-3	07-404.	1000	
1110 GEE 1110, 30 23330										
11 Description of Marta Manager			12. Contain	ners	13. Total	14. Unit	1.44	isc. Commen		
11. Description of Waste Materials			No.	Туре	Quantity	Wt./Vol.	I. Mi	sc. commen		
a. HEATING OIL TANKS FILLED W	ITH SAND					No.				
					10200			IM		
WM Profile	# 102655SC			A SOL	0.00			Sea (I)		
b.										
WM Profile #				O. C.	Sep Mai		LOBUR		THE R	
c.										
				Day 1						
WM Profile #					338 451		P201511.7			
d.	7/10.00				- 100				7	
				A						
CARRIED SET IN									Dig.	
	Manager and Allert Annual Annu		V Dissertit				PERSONAL CONTRACTOR	2000	A STATE OF THE PARTY OF THE PAR	
J. Additional Descriptions for Materials	Listed Above		K. Disposal L	ocation						
			Cell				Level	2 2 2 2		
			Grid				LEVE!			
15. Special Handling Instructions and Ad	ditional Information	1	11 1-	115	DOUR	1 61	173 B	Bobw	1:40	
15. Special Handling Instructions and Ad	2) 431 Eld	KRbRRRY	1, 7/1	(6)	VOUL	9)	11-0	0000	- In the	
D728 Bluebell.	3/1336 Alb		877	1/1 A	14/200					
Purchase Order #	3110 1110	EMERGENCY CO	NTACT PHONE		THEM				Sill W	
		LIVIENGENCI CO	THE PERON	. 1.13	-	PER COLUMN TO THE PER COLUMN T				
16. GENERATOR'S CERTIFICATE:			AL OFF	251	1 11			a service		
I hereby certify that the above-described accurately described, classified and packa							eve been ful	ly and		
Printed Name	aged and are in prope	Signature "On beha		ig to appli	capie regu	iacions:	Month	Day	Year	
Sold Di	Cuesto	Signature On Della	1	. V			10	1	11	
17. Transporter 1 Acknowledgement of I	Receipt of Materials	10 Car 16 Land	. 10	1			1	133		
Printed Name Oc. 11/	1	Signature	1111	// _			Month	Day	Year	
PRATTS,	HAN	P	1 Col			1	19	1	10	
18. Transporter 2 Acknowledgement of I	Receipt of Materials					11/2	10	MINT		
Printed Name		Signature	THE REAL PROPERTY.	- 11			Month	Day	Year	
TOIL			0	10	1.36				-	
James Baldu	UIN	Tome	1 Ba	lalu	-	-	1 3		4	
19. Certificate of Final Treatment/Dispos										
I certify, on behalf of the above listed tre			edge, the above	e-describe	d waste w	as managed in	n complianc	e with all		
applicable laws, regulations, permits and			NUMBER OF STREET	V 1.10 X 9 X 9 X 10 X 10 X 10 X 10 X 10 X 10					THE REAL PROPERTY.	
20. Facility Owner or Operator: Certifica	ition of receipt of non-	Proposition and the	overed by this r	manifest.						
Printed Name	1-4	Signature		- 1	Ā		Month	Day	Year	
love Cottel	O	10	n	CO	ul	0	10	- (	12	
White-TREATMENT, STORAGE, DISPOSA	L FACILITY COPY	Blue- GENERATOR	#2 COPY		Ye.	llow- GENERA	TOR #1 COP	Y		

Gold- TRANSPORTER #1 COPY

Pink- FACILITY USE ONLY

# Appendix C Regulatory Correspondence





Catherine B. Templeton, Director

Prograting and presering the health of the public and the environment

May 15, 2014

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

RE: No Further Action

Laurel Bay Underground Storage Tank Assessment Reports for:

See attached sheet

Dear Mr. Drawdy,

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

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

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

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

Sincerely,

Kent Krieg

Department of Defense Corrective Action Section

Bureau of Land and Waste Management

South Carolina Department of Health and Environmental Control

Cc: Russell Berry (via email)

Craig Ehde (via email)



Catherine B. Templeton, Director

Promosting and protecting the health of the public and the environment

Attachment to:

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

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

219 Balsam       508 Laurel Bay         260 Beech Tank 1       510 Laurel Bay         260 Beech Tank 2       523 Laurel Bay         287 Birch       525 Laurel Bay         302 Ash       533 Laurel Bay         305 Ash       537 Laurel Bay         334 Ash       556 Dahlia         338 Ash Tank 1       557 Dahlia         338 Ash Tank 2       559 Dahlia         361 Aspen       562 Dahlia         371 Aspen       568 Dahlia         372 Aspen Tank 1       581 Aster         375 Aspen       584 Aster         385 Aspen       602 Dahlia         403 Elderberry       607 Dahlia         407 Elderberry       614 Dahlia         411 Elderberry       616 Dahlia         412 Elderberry       625 Dahlia         427 Elderberry       631 Dahlia         428 Elderberry       634 Dahlia         425 Elderberry       636 Camellia         435 Elderberry       666 Camellia         448 Laurel Bay       666 Camellia         490 Laurel Bay       669 Camellia	212 Balsam	503 Laurel Bay
260 Beech Tank 2       523 Laurel Bay         267 Birch       525 Laurel Bay         287 Birch       529 Laurel Bay         302 Ash       533 Laurel Bay         305 Ash       537 Laurel Bay         334 Ash       556 Dahlia         338 Ash Tank 1       557 Dahlia         338 Ash Tank 2       559 Dahlia         361 Aspen       562 Dahlia         371 Aspen       568 Dahlia         372 Aspen Tank 1       581 Aster         372 Aspen Tank 2       582 Aster         375 Aspen       584 Aster         385 Aspen       602 Dahlia         403 Elderberry       607 Dahlia         407 Elderberry       614 Dahlia         411 Elderberry       615 Dahlia         412 Elderberry       629 Dahlia         421 Elderberry       629 Dahlia         422 Elderberry       631 Dahlia         423 Elderberry       634 Dahlia         424 Elderberry       634 Dahlia         425 Elderberry       660 Camellia         455 Elderberry       661 Camellia         484 Laurel Bay       666 Camellia	219 Balsam	508 Laurel Bay
267 Birch       525 Laurel Bay         287 Birch       529 Laurel Bay         302 Ash       533 Laurel Bay         305 Ash       537 Laurel Bay         334 Ash       556 Dahlia         338 Ash Tank 1       557 Dahlia         338 Ash Tank 2       559 Dahlia         361 Aspen       562 Dahlia         371 Aspen       568 Dahlia         372 Aspen Tank 1       581 Aster         372 Aspen Tank 2       582 Aster         375 Aspen       584 Aster         385 Aspen       602 Dahlia         403 Elderberry       607 Dahlia         407 Elderberry       614 Dahlia         411 Elderberry       616 Dahlia         414 Elderberry       619 Dahlia         415 Elderberry       625 Dahlia         427 Elderberry       631 Dahlia         428 Elderberry       634 Dahlia         431 Elderberry       660 Camellia         455 Elderberry       661 Camellia         455 Elderberry       661 Camellia         484 Laurel Bay       666 Camellia	260 Beech Tank 1	510 Laurel Bay
287 Birch       529 Laurel Bay         302 Ash       533 Laurel Bay         305 Ash       537 Laurel Bay         334 Ash       556 Dahlia         338 Ash Tank 1       557 Dahlia         338 Ash Tank 2       559 Dahlia         361 Aspen       562 Dahlia         371 Aspen       568 Dahlia         372 Aspen Tank 1       581 Aster         372 Aspen Tank 2       582 Aster         375 Aspen       584 Aster         385 Aspen       602 Dahlia         403 Elderberry       607 Dahlia         407 Elderberry       614 Dahlia         411 Elderberry       616 Dahlia         414 Elderberry       619 Dahlia         415 Elderberry       625 Dahlia         427 Elderberry       631 Dahlia         428 Elderberry       634 Dahlia         431 Elderberry       660 Camellia         455 Elderberry       661 Camellia         484 Laurel Bay       666 Camellia         490 Laurel Bay       669 Camellia	260 Beech Tank 2	523 Laurel Bay
302 Ash       533 Laurel Bay         305 Ash       537 Laurel Bay         334 Ash       556 Dahlia         338 Ash Tank 1       557 Dahlia         338 Ash Tank 2       559 Dahlia         361 Aspen       562 Dahlia         371 Aspen       568 Dahlia         372 Aspen Tank 1       581 Aster         372 Aspen Tank 2       582 Aster         375 Aspen       584 Aster         385 Aspen       602 Dahlia         403 Elderberry       607 Dahlia         407 Elderberry       614 Dahlia         411 Elderberry       616 Dahlia         414 Elderberry       625 Dahlia         421 Elderberry       629 Dahlia         422 Elderberry       631 Dahlia         423 Elderberry       634 Dahlia         431 Elderberry       660 Camellia         455 Elderberry       661 Camellia         484 Laurel Bay       666 Camellia         490 Laurel Bay       669 Camellia	267 Birch	525 Laurel Bay
305 Ash       537 Laurel Bay         334 Ash       556 Dahlia         338 Ash Tank 1       557 Dahlia         338 Ash Tank 2       559 Dahlia         361 Aspen       562 Dahlia         371 Aspen       568 Dahlia         372 Aspen Tank 1       581 Aster         372 Aspen Tank 2       582 Aster         375 Aspen       584 Aster         385 Aspen       602 Dahlia         403 Elderberry       607 Dahlia         407 Elderberry       614 Dahlia         411 Elderberry       616 Dahlia         414 Elderberry       625 Dahlia         421 Elderberry       629 Dahlia         422 Elderberry       631 Dahlia         423 Elderberry       634 Dahlia         431 Elderberry       660 Camellia         455 Elderberry       661 Camellia         484 Laurel Bay       666 Camellia         490 Laurel Bay       669 Camellia	287 Birch	529 Laurel Bay
334 Ash       556 Dahlia         338 Ash Tank 1       557 Dahlia         338 Ash Tank 2       559 Dahlia         361 Aspen       562 Dahlia         371 Aspen       568 Dahlia         372 Aspen Tank 1       581 Aster         372 Aspen Tank 2       582 Aster         375 Aspen       584 Aster         385 Aspen       602 Dahlia         403 Elderberry       607 Dahlia         407 Elderberry       614 Dahlia         411 Elderberry       616 Dahlia         414 Elderberry       619 Dahlia         415 Elderberry       625 Dahlia         421 Elderberry       629 Dahlia         427 Elderberry       631 Dahlia         428 Elderberry       634 Dahlia         431 Elderberry       660 Camellia         455 Elderberry       661 Camellia         484 Laurel Bay       666 Camellia         490 Laurel Bay       669 Camellia	302 Ash	533 Laurel Bay
338 Ash Tank 1       557 Dahlia         338 Ash Tank 2       559 Dahlia         361 Aspen       562 Dahlia         371 Aspen       568 Dahlia         372 Aspen Tank 1       581 Aster         372 Aspen Tank 2       582 Aster         375 Aspen       584 Aster         385 Aspen       602 Dahlia         403 Elderberry       607 Dahlia         407 Elderberry       614 Dahlia         411 Elderberry       616 Dahlia         414 Elderberry       619 Dahlia         415 Elderberry       625 Dahlia         421 Elderberry       629 Dahlia         427 Elderberry       631 Dahlia         428 Elderberry       634 Dahlia         431 Elderberry       660 Camellia         455 Elderberry       661 Camellia         484 Laurel Bay       666 Camellia         490 Laurel Bay       669 Camellia	305 Ash	537 Laurel Bay
338 Ash Tank 2       559 Dahlia         361 Aspen       562 Dahlia         371 Aspen       568 Dahlia         372 Aspen Tank 1       581 Aster         372 Aspen Tank 2       582 Aster         375 Aspen       584 Aster         385 Aspen       602 Dahlia         403 Elderberry       607 Dahlia         407 Elderberry       614 Dahlia         411 Elderberry       619 Dahlia         414 Elderberry       625 Dahlia         421 Elderberry       629 Dahlia         427 Elderberry       631 Dahlia         428 Elderberry       634 Dahlia         431 Elderberry       660 Camellia         455 Elderberry       661 Camellia         484 Laurel Bay       666 Camellia         490 Laurel Bay       669 Camellia	334 Ash	556 Dahlia
361 Aspen       562 Dahlia         371 Aspen       568 Dahlia         372 Aspen Tank 1       581 Aster         372 Aspen Tank 2       582 Aster         375 Aspen       584 Aster         385 Aspen       602 Dahlia         403 Elderberry       607 Dahlia         407 Elderberry       614 Dahlia         411 Elderberry       616 Dahlia         414 Elderberry       619 Dahlia         415 Elderberry       625 Dahlia         427 Elderberry       631 Dahlia         428 Elderberry       634 Dahlia         431 Elderberry       660 Camellia         455 Elderberry       661 Camellia         484 Laurel Bay       666 Camellia         490 Laurel Bay       669 Camellia	338 Ash Tank 1	557 Dahlia
371 Aspen       568 Dahlia         372 Aspen Tank 1       581 Aster         372 Aspen Tank 2       582 Aster         375 Aspen       584 Aster         385 Aspen       602 Dahlia         403 Elderberry       607 Dahlia         407 Elderberry       614 Dahlia         411 Elderberry       616 Dahlia         414 Elderberry       619 Dahlia         415 Elderberry       625 Dahlia         427 Elderberry       631 Dahlia         428 Elderberry       634 Dahlia         431 Elderberry       660 Camellia         455 Elderberry       661 Camellia         484 Laurel Bay       666 Camellia         490 Laurel Bay       669 Camellia	338 Ash Tank 2	559 Dahlia
372 Aspen Tank 1       581 Aster         372 Aspen Tank 2       582 Aster         375 Aspen       584 Aster         385 Aspen       602 Dahlia         403 Elderberry       607 Dahlia         407 Elderberry       614 Dahlia         411 Elderberry       616 Dahlia         414 Elderberry       619 Dahlia         415 Elderberry       625 Dahlia         421 Elderberry       631 Dahlia         427 Elderberry       631 Dahlia         428 Elderberry       634 Dahlia         431 Elderberry       660 Camellia         455 Elderberry       661 Camellia         484 Laurel Bay       666 Camellia         490 Laurel Bay       669 Camellia	361 Aspen	562 Dahlia
372 Aspen Tank 2       582 Aster         375 Aspen       584 Aster         385 Aspen       602 Dahlia         403 Elderberry       607 Dahlia         407 Elderberry       614 Dahlia         411 Elderberry       616 Dahlia         414 Elderberry       619 Dahlia         415 Elderberry       625 Dahlia         421 Elderberry       631 Dahlia         427 Elderberry       634 Dahlia         431 Elderberry       660 Camellia         455 Elderberry       661 Camellia         484 Laurel Bay       666 Camellia         490 Laurel Bay       669 Camellia	371 Aspen	568 Dahlia
375 Aspen       584 Aster         385 Aspen       602 Dahlia         403 Elderberry       607 Dahlia         407 Elderberry       614 Dahlia         411 Elderberry       616 Dahlia         414 Elderberry       619 Dahlia         415 Elderberry       625 Dahlia         421 Elderberry       629 Dahlia         427 Elderberry       631 Dahlia         428 Elderberry       634 Dahlia         431 Elderberry       660 Camellia         455 Elderberry       661 Camellia         484 Laurel Bay       666 Camellia         490 Laurel Bay       669 Camellia	372 Aspen Tank 1	581 Aster
385 Aspen 602 Dahlia 403 Elderberry 607 Dahlia 407 Elderberry 614 Dahlia 411 Elderberry 619 Dahlia 414 Elderberry 625 Dahlia 421 Elderberry 629 Dahlia 427 Elderberry 631 Dahlia 428 Elderberry 634 Dahlia 431 Elderberry 660 Camellia 455 Elderberry 661 Camellia 484 Laurel Bay 666 Camellia	372 Aspen Tank 2	582 Aster
403 Elderberry 407 Elderberry 614 Dahlia 411 Elderberry 616 Dahlia 414 Elderberry 619 Dahlia 415 Elderberry 625 Dahlia 421 Elderberry 629 Dahlia 427 Elderberry 631 Dahlia 428 Elderberry 634 Dahlia 431 Elderberry 660 Camellia 455 Elderberry 661 Camellia 484 Laurel Bay 669 Camellia	375 Aspen	584 Aster
407 Elderberry 614 Dahlia 411 Elderberry 616 Dahlia 414 Elderberry 619 Dahlia 415 Elderberry 625 Dahlia 421 Elderberry 629 Dahlia 427 Elderberry 631 Dahlia 428 Elderberry 634 Dahlia 431 Elderberry 660 Camellia 455 Elderberry 661 Camellia 484 Laurel Bay 666 Camellia	385 Aspen	602 Dahlia
411 Elderberry 414 Elderberry 619 Dahlia 415 Elderberry 625 Dahlia 421 Elderberry 629 Dahlia 427 Elderberry 631 Dahlia 428 Elderberry 634 Dahlia 431 Elderberry 660 Camellia 455 Elderberry 661 Camellia 484 Laurel Bay 666 Camellia	403 Elderberry	607 Dahlia
414 Elderberry 619 Dahlia 415 Elderberry 625 Dahlia 421 Elderberry 629 Dahlia 427 Elderberry 631 Dahlia 428 Elderberry 634 Dahlia 431 Elderberry 660 Camellia 455 Elderberry 661 Camellia 484 Laurel Bay 666 Camellia	407 Elderberry	614 Dahlia
415 Elderberry 625 Dahlia 421 Elderberry 629 Dahlia 427 Elderberry 631 Dahlia 428 Elderberry 634 Dahlia 431 Elderberry 660 Camellia 455 Elderberry 661 Camellia 484 Laurel Bay 666 Camellia 490 Laurel Bay 669 Camellia	411 Elderberry	616 Dahlia
421 Elderberry629 Dahlia427 Elderberry631 Dahlia428 Elderberry634 Dahlia431 Elderberry660 Camellia455 Elderberry661 Camellia484 Laurel Bay666 Camellia490 Laurel Bay669 Camellia	414 Elderberry	619 Dahlia
427 Elderberry 631 Dahlia 428 Elderberry 634 Dahlia 431 Elderberry 660 Camellia 455 Elderberry 661 Camellia 484 Laurel Bay 666 Camellia 490 Laurel Bay 669 Camellia	415 Elderberry	625 Dahlia
428 Elderberry634 Dahlia431 Elderberry660 Camellia455 Elderberry661 Camellia484 Laurel Bay666 Camellia490 Laurel Bay669 Camellia	421 Elderberry	629 Dahlia
431 Elderberry 660 Camellia 455 Elderberry 661 Camellia 484 Laurel Bay 666 Camellia 490 Laurel Bay 669 Camellia	427 Elderberry	631 Dahlia
455 Elderberry 661 Camellia 484 Laurel Bay 666 Camellia 490 Laurel Bay 669 Camellia	428 Elderberry	634 Dahlia
484 Laurel Bay 666 Camellia 490 Laurel Bay 669 Camellia	431 Elderberry	660 Camellia
490 Laurel Bay 669 Camellia	455 Elderberry	661 Camellia
·	484 Laurel Bay	666 Camellia
502 Laurel Bay 672 Camellia	490 Laurel Bay	669 Camellia
	502 Laurel Bay	672 Camellia

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

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

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

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