

SUMMARY REPORT
89 BEECH STREET (FORMERLY 260 BEECH STREET)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC

Revision: 0
Prepared for:

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

and



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

JUNE 2021

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Prepared by:



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

Contract Number: N62470-14-D-9016
CTO WE52
JUNE 2021

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List of Acronyms

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

1.0 INTRODUCTION

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

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

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 89 Beech Street (Formerly 260 Beech 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 89 Beech Street (Formerly 260 Beech Street). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 260 Beech Street* (MCAS Beaufort, 2013). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

Two 280 gallon heating oil USTs were removed at 89 Beech Street (Formerly 260 Beech Street). Tank 1 was removed on July 25, 2012, and Tank 2 was removed from on August 2, 2012. The USTs were removed from the rear patio area at 89 Beech Street (Formerly 260 Beech Street). The former UST locations are indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The USTs were 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 removals. According to the UST Assessment Report

(Appendix B), the depths to the bases of the USTs were 4'9" bgs (Tank 1) and 4'0" bgs (Tank 2) and a single soil sample was collected for each from those depths. The samples were collected from the fill port side of the former USTs to represent a worst case scenario.

Following UST removals, a soil sample was collected from the base of each 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 locations (Tanks 1 and 2) 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 the former UST locations (Tanks 1 and 2) at 89 Beech Street (Formerly 260 Beech Street) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former USTs 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 89 Beech Street (Formerly 260 Beech 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 – 260 Beech Street, Laurel Bay Military Housing Area, April 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
89 Beech Street (Formerly 260 Beech Street)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results	
		Samples Collected 08/01/12 and 08/02/12	260 Beech-1a 08/01/12
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)			
Benzene	0.003	ND	ND
Ethylbenzene	1.15	ND	ND
Naphthalene	0.036	ND	ND
Toluene	0.627	ND	ND
Xylenes, Total	13.01	ND	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)			
Benzo(a)anthracene	0.66	ND	0.0162
Benzo(b)fluoranthene	0.66	ND	0.0872
Benzo(k)fluoranthene	0.66	ND	0.0425
Chrysene	0.66	ND	0.0413
Dibenz(a,h)anthracene	0.66	ND	ND

Notes:

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

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - milligram per kilogram

ND - not detected at the reporting limit (or method detection limit if shown on the laboratory report).

The laboratory report is provided in Appendix B.

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Appendix A
Multi-Media Selection Process for LBMH



Appendix A - Multi-Media Selection Process for LBMH

Appendix B
UST Assessment Report

Attachment 1

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

Date Received	Submit Completed Form To:
---------------	---------------------------

State Use Only	UST Program
----------------	-------------

SCDHEC
2600 Bull Street
Columbia, South Carolina 29201
Telephone (803) 896-7957

I. OWNERSHIP OF UST (S)

MCAS Beaufort, Commanding Officer Attn: NREAO (Craig Ehde)
Owner Name (Corporation, Individual, Public Agency, Other)

P.O. Box 55001
Mailing Address

Beaufort, City	South Carolina State	29904-5001 Zip Code
843 Area Code	228-7317 Telephone Number	Craig Ehde Contact Person

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. #
Laurel Bay Military Housing Area, Marine Corps Air Station, Beaufort, SC
Facility Name or Company Site Identifier

260 Beech Street, Laurel Bay Military Housing Area
Street Address or State Road (as applicable)

Beaufort, City	Beaufort County
-------------------	--------------------

Attachment 2

III. INSURANCE INFORMATION

Insurance Statement

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

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

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

My policy provider is: _____

The policy deductible is: _____

The policy limit is: _____

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

IV. REQUEST FOR SUPERB FUNDING

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

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

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

Name (Type or print.) _____

Signature _____

To be completed by Notary Public:

Sworn before me this _____ day of _____, 20_____

(Name) _____

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

VI. UST INFORMATION

- A. Product...(ex. Gas, Kerosene).....
- B. Capacity..(ex. 1k, 2k).....
- C. Age.....
- D. Construction Material..(ex. Steel, FRP)....
- E. Month/Year of Last Use.....
- F. Depth (ft.) To Base of Tank.....
- G. Spill Prevention Equipment Y/N.....
- H. Overfill Prevention Equipment Y/N.....
- I. Method of Closure Removed/Filled.....
- J. Date Tanks Removed/Filled.....
- K. Visible Corrosion or Pitting Y/N.....
- L. Visible Holes Y/N.....
- M. Method of disposal for any USTs removed from the ground (attach disposal manifests)
UST 260Beech-1 was removed from the ground, cleaned & recycled. UST 260Beech-2 was removed from the ground and disposed at a Subtitle "D" landfill. See Attachment "A".
- N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)
Contaminated water was pumped from 260Beech-1 and disposed by MCAS.
UST 260Beech-2 was previously filled with sand by others.
- O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST
Corrosion, pitting and holes were found in both tanks.

260 Beech-1	260 Beech-2	
Heating oil	Heating oil	
280 gal	280 gal	
Late 1950s	Late 1950s	
Steel	Steel	
Mid 80s	Mid 80s	
4'9"	4'	
No	No	
No	No	
Removed	Removed	
7/25/2012	8/2/2012	
Yes	Yes	
Yes	Yes	

VII. PIPING INFORMATION

- A. Construction Material..(ex. Steel, FRP).....
- B. Distance from UST to Dispenser.....
- C. Number of Dispensers.....
- D. Type of System Pressure or Suction.....
- E. Was Piping Removed from the Ground? Y/N
- F. Visible Corrosion or Pitting Y/N.....
- G. Visible Holes Y/N.....
- H. Age.....
- I. If any corrosion, pitting, or holes were observed, describe the location and extent for each piping run.

260Beech-1	260Beech-2	
Steel & Copper	Steel & Copper	
N/A	N/A	
N/A	N/A	
Suction	Suction	
No	No	
Yes	Yes	
No	No	
Late 1950s	Late 1950s	

Steel vent piping for both tanks were corroded and pitted. All copper supply and return piping were sound.

VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

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? *Slight odor from both excavations. If yes, indicate location on site map and describe the odor (strong, mild, etc.)		*X	
C. Was water present in the UST excavation, soil borings, or trenches? If yes, how far below land surface (indicate location and depth)?		X	
D. Did contaminated soils remain stockpiled on site after closure? If yes, indicate the stockpile location on the site map. Name of DHEC representative authorizing soil removal:		X	
E. Was a petroleum sheen or free product detected on any excavation or boring waters? If yes, indicate location and thickness.		X	

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B. _____

* = Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

Provide a detailed description of the methods used to collect and 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.

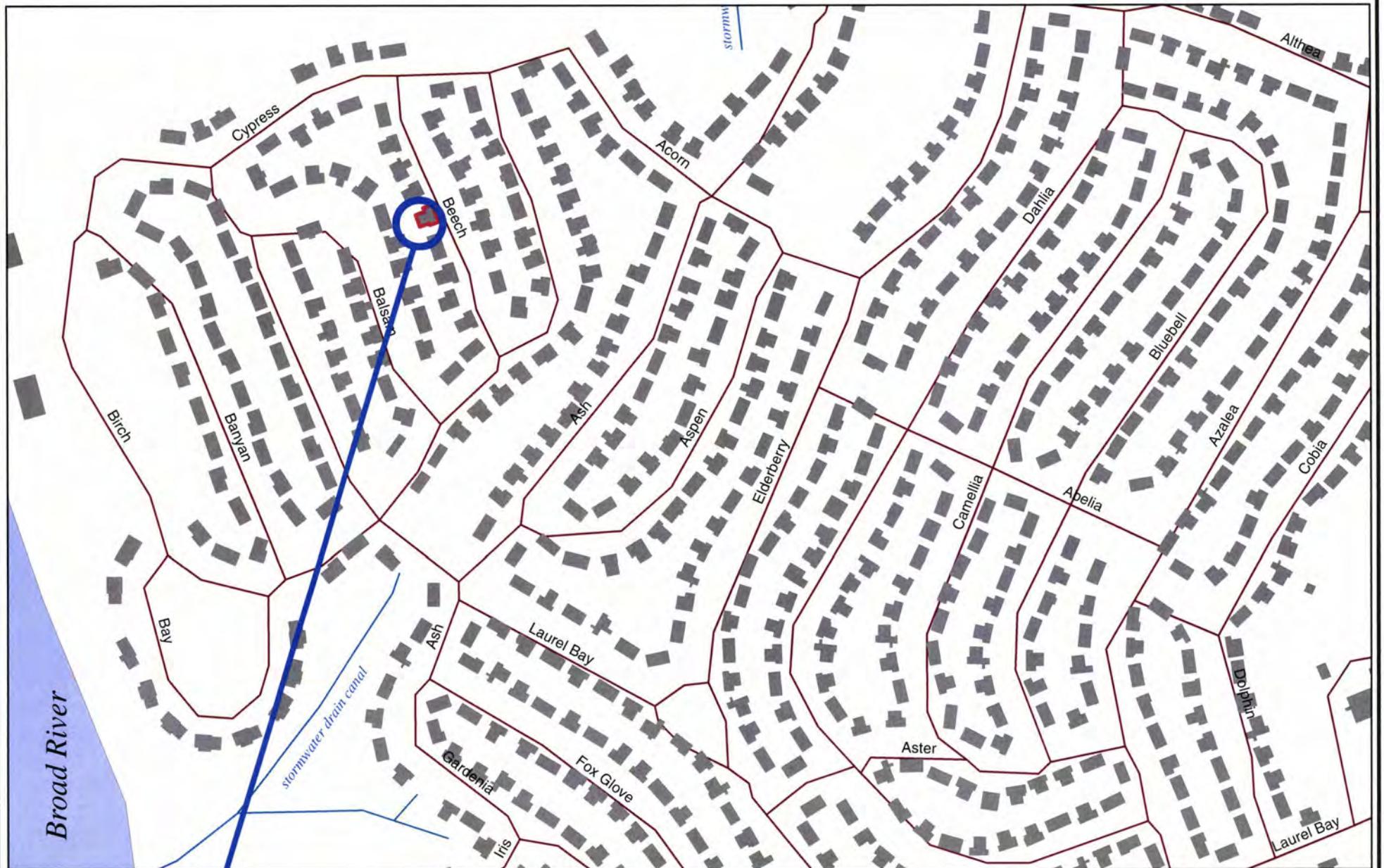
XII. RECEPTORS

	Yes	No
A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? If yes, indicate type of receptor, distance, and direction on site map.	*X Stormwater drainage canal	
B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system? If yes, indicate type of well, distance, and direction on site map.		X
C. Are there any underground structures (e.g., basements) Located within 100 feet of the UST system? If yes, indicate type of structure, distance, and direction on site map.		X
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? If yes, indicate the type of utility, distance, and direction on the site map.	*X Sewer, water, electricity cable and fiber optic	
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? If yes, indicate the area of contaminated soil on the site map.		X

XIII. SITE MAP

You must supply a scaled 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)



260 BEECH

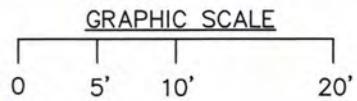
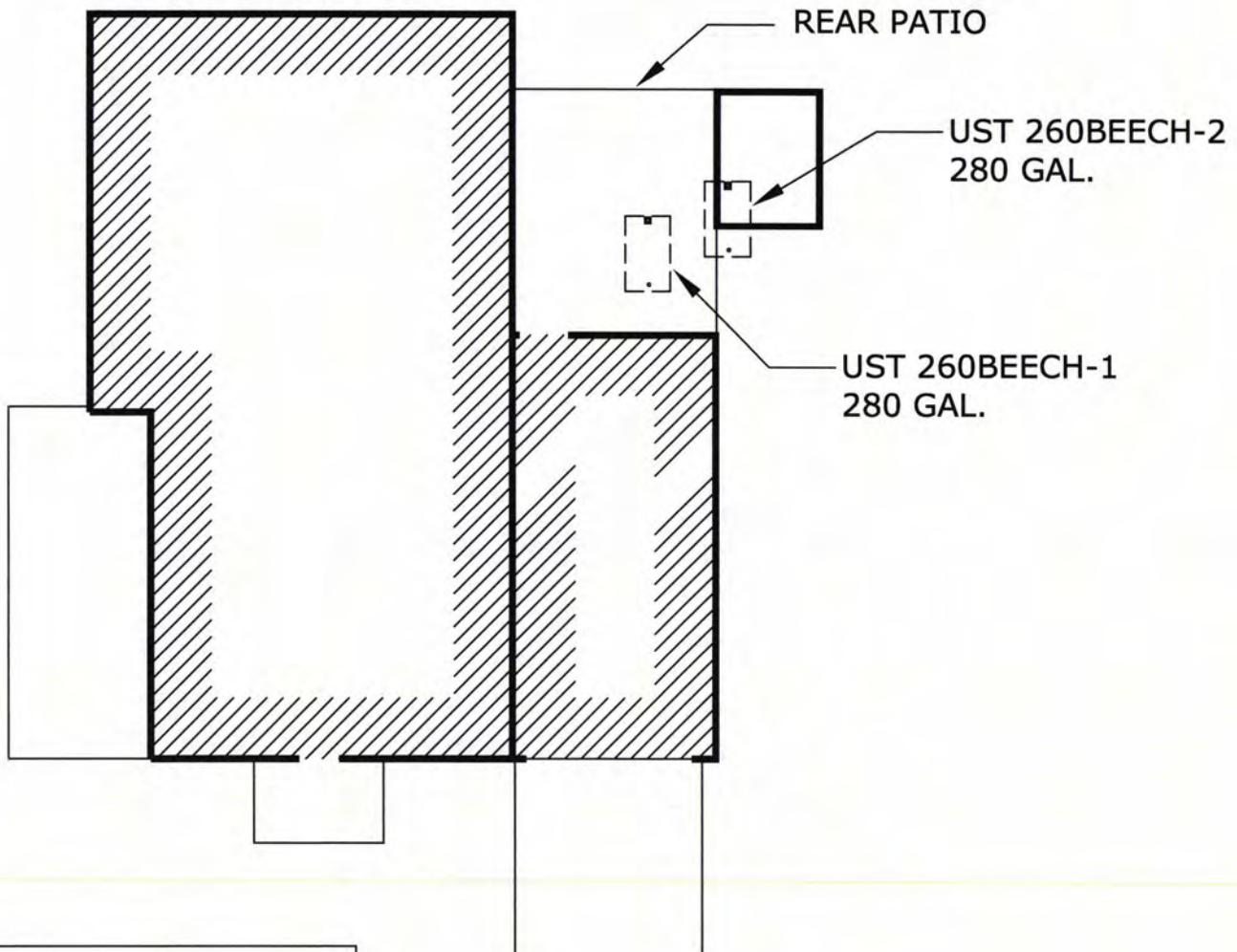
0 100 200 400 600 800 1,000
Feet

SBG-EEG, Inc. 7301 Rivers Ave., Suite 245 N. Charleston SC 29406-9643 Ph. (843) 573-7140
Drawn By: L. DiAsia
Dwg Date: Sept 2012

**FIGURE 1: LOCATION MAP
260 BEECH STREET
LAUREL BAY, BEAUFORT SC**



STORMWATER DRAINAGE CANAL ≈ 930'



TANK DEPTH BELOW GRADE
260BEECH-1 = 21"
260BEECH-2 = 12"

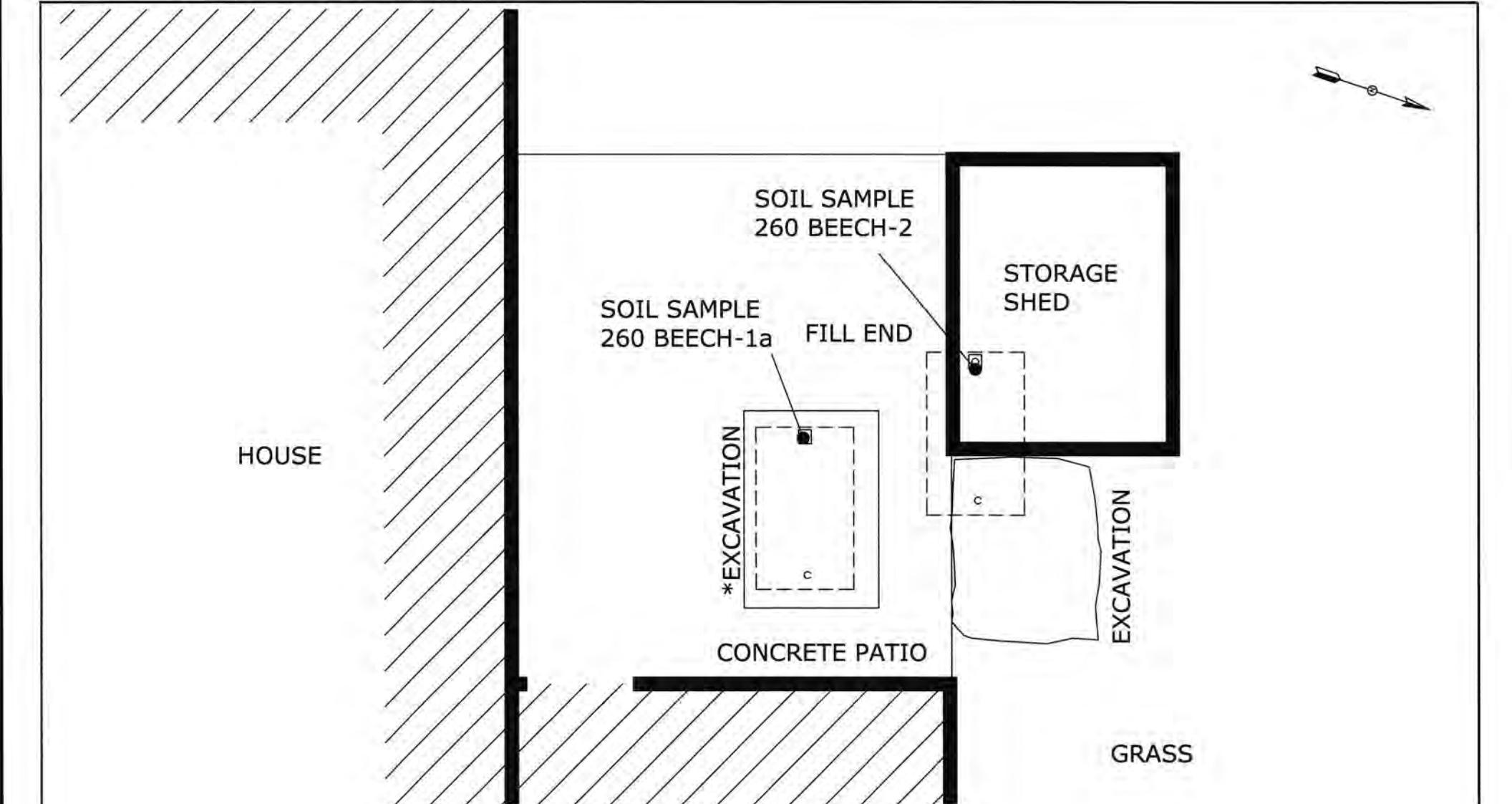
SBG-EEG

7301 RIVERS AVE., SUITE 245
N. CHARLESTON SC 29406
(843) 573-7140

FIGURE 2 SITE MAP
260 BEECH STREET, LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE SEPT 2012

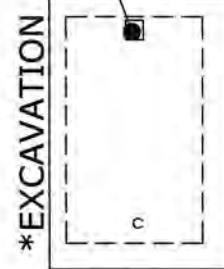


HOUSE

SOIL SAMPLE
260 BEECH-2

SOIL SAMPLE
260 BEECH-1a

FILL END



CONCRETE PATIO

STORAGE
SHED

EXCAVATION

GRASS

GRAPHIC SCALE
0 5'

*A PORTION OF THE PATIO
WAS REMOVED TO FACILITATE
EXTRACTING THE TANK.

SBG-EEG

7301 RIVERS AVE., SUITE 245
N. CHARLESTON SC 29406
(843) 573-7140

FIGURE 3 UST SAMPLE LOCATIONS
260 BEECH STREET LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE SEPT 2012



Picture 1: Location of the tanks at 260 Beech Street



Picture 2: UST 260Beech-1 excavation.



Picture 3: UST 260Beech-2 excavation.



Picture 4: UST 260Beech-2 excavation.

XIV. SUMMARY OF ANALYSIS RESULTS

Enter the soil analytical data for each soil boring for all CoC in the table below and on the following page.

CoC	UST	260Beech-1		260Beech-2		
Benzene		ND		ND		
Toluene		ND		ND		
Ethylbenzene		ND		ND		
Xylenes		ND		ND		
Naphthalene		ND		ND		
Benzo (a) anthracene		ND		0.0162 mg/kg		
Benzo (b) fluoranthene		ND		0.0872 mg/kg		
Benzo (k) fluoranthene		ND		0.0425 mg/kg		
Chrysene		ND		0.0413 mg/kg		
Dibenz (a, h) anthracene		ND		ND		
TPH (EPA 3550)						

CoC							
Benzene							
Toluene							
Ethylbenzene							
Xylenes							
Naphthalene							
Benzo (a) anthracene							
Benzo (b) fluoranthene							
Benzo (k) fluoranthene							
Chrysene							
Dibenz (a, h) anthracene							
TPH (EPA 3550)							

SUMMARY OF ANALYSIS RESULTS (cont'd)

Enter the ground water analytical data for each sample for all CoC in the table below. If free product is present, indicate the measured thickness to the nearest 0.01 feet.

CoC	RBSL ($\mu\text{g/l}$)	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				
MTBE	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: 490-3423-1

Client Project/Site: Laurel Bay Housing Project

Revision: 1

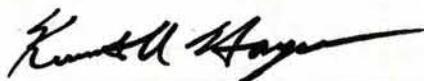
For:

Environmental Enterprise Group

10179 Highway 78

Ladson, South Carolina 29456

Attn: Mr. Tom McElwee



Authorized for release by:

10/20/2012 3:06:48 PM

Ken Hayes

Project Manager I

ken.hayes@testamericainc.com

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The
Expert

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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.

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Sample Summary

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

TestAmerica Job ID: 490-3423-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-3423-1	1262 Dove	Solid	07/30/12 16:15	08/04/12 08:30
490-3423-2	1276 Albatross	Solid	08/01/12 10:45	08/04/12 08:30
490-3423-3	261 Beech-1a	Solid	08/01/12 15:00	08/04/12 08:30
490-3423-4	261 Beech-2a	Solid	08/01/12 15:15	08/04/12 08:30
490-3423-5	261 Beech-3a	Solid	08/01/12 15:30	08/04/12 08:30
490-3423-6	260 Beech-1a	Solid	08/01/12 16:00	08/04/12 08:30
490-3423-7	260 Beech-2	Solid	08/02/12 10:45	08/04/12 08:30

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Case Narrative

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

TestAmerica Job ID: 490-3423-1

Job ID: 490-3423-1

Laboratory: TestAmerica Nashville

Narrative

**Job Narrative
490-3423-1**

Comments

No additional comments.

Receipt

The samples were received on 8/4/2012 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.9° C.

Revised Report: To report 1-Methylnaphthalene and 2-Methylnaphthalene by 8270D per client request. This report replaces the one generated on 08/13/12 @ 1623.

GC/MS VOA

Method(s) 8260B: Internal standard responses were outside of acceptance limits for the following sample(s): (490-3429-1 MS), (490-3429-1 MSD). The sample(s) shows evidence of matrix interference.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 10484 were outside control limits due to failing internal standards. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample matrix: 261 Beech-3a (490-3423-5). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: Naphthalene reported with E flag due to lowest possible dilution being over dilute.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270D: The wrong sample was prepped and used for the MS/MSD; therefore, no MS/MSD results are reported for batch 11020.

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.

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Definitions/Glossary

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

TestAmerica Job ID: 490-3423-1

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Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

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

Client Sample Results

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

TestAmerica Job ID: 490-3423-1

Client Sample ID: 1262 Dove

Date Collected: 07/30/12 16:15

Date Received: 08/04/12 08:30

Lab Sample ID: 490-3423-1

Matrix: Solid

Percent Solids: 97.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00216	0.000723	mg/Kg	☒	08/04/12 15:53	08/06/12 16:37	1
Ethylbenzene	ND		0.00216	0.000723	mg/Kg	☒	08/04/12 15:53	08/06/12 16:37	1
Naphthalene	ND		0.00540	0.00183	mg/Kg	☒	08/04/12 15:53	08/06/12 16:37	1
Toluene	ND		0.00216	0.000799	mg/Kg	☒	08/04/12 15:53	08/06/12 16:37	1
Xylenes, Total	ND		0.00540	0.000723	mg/Kg	☒	08/04/12 15:53	08/06/12 16:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130				08/04/12 15:53	08/06/12 16:37	1
4-Bromofluorobenzene (Surr)	99		70 - 130				08/04/12 15:53	08/06/12 16:37	1
Dibromofluoromethane (Surr)	97		70 - 130				08/04/12 15:53	08/06/12 16:37	1
Toluene-d8 (Surr)	92		70 - 130				08/04/12 15:53	08/06/12 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0669	0.00998	mg/Kg	☒	08/08/12 12:38	08/08/12 20:43	1
Acenaphthylene	ND		0.0669	0.00898	mg/Kg	☒	08/08/12 12:38	08/08/12 20:43	1
Anthracene	ND		0.0669	0.00898	mg/Kg	☒	08/08/12 12:38	08/08/12 20:43	1
Benzo[a]anthracene	ND		0.0669	0.0150	mg/Kg	☒	08/08/12 12:38	08/08/12 20:43	1
Benzo[a]pyrene	ND		0.0669	0.0120	mg/Kg	☒	08/08/12 12:38	08/08/12 20:43	1
Benzo[b]fluoranthene	ND		0.0669	0.0120	mg/Kg	☒	08/08/12 12:38	08/08/12 20:43	1
Benzo[g,h,i]perylene	ND		0.0669	0.00898	mg/Kg	☒	08/08/12 12:38	08/08/12 20:43	1
Benzo[k]fluoranthene	ND		0.0669	0.0140	mg/Kg	☒	08/08/12 12:38	08/08/12 20:43	1
Pyrene	ND		0.0669	0.0120	mg/Kg	☒	08/08/12 12:38	08/08/12 20:43	1
Phenanthrene	ND		0.0669	0.00898	mg/Kg	☒	08/08/12 12:38	08/08/12 20:43	1
Chrysene	ND		0.0669	0.00898	mg/Kg	☒	08/08/12 12:38	08/08/12 20:43	1
Dibenz(a,h)anthracene	ND		0.0669	0.00699	mg/Kg	☒	08/08/12 12:38	08/08/12 20:43	1
Fluoranthene	ND		0.0669	0.00898	mg/Kg	☒	08/08/12 12:38	08/08/12 20:43	1
Fluorene	ND		0.0669	0.0120	mg/Kg	☒	08/08/12 12:38	08/08/12 20:43	1
Indeno[1,2,3-cd]pyrene	ND		0.0669	0.00998	mg/Kg	☒	08/08/12 12:38	08/08/12 20:43	1
Naphthalene	ND		0.0669	0.00898	mg/Kg	☒	08/08/12 12:38	08/08/12 20:43	1
2-Methylnaphthalene	ND		0.0669	0.0160	mg/Kg	☒	08/08/12 12:38	08/08/12 20:43	1
1-Methylnaphthalene	ND		0.0669	0.0140	mg/Kg	☒	08/08/12 12:38	08/08/12 20:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	40		29 - 120				08/08/12 12:38	08/08/12 20:43	1
Terphenyl-d14 (Surr)	64		13 - 120				08/08/12 12:38	08/08/12 20:43	1
Nitrobenzene-d5 (Surr)	38		27 - 120				08/08/12 12:38	08/08/12 20:43	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.0		0.10	0.10	%			08/04/12 13:58	1
Percent Solids	97		0.10	0.10	%			08/04/12 13:58	1

Client Sample Results

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

TestAmerica Job ID: 490-3423-1

Client Sample ID: 1276 Albatross

Date Collected: 08/01/12 10:45

Date Received: 08/04/12 08:30

Lab Sample ID: 490-3423-2

Matrix: Solid

Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00307	0.00103	mg/Kg	☒	08/04/12 15:53	08/06/12 17:06	1
Ethylbenzene	ND		0.00307	0.00103	mg/Kg	☒	08/04/12 15:53	08/06/12 17:06	1
Naphthalene	0.0234		0.00768	0.00261	mg/Kg	☒	08/04/12 15:53	08/06/12 17:06	1
Toluene	ND		0.00307	0.00114	mg/Kg	☒	08/04/12 15:53	08/06/12 17:06	1
Xylenes, Total	ND		0.00768	0.00103	mg/Kg	☒	08/04/12 15:53	08/06/12 17:06	1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101			70 - 130			08/04/12 15:53	08/06/12 17:06	1
4-Bromofluorobenzene (Surr)	101			70 - 130			08/04/12 15:53	08/06/12 17:06	1
Dibromofluoromethane (Surr)	98			70 - 130			08/04/12 15:53	08/06/12 17:06	1
Toluene-d8 (Surr)	92			70 - 130			08/04/12 15:53	08/06/12 17:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0667	0.00996	mg/Kg	☒	08/08/12 12:38	08/08/12 21:04	1
Acenaphthylene	ND		0.0667	0.00896	mg/Kg	☒	08/08/12 12:38	08/08/12 21:04	1
Anthracene	ND		0.0667	0.00896	mg/Kg	☒	08/08/12 12:38	08/08/12 21:04	1
Benzo[a]anthracene	ND		0.0667	0.0149	mg/Kg	☒	08/08/12 12:38	08/08/12 21:04	1
Benzo[a]pyrene	ND		0.0667	0.0119	mg/Kg	☒	08/08/12 12:38	08/08/12 21:04	1
Benzo[b]fluoranthene	ND		0.0667	0.0119	mg/Kg	☒	08/08/12 12:38	08/08/12 21:04	1
Benzo[g,h,i]perylene	ND		0.0667	0.00896	mg/Kg	☒	08/08/12 12:38	08/08/12 21:04	1
Benzo[k]fluoranthene	ND		0.0667	0.0139	mg/Kg	☒	08/08/12 12:38	08/08/12 21:04	1
Pyrene	ND		0.0667	0.0119	mg/Kg	☒	08/08/12 12:38	08/08/12 21:04	1
Phenanthrene	0.0657 J		0.0667	0.00896	mg/Kg	☒	08/08/12 12:38	08/08/12 21:04	1
Chrysene	ND		0.0667	0.00896	mg/Kg	☒	08/08/12 12:38	08/08/12 21:04	1
Dibenz(a,h)anthracene	ND		0.0667	0.00697	mg/Kg	☒	08/08/12 12:38	08/08/12 21:04	1
Fluoranthene	ND		0.0667	0.00896	mg/Kg	☒	08/08/12 12:38	08/08/12 21:04	1
Fluorene	ND		0.0667	0.0119	mg/Kg	☒	08/08/12 12:38	08/08/12 21:04	1
Indeno[1,2,3-cd]pyrene	ND		0.0667	0.00996	mg/Kg	☒	08/08/12 12:38	08/08/12 21:04	1
Naphthalene	ND		0.0667	0.00896	mg/Kg	☒	08/08/12 12:38	08/08/12 21:04	1
2-Methylnaphthalene	0.159		0.0667	0.0159	mg/Kg	☒	08/08/12 12:38	08/08/12 21:04	1
1-Methylnaphthalene	0.126		0.0667	0.0139	mg/Kg	☒	08/08/12 12:38	08/08/12 21:04	1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	51			29 - 120			08/08/12 12:38	08/08/12 21:04	1
Terphenyl-d14 (Surr)	71			13 - 120			08/08/12 12:38	08/08/12 21:04	1
Nitrobenzene-d5 (Surr)	47			27 - 120			08/08/12 12:38	08/08/12 21:04	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		0.10	0.10	%			08/04/12 13:58	1
Percent Solids	77		0.10	0.10	%			08/04/12 13:58	1

Client Sample Results

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

TestAmerica Job ID: 490-3423-1

Client Sample ID: 261 Beech-1a

Date Collected: 08/01/12 15:00

Date Received: 08/04/12 08:30

Lab Sample ID: 490-3423-3

Matrix: Solid

Percent Solids: 74.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00104	J	0.00210	0.000704	mg/Kg	☒	08/04/12 15:53	08/06/12 17:35	1
Ethylbenzene	0.0133		0.00210	0.000704	mg/Kg	☒	08/04/12 15:53	08/06/12 17:35	1
Naphthalene	1.38		1.19	0.406	mg/Kg	☒	08/04/12 15:59	08/08/12 16:28	1
Toluene	0.00115	J	0.00210	0.000778	mg/Kg	☒	08/04/12 15:53	08/06/12 17:35	1
Xylenes, Total	0.0201		0.00525	0.000704	mg/Kg	☒	08/04/12 15:53	08/06/12 17:35	1

Surrogate **%Recovery** **Qualifier** **Limits** **Prepared** **Analyzed** **Dil Fac**

1,2-Dichloroethane-d4 (Surr)	97		70 - 130	08/04/12 15:53	08/06/12 17:35	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130	08/04/12 15:59	08/08/12 16:28	1
4-Bromofluorobenzene (Surr)	117		70 - 130	08/04/12 15:53	08/06/12 17:35	1
4-Bromofluorobenzene (Surr)	102		70 - 130	08/04/12 15:59	08/08/12 16:28	1
Dibromofluoromethane (Surr)	98		70 - 130	08/04/12 15:53	08/06/12 17:35	1
Dibromofluoromethane (Surr)	89		70 - 130	08/04/12 15:59	08/08/12 16:28	1
Toluene-d8 (Surr)	100		70 - 130	08/04/12 15:53	08/06/12 17:35	1
Toluene-d8 (Surr)	101		70 - 130	08/04/12 15:59	08/08/12 16:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.169		0.0662	0.00989	mg/Kg	☒	08/08/12 12:38	08/08/12 21:24	1
Acenaphthylene	0.0500	J	0.0662	0.00890	mg/Kg	☒	08/08/12 12:38	08/08/12 21:24	1
Anthracene	0.104		0.0662	0.00890	mg/Kg	☒	08/08/12 12:38	08/08/12 21:24	1
Benzo[a]anthracene	ND		0.0662	0.0148	mg/Kg	☒	08/08/12 12:38	08/08/12 21:24	1
Benzo[a]pyrene	ND		0.0662	0.0119	mg/Kg	☒	08/08/12 12:38	08/08/12 21:24	1
Benzo[b]fluoranthene	ND		0.0662	0.0119	mg/Kg	☒	08/08/12 12:38	08/08/12 21:24	1
Benzo[g,h,i]perylene	ND		0.0662	0.00890	mg/Kg	☒	08/08/12 12:38	08/08/12 21:24	1
Benzo[k]fluoranthene	ND		0.0662	0.0138	mg/Kg	☒	08/08/12 12:38	08/08/12 21:24	1
Pyrene	0.202		0.0662	0.0119	mg/Kg	☒	08/08/12 12:38	08/08/12 21:24	1
Phenanthrene	0.819		0.0662	0.00890	mg/Kg	☒	08/08/12 12:38	08/08/12 21:24	1
Chrysene	ND		0.0662	0.00890	mg/Kg	☒	08/08/12 12:38	08/08/12 21:24	1
Dibenz(a,h)anthracene	ND		0.0662	0.00692	mg/Kg	☒	08/08/12 12:38	08/08/12 21:24	1
Fluoranthene	0.229		0.0662	0.00890	mg/Kg	☒	08/08/12 12:38	08/08/12 21:24	1
Fluorene	0.272		0.0662	0.0119	mg/Kg	☒	08/08/12 12:38	08/08/12 21:24	1
Indeno[1,2,3-cd]pyrene	ND		0.0662	0.00989	mg/Kg	☒	08/08/12 12:38	08/08/12 21:24	1
Naphthalene	0.242		0.0662	0.00890	mg/Kg	☒	08/08/12 12:38	08/08/12 21:24	1
2-Methylnaphthalene	2.22		0.0662	0.0158	mg/Kg	☒	08/08/12 12:38	08/08/12 21:24	1
1-Methylnaphthalene	1.52		0.0662	0.0138	mg/Kg	☒	08/08/12 12:38	08/08/12 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	48		29 - 120	08/08/12 12:38	08/08/12 21:24	1
Terphenyl-d14 (Surr)	67		13 - 120	08/08/12 12:38	08/08/12 21:24	1
Nitrobenzene-d5 (Surr)	50		27 - 120	08/08/12 12:38	08/08/12 21:24	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26		0.10	0.10	%			08/04/12 13:58	1
Percent Solids	74		0.10	0.10	%			08/04/12 13:58	1

Client Sample Results

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

TestAmerica Job ID: 490-3423-1

Client Sample ID: 261 Beech-2a

Date Collected: 08/01/12 15:15

Date Received: 08/04/12 08:30

Lab Sample ID: 490-3423-4

Matrix: Solid

Percent Solids: 73.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00189	0.000634	mg/Kg	☒	08/04/12 15:53	08/07/12 13:34	1
Ethylbenzene	ND		0.00189	0.000634	mg/Kg	☒	08/04/12 15:53	08/07/12 13:34	1
Naphthalene	0.0222		0.00473	0.00161	mg/Kg	☒	08/04/12 15:53	08/07/12 13:34	1
Toluene	ND		0.00189	0.000701	mg/Kg	☒	08/04/12 15:53	08/07/12 13:34	1
Xylenes, Total	0.00189 J		0.00473	0.000634	mg/Kg	☒	08/04/12 15:53	08/07/12 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130	08/04/12 15:53	08/07/12 13:34	1
4-Bromofluorobenzene (Surr)	102		70 - 130	08/04/12 15:53	08/07/12 13:34	1
Dibromofluoromethane (Surr)	94		70 - 130	08/04/12 15:53	08/07/12 13:34	1
Toluene-d8 (Surr)	105		70 - 130	08/04/12 15:53	08/07/12 13:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0665	0.00992	mg/Kg	☒	08/08/12 12:38	08/08/12 21:45	1
Acenaphthylene	ND		0.0665	0.00893	mg/Kg	☒	08/08/12 12:38	08/08/12 21:45	1
Anthracene	ND		0.0665	0.00893	mg/Kg	☒	08/08/12 12:38	08/08/12 21:45	1
Benzo[a]anthracene	ND		0.0665	0.0149	mg/Kg	☒	08/08/12 12:38	08/08/12 21:45	1
Benzo[a]pyrene	ND		0.0665	0.0119	mg/Kg	☒	08/08/12 12:38	08/08/12 21:45	1
Benzo[b]fluoranthene	ND		0.0665	0.0119	mg/Kg	☒	08/08/12 12:38	08/08/12 21:45	1
Benzo[g,h,i]perylene	ND		0.0665	0.00893	mg/Kg	☒	08/08/12 12:38	08/08/12 21:45	1
Benzo[k]fluoranthene	ND		0.0665	0.0139	mg/Kg	☒	08/08/12 12:38	08/08/12 21:45	1
Pyrene	ND		0.0665	0.0119	mg/Kg	☒	08/08/12 12:38	08/08/12 21:45	1
Phenanthrene	0.0706		0.0665	0.00893	mg/Kg	☒	08/08/12 12:38	08/08/12 21:45	1
Chrysene	ND		0.0665	0.00893	mg/Kg	☒	08/08/12 12:38	08/08/12 21:45	1
Dibenz(a,h)anthracene	ND		0.0665	0.00694	mg/Kg	☒	08/08/12 12:38	08/08/12 21:45	1
Fluoranthene	ND		0.0665	0.00893	mg/Kg	☒	08/08/12 12:38	08/08/12 21:45	1
Fluorene	ND		0.0665	0.0119	mg/Kg	☒	08/08/12 12:38	08/08/12 21:45	1
Indeno[1,2,3-cd]pyrene	ND		0.0665	0.00992	mg/Kg	☒	08/08/12 12:38	08/08/12 21:45	1
Naphthalene	ND		0.0665	0.00893	mg/Kg	☒	08/08/12 12:38	08/08/12 21:45	1
2-Methylnaphthalene	ND		0.0665	0.0159	mg/Kg	☒	08/08/12 12:38	08/08/12 21:45	1
1-Methylnaphthalene	ND		0.0665	0.0139	mg/Kg	☒	08/08/12 12:38	08/08/12 21:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	45		29 - 120	08/08/12 12:38	08/08/12 21:45	1
Terphenyl-d14 (Surr)	80		13 - 120	08/08/12 12:38	08/08/12 21:45	1
Nitrobenzene-d5 (Surr)	40		27 - 120	08/08/12 12:38	08/08/12 21:45	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26		0.10	0.10	%			08/04/12 13:58	1
Percent Solids	74		0.10	0.10	%			08/04/12 13:58	1

Client Sample Results

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

TestAmerica Job ID: 490-3423-1

Client Sample ID: 261 Beech-3a

Date Collected: 08/01/12 15:30

Date Received: 08/04/12 08:30

Lab Sample ID: 490-3423-5

Matrix: Solid

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00178	J	0.00214	0.000717	mg/Kg	☒	08/04/12 15:53	08/06/12 18:34	1
Ethylbenzene	0.0563		0.00214	0.000717	mg/Kg	☒	08/04/12 15:53	08/06/12 18:34	1
Naphthalene	0.315	E	0.00535	0.00182	mg/Kg	☒	08/04/12 15:53	08/06/12 18:34	1
Toluene	ND		0.00214	0.000791	mg/Kg	☒	08/04/12 15:53	08/06/12 18:34	1
Xylenes, Total	0.0261		0.00535	0.000717	mg/Kg	☒	08/04/12 15:53	08/06/12 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130	08/04/12 15:53	08/06/12 18:34	1
4-Bromofluorobenzene (Surr)	124		70 - 130	08/04/12 15:53	08/06/12 18:34	1
Dibromofluoromethane (Surr)	98		70 - 130	08/04/12 15:53	08/06/12 18:34	1
Toluene-d8 (Surr)	99		70 - 130	08/04/12 15:53	08/06/12 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0662	0.00988	mg/Kg	☒	08/08/12 12:38	08/08/12 22:06	1
Acenaphthylene	ND		0.0662	0.00889	mg/Kg	☒	08/08/12 12:38	08/08/12 22:06	1
Anthracene	ND		0.0662	0.00889	mg/Kg	☒	08/08/12 12:38	08/08/12 22:06	1
Benzo[a]anthracene	ND		0.0662	0.0148	mg/Kg	☒	08/08/12 12:38	08/08/12 22:06	1
Benzo[a]pyrene	ND		0.0662	0.0119	mg/Kg	☒	08/08/12 12:38	08/08/12 22:06	1
Benzo[b]fluoranthene	ND		0.0662	0.0119	mg/Kg	☒	08/08/12 12:38	08/08/12 22:06	1
Benzo[g,h,i]perylene	ND		0.0662	0.00889	mg/Kg	☒	08/08/12 12:38	08/08/12 22:06	1
Benzo[k]fluoranthene	ND		0.0662	0.0138	mg/Kg	☒	08/08/12 12:38	08/08/12 22:06	1
Pyrene	ND		0.0662	0.0119	mg/Kg	☒	08/08/12 12:38	08/08/12 22:06	1
Phenanthrene	ND		0.0662	0.00889	mg/Kg	☒	08/08/12 12:38	08/08/12 22:06	1
Chrysene	ND		0.0662	0.00889	mg/Kg	☒	08/08/12 12:38	08/08/12 22:06	1
Dibenz(a,h)anthracene	ND		0.0662	0.00691	mg/Kg	☒	08/08/12 12:38	08/08/12 22:06	1
Fluoranthene	ND		0.0662	0.00889	mg/Kg	☒	08/08/12 12:38	08/08/12 22:06	1
Fluorene	ND		0.0662	0.0119	mg/Kg	☒	08/08/12 12:38	08/08/12 22:06	1
Indeno[1,2,3-cd]pyrene	ND		0.0662	0.00988	mg/Kg	☒	08/08/12 12:38	08/08/12 22:06	1
Naphthalene	ND		0.0662	0.00889	mg/Kg	☒	08/08/12 12:38	08/08/12 22:06	1
2-Methylnaphthalene	ND		0.0662	0.0158	mg/Kg	☒	08/08/12 12:38	08/08/12 22:06	1
1-Methylnaphthalene	ND		0.0662	0.0138	mg/Kg	☒	08/08/12 12:38	08/08/12 22:06	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
2-Fluorobiphenyl (Surr)	38		29 - 120	08/08/12 12:38	08/08/12 22:06	1			
Terphenyl-d14 (Surr)	65		13 - 120	08/08/12 12:38	08/08/12 22:06	1			
Nitrobenzene-d5 (Surr)	32		27 - 120	08/08/12 12:38	08/08/12 22:06	1			

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		0.10	0.10	%			08/04/12 13:58	1
Percent Solids	79		0.10	0.10	%			08/04/12 13:58	1

Client Sample Results

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

TestAmerica Job ID: 490-3423-1

Client Sample ID: 260 Beech-1a

Date Collected: 08/01/12 16:00

Date Received: 08/04/12 08:30

Lab Sample ID: 490-3423-6

Matrix: Solid

Percent Solids: 71.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00210	0.000703	mg/Kg	☒	08/04/12 15:53	08/07/12 14:03	1
Ethylbenzene	ND		0.00210	0.000703	mg/Kg	☒	08/04/12 15:53	08/07/12 14:03	1
Naphthalene	ND		0.00524	0.00178	mg/Kg	☒	08/04/12 15:53	08/07/12 14:03	1
Toluene	ND		0.00210	0.000776	mg/Kg	☒	08/04/12 15:53	08/07/12 14:03	1
Xylenes, Total	ND		0.00524	0.000703	mg/Kg	☒	08/04/12 15:53	08/07/12 14:03	1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101			70 - 130			08/04/12 15:53	08/07/12 14:03	1
4-Bromofluorobenzene (Surr)	115			70 - 130			08/04/12 15:53	08/07/12 14:03	1
Dibromofluoromethane (Surr)	95			70 - 130			08/04/12 15:53	08/07/12 14:03	1
Toluene-d8 (Surr)	106			70 - 130			08/04/12 15:53	08/07/12 14:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0660	0.00985	mg/Kg	☒	08/08/12 12:38	08/08/12 22:26	1
Acenaphthylene	ND		0.0660	0.00886	mg/Kg	☒	08/08/12 12:38	08/08/12 22:26	1
Anthracene	ND		0.0660	0.00886	mg/Kg	☒	08/08/12 12:38	08/08/12 22:26	1
Benzo[a]anthracene	ND		0.0660	0.0148	mg/Kg	☒	08/08/12 12:38	08/08/12 22:26	1
Benzo[a]pyrene	ND		0.0660	0.0118	mg/Kg	☒	08/08/12 12:38	08/08/12 22:26	1
Benzo[b]fluoranthene	ND		0.0660	0.0118	mg/Kg	☒	08/08/12 12:38	08/08/12 22:26	1
Benzo[g,h,i]perylene	ND		0.0660	0.00886	mg/Kg	☒	08/08/12 12:38	08/08/12 22:26	1
Benzo[k]fluoranthene	ND		0.0660	0.0138	mg/Kg	☒	08/08/12 12:38	08/08/12 22:26	1
Pyrene	ND		0.0660	0.0118	mg/Kg	☒	08/08/12 12:38	08/08/12 22:26	1
Phenanthrene	0.111						Prepared	Analyzed	Dil Fac
Chrysene	ND		0.0660	0.00886	mg/Kg	☒	08/08/12 12:38	08/08/12 22:26	1
Dibenz(a,h)anthracene	ND		0.0660	0.00689	mg/Kg	☒	08/08/12 12:38	08/08/12 22:26	1
Fluoranthene	ND		0.0660	0.00886	mg/Kg	☒	08/08/12 12:38	08/08/12 22:26	1
Fluorene	0.0747						Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		0.0660	0.00985	mg/Kg	☒	08/08/12 12:38	08/08/12 22:26	1
Naphthalene	0.0823						Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.419		0.0660	0.0158	mg/Kg	☒	08/08/12 12:38	08/08/12 22:26	1
1-Methylnaphthalene	0.288		0.0660	0.0138	mg/Kg	☒	08/08/12 12:38	08/08/12 22:26	1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	55			29 - 120			08/08/12 12:38	08/08/12 22:26	1
Terphenyl-d14 (Surr)	73			13 - 120			08/08/12 12:38	08/08/12 22:26	1
Nitrobenzene-d5 (Surr)	51			27 - 120			08/08/12 12:38	08/08/12 22:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28		0.10	0.10	%			08/04/12 13:58	1
Percent Solids	72		0.10	0.10	%			08/04/12 13:58	1

Client Sample Results

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

TestAmerica Job ID: 490-3423-1

Client Sample ID: 260 Beech-2

Date Collected: 08/02/12 10:45

Date Received: 08/04/12 08:30

Lab Sample ID: 490-3423-7

Matrix: Solid

Percent Solids: 95.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00198	0.000665	mg/Kg	☒	08/04/12 15:53	08/06/12 19:32	1
Ethylbenzene	ND		0.00198	0.000665	mg/Kg	☒	08/04/12 15:53	08/06/12 19:32	1
Naphthalene	ND		0.00496	0.00169	mg/Kg	☒	08/04/12 15:53	08/06/12 19:32	1
Toluene	ND		0.00198	0.000734	mg/Kg	☒	08/04/12 15:53	08/06/12 19:32	1
Xylenes, Total	ND		0.00496	0.000665	mg/Kg	☒	08/04/12 15:53	08/06/12 19:32	1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100			70 - 130			08/04/12 15:53	08/06/12 19:32	1
4-Bromofluorobenzene (Surr)	98			70 - 130			08/04/12 15:53	08/06/12 19:32	1
Dibromofluoromethane (Surr)	98			70 - 130			08/04/12 15:53	08/06/12 19:32	1
Toluene-d8 (Surr)	93			70 - 130			08/04/12 15:53	08/06/12 19:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0666	0.00993	mg/Kg	☒	08/08/12 12:38	08/08/12 22:47	1
Acenaphthylene	ND		0.0666	0.00894	mg/Kg	☒	08/08/12 12:38	08/08/12 22:47	1
Anthracene	ND		0.0666	0.00894	mg/Kg	☒	08/08/12 12:38	08/08/12 22:47	1
Benzo[a]anthracene	0.0162 J		0.0666	0.0149	mg/Kg	☒	08/08/12 12:38	08/08/12 22:47	1
Benzo[a]pyrene	0.0335 J		0.0666	0.0119	mg/Kg	☒	08/08/12 12:38	08/08/12 22:47	1
Benzo[b]fluoranthene	0.0872		0.0666	0.0119	mg/Kg	☒	08/08/12 12:38	08/08/12 22:47	1
Benzo[g,h,i]perylene	0.0668		0.0666	0.00894	mg/Kg	☒	08/08/12 12:38	08/08/12 22:47	1
Benzo[k]fluoranthene	0.0425 J		0.0666	0.0139	mg/Kg	☒	08/08/12 12:38	08/08/12 22:47	1
Pyrene	ND		0.0666	0.0119	mg/Kg	☒	08/08/12 12:38	08/08/12 22:47	1
Phenanthrene	ND		0.0666	0.00894	mg/Kg	☒	08/08/12 12:38	08/08/12 22:47	1
Chrysene	0.0413 J		0.0666	0.00894	mg/Kg	☒	08/08/12 12:38	08/08/12 22:47	1
Dibenz(a,h)anthracene	ND		0.0666	0.00695	mg/Kg	☒	08/08/12 12:38	08/08/12 22:47	1
Fluoranthene	ND		0.0666	0.00894	mg/Kg	☒	08/08/12 12:38	08/08/12 22:47	1
Fluorene	ND		0.0666	0.0119	mg/Kg	☒	08/08/12 12:38	08/08/12 22:47	1
Indeno[1,2,3-cd]pyrene	0.0639 J		0.0666	0.00993	mg/Kg	☒	08/08/12 12:38	08/08/12 22:47	1
Naphthalene	ND		0.0666	0.00894	mg/Kg	☒	08/08/12 12:38	08/08/12 22:47	1
2-Methylnaphthalene	ND		0.0666	0.0159	mg/Kg	☒	08/08/12 12:38	08/08/12 22:47	1
1-Methylnaphthalene	ND		0.0666	0.0139	mg/Kg	☒	08/08/12 12:38	08/08/12 22:47	1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	50			29 - 120			08/08/12 12:38	08/08/12 22:47	1
Terphenyl-d14 (Surr)	75			13 - 120			08/08/12 12:38	08/08/12 22:47	1
Nitrobenzene-d5 (Surr)	44			27 - 120			08/08/12 12:38	08/08/12 22:47	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.6		0.10	0.10	%			08/04/12 13:58	1
Percent Solids	95		0.10	0.10	%			08/04/12 13:58	1

QC Sample Results

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

TestAmerica Job ID: 490-3423-1

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

Lab Sample ID: MB 490-10484/10

Matrix: Solid

Analysis Batch: 10484

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene			ND		0.00200	0.000670	mg/Kg			08/06/12 13:41	1
Ethylbenzene			ND		0.00200	0.000670	mg/Kg			08/06/12 13:41	1
Naphthalene			ND		0.00500	0.00170	mg/Kg			08/06/12 13:41	1
Toluene			ND		0.00200	0.000740	mg/Kg			08/06/12 13:41	1
Xylenes, Total			ND		0.00500	0.000670	mg/Kg			08/06/12 13:41	1
Surrogate											
1,2-Dichloroethane-d4 (Surr)			95			70 - 130			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			100			70 - 130				08/06/12 13:41	1
Dibromofluoromethane (Surr)			97			70 - 130				08/06/12 13:41	1
Toluene-d8 (Surr)			92			70 - 130				08/06/12 13:41	1

Lab Sample ID: LCS 490-10484/7

Matrix: Solid

Analysis Batch: 10484

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	MB	MB	Spike	LCS	LCS	Unit	D	%Rec	Limits	%Rec.	Dil Fac
				Added	Result	Qualifier					
Benzene			0.0500	0.05603		mg/Kg		112	75 - 127		
Ethylbenzene			0.0500	0.04974		mg/Kg		99	80 - 134		
Naphthalene			0.0500	0.04750		mg/Kg		95	69 - 150		
Toluene			0.0500	0.04969		mg/Kg		99	80 - 132		
Xylenes, Total			0.150	0.1485		mg/Kg		99	80 - 137		
Surrogate											
1,2-Dichloroethane-d4 (Surr)			94		70 - 130						
4-Bromofluorobenzene (Surr)			99		70 - 130						
Dibromofluoromethane (Surr)			98		70 - 130						
Toluene-d8 (Surr)			93		70 - 130						

Lab Sample ID: LCSD 490-10484/8

Matrix: Solid

Analysis Batch: 10484

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	MB	MB	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	%Rec.	RPD	Limit
				Added	Result	Qualifier						
Benzene			0.0500	0.05476		mg/Kg		110	75 - 127	2	50	
Ethylbenzene			0.0500	0.04897		mg/Kg		98	80 - 134	2	50	
Naphthalene			0.0500	0.04680		mg/Kg		94	69 - 150	1	50	
Toluene			0.0500	0.04908		mg/Kg		98	80 - 132	1	50	
Xylenes, Total			0.150	0.1446		mg/Kg		96	80 - 137	3	50	
Surrogate												
1,2-Dichloroethane-d4 (Surr)			94		70 - 130							
4-Bromofluorobenzene (Surr)			99		70 - 130							
Dibromofluoromethane (Surr)			97		70 - 130							
Toluene-d8 (Surr)			93		70 - 130							

QC Sample Results

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

TestAmerica Job ID: 490-3423-1

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

Lab Sample ID: MB 490-10688/6

Matrix: Solid

Analysis Batch: 10688

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.00200	0.000670	mg/Kg			08/07/12 12:36	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			08/07/12 12:36	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			08/07/12 12:36	1
Toluene	ND		0.00200	0.000740	mg/Kg			08/07/12 12:36	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			08/07/12 12:36	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Spike	LCS						
1,2-Dichloroethane-d4 (Surr)	96		70 - 130				08/07/12 12:36	1
4-Bromofluorobenzene (Surr)	102		70 - 130				08/07/12 12:36	1
Dibromofluoromethane (Surr)	93		70 - 130				08/07/12 12:36	1
Toluene-d8 (Surr)	104		70 - 130				08/07/12 12:36	1

Lab Sample ID: LCS 490-10688/3

Matrix: Solid

Analysis Batch: 10688

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spikes	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Benzene	0.0500	0.04881		mg/Kg		98	75 - 127
Ethylbenzene	0.0500	0.05110		mg/Kg		102	80 - 134
Naphthalene	0.0500	0.05052		mg/Kg		101	69 - 150
Toluene	0.0500	0.05146		mg/Kg		103	80 - 132
Xylenes, Total	0.150	0.1515		mg/Kg		101	80 - 137

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits
	Spike	LCS			
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		
4-Bromofluorobenzene (Surr)	102		70 - 130		
Dibromofluoromethane (Surr)	93		70 - 130		
Toluene-d8 (Surr)	105		70 - 130		

Lab Sample ID: LCSD 490-10688/4

Matrix: Solid

Analysis Batch: 10688

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spikes	LCSD	LCSD	Unit	D	%Rec.	Limits	RPD	Limit
	Added	Result	Qualifier						
Benzene	0.0500	0.04401		mg/Kg		88	75 - 127	10	50
Ethylbenzene	0.0500	0.04630		mg/Kg		93	80 - 134	10	50
Naphthalene	0.0500	0.05080		mg/Kg		102	69 - 150	1	50
Toluene	0.0500	0.04665		mg/Kg		93	80 - 132	10	50
Xylenes, Total	0.150	0.1379		mg/Kg		92	80 - 137	9	50

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits
	Spike	LCS			
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		
4-Bromofluorobenzene (Surr)	103		70 - 130		
Dibromofluoromethane (Surr)	95		70 - 130		
Toluene-d8 (Surr)	104		70 - 130		

QC Sample Results

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

TestAmerica Job ID: 490-3423-1

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

Lab Sample ID: 490-3358-B-17-D MS

Matrix: Solid

Analysis Batch: 10688

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 10705

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Benzene	ND		0.0468	0.04424		mg/Kg		95	31 - 143
Ethylbenzene	ND		0.0468	0.04567		mg/Kg		98	23 - 161
Naphthalene	ND		0.0468	0.04682		mg/Kg		100	10 - 176
Toluene	ND		0.0468	0.04596		mg/Kg		98	30 - 155
Xylenes, Total	ND		0.140	0.1354		mg/Kg		96	25 - 162
Surrogate									
	MS	MS	%Recovery	Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	96				70 - 130				
4-Bromofluorobenzene (Surr)	103				70 - 130				
Dibromofluoromethane (Surr)	94				70 - 130				
Toluene-d8 (Surr)	104				70 - 130				

Lab Sample ID: 490-3358-B-17-E MSD

Matrix: Solid

Analysis Batch: 10688

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 10705

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Benzene	ND		0.0620	0.06174		mg/Kg		100	31 - 143
Ethylbenzene	ND		0.0620	0.06409		mg/Kg		103	23 - 161
Naphthalene	ND		0.0620	0.06538		mg/Kg		105	10 - 176
Toluene	ND		0.0620	0.06413		mg/Kg		103	30 - 155
Xylenes, Total	ND		0.186	0.1905		mg/Kg		102	25 - 162
Surrogate									
	MSD	MSD	%Recovery	Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	101				70 - 130				
4-Bromofluorobenzene (Surr)	102				70 - 130				
Dibromofluoromethane (Surr)	98				70 - 130				
Toluene-d8 (Surr)	104				70 - 130				

Lab Sample ID: 490-3358-B-26-C MS

Matrix: Solid

Analysis Batch: 10914

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 10705

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Benzene	ND		0.0492	0.04448		mg/Kg		90	31 - 143
Ethylbenzene	ND		0.0492	0.04614		mg/Kg		94	23 - 161
Naphthalene	ND		0.0492	0.04704		mg/Kg		96	10 - 176
Toluene	ND		0.0492	0.04642		mg/Kg		94	30 - 155
Xylenes, Total	ND		0.148	0.1400		mg/Kg		95	25 - 162
Surrogate									
	MS	MS	%Recovery	Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	102				70 - 130				
4-Bromofluorobenzene (Surr)	102				70 - 130				
Dibromofluoromethane (Surr)	97				70 - 130				
Toluene-d8 (Surr)	103				70 - 130				

QC Sample Results

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

TestAmerica Job ID: 490-3423-1

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

Lab Sample ID: 490-3358-B-26-D MSD

Matrix: Solid

Analysis Batch: 10914

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
Benzene	ND		0.0494	0.04597		mg/Kg	93	31 - 143	3	50		
Ethylbenzene	ND		0.0494	0.04755		mg/Kg	96	23 - 161	3	50		
Naphthalene	ND		0.0494	0.04453		mg/Kg	90	10 - 176	5	50		
Toluene	ND		0.0494	0.04717		mg/Kg	95	30 - 155	2	50		
Xylenes, Total	ND		0.148	0.1405		mg/Kg	95	25 - 162	0	50		
Surrogate		MSD	MSD	%Recovery		Qualifier	Limits					
1,2-Dichloroethane-d4 (Surr)		101		70 - 130								
4-Bromofluorobenzene (Surr)		103		70 - 130								
Dibromofluoromethane (Surr)		96		70 - 130								
Toluene-d8 (Surr)		102		70 - 130								

Lab Sample ID: MB 490-10914/10

Matrix: Solid

Analysis Batch: 10914

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Benzene	ND		0.00200		0.000680	mg/Kg				08/08/12 14:31	1
Ethylbenzene	ND		0.00200		0.000680	mg/Kg				08/08/12 14:31	1
Naphthalene	ND		0.00500		0.00170	mg/Kg				08/08/12 14:31	1
Toluene	ND		0.00200		0.000740	mg/Kg				08/08/12 14:31	1
Xylenes, Total	ND		0.00500		0.000680	mg/Kg				08/08/12 14:31	1
Surrogate		MB	MB	%Recovery		Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)		97		70 - 130						08/08/12 14:31	1
4-Bromofluorobenzene (Surr)		103		70 - 130						08/08/12 14:31	1
Dibromofluoromethane (Surr)		94		70 - 130						08/08/12 14:31	1
Toluene-d8 (Surr)		101		70 - 130						08/08/12 14:31	1

Lab Sample ID: MB 490-10914/11

Matrix: Solid

Analysis Batch: 10914

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Benzene	ND		0.100		0.0340	mg/Kg				08/08/12 15:00	1
Ethylbenzene	ND		0.100		0.0340	mg/Kg				08/08/12 15:00	1
Naphthalene	ND		0.250		0.0850	mg/Kg				08/08/12 15:00	1
Toluene	ND		0.100		0.0370	mg/Kg				08/08/12 15:00	1
Xylenes, Total	ND		0.250		0.0340	mg/Kg				08/08/12 15:00	1
Surrogate		MB	MB	%Recovery		Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)		91		70 - 130						08/08/12 15:00	1
4-Bromofluorobenzene (Surr)		101		70 - 130						08/08/12 15:00	1
Dibromofluoromethane (Surr)		93		70 - 130						08/08/12 15:00	1
Toluene-d8 (Surr)		104		70 - 130						08/08/12 15:00	1

QC Sample Results

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

TestAmerica Job ID: 490-3423-1

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

Lab Sample ID: LCS 490-10914/7

Matrix: Solid

Analysis Batch: 10914

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Benzene	0.0500	0.04607		mg/Kg		92	75 - 127
Ethylbenzene	0.0500	0.04925		mg/Kg		99	80 - 134
Naphthalene	0.0500	0.05430		mg/Kg		109	69 - 150
Toluene	0.0500	0.04911		mg/Kg		98	80 - 132
Xylenes, Total	0.150	0.1468		mg/Kg		98	80 - 137

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Lab Sample ID: LCSD 490-10914/8

Matrix: Solid

Analysis Batch: 10914

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	Limit
	Added	Result	Qualifier						
Benzene	0.0500	0.04675		mg/Kg		93	75 - 127	1	50
Ethylbenzene	0.0500	0.04908		mg/Kg		98	80 - 134	0	50
Naphthalene	0.0500	0.05168		mg/Kg		103	69 - 150	5	50
Toluene	0.0500	0.04888		mg/Kg		98	80 - 132	0	50
Xylenes, Total	0.150	0.1454		mg/Kg		97	80 - 137	1	50

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
Toluene-d8 (Surr)	103		70 - 130

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

Lab Sample ID: MB 490-11020/1-A

Matrix: Solid

Analysis Batch: 10956

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11020

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	ND		0.0670	0.0100	mg/Kg		08/08/12 12:38	08/08/12 17:13	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		08/08/12 12:38	08/08/12 17:13	1
Anthracene	ND		0.0670	0.00900	mg/Kg		08/08/12 12:38	08/08/12 17:13	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		08/08/12 12:38	08/08/12 17:13	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		08/08/12 12:38	08/08/12 17:13	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		08/08/12 12:38	08/08/12 17:13	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		08/08/12 12:38	08/08/12 17:13	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		08/08/12 12:38	08/08/12 17:13	1
Pyrene	ND		0.0670	0.0120	mg/Kg		08/08/12 12:38	08/08/12 17:13	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		08/08/12 12:38	08/08/12 17:13	1
Chrysene	ND		0.0670	0.00900	mg/Kg		08/08/12 12:38	08/08/12 17:13	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		08/08/12 12:38	08/08/12 17:13	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		08/08/12 12:38	08/08/12 17:13	1

QC Sample Results

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

TestAmerica Job ID: 490-3423-1

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

Lab Sample ID: MB 490-11020/1-A

Matrix: Solid

Analysis Batch: 10956

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11020

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Fluorene	ND		0.0670	0.0120	mg/Kg		08/08/12 12:38	08/08/12 17:13	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		08/08/12 12:38	08/08/12 17:13	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		08/08/12 12:38	08/08/12 17:13	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		08/08/12 12:38	08/08/12 17:13	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		08/08/12 12:38	08/08/12 17:13	1
Surrogate	MB		%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
	Result	Qualifier			29 - 120				
2-Fluorobiphenyl (Surr)	54						08/08/12 12:38	08/08/12 17:13	1
Terphenyl-d14 (Surr)	77				13 - 120		08/08/12 12:38	08/08/12 17:13	1
Nitrobenzene-d5 (Surr)	51				27 - 120		08/08/12 12:38	08/08/12 17:13	1

Lab Sample ID: LCS 490-11020/2-A

Matrix: Solid

Analysis Batch: 10956

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11020

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
	Added	Result						
Acenaphthylene	1.67	1.224			mg/Kg		73	38 - 120
Anthracene	1.67	1.243			mg/Kg		75	46 - 124
Benz[a]anthracene	1.67	1.259			mg/Kg		76	45 - 120
Benz[a]pyrene	1.67	1.343			mg/Kg		81	45 - 120
Benz[b]fluoranthene	1.67	1.338			mg/Kg		80	42 - 120
Benz[g,h,i]perylene	1.67	1.240			mg/Kg		74	38 - 120
Benz[k]fluoranthene	1.67	1.207			mg/Kg		72	42 - 120
Pyrene	1.67	1.279			mg/Kg		77	43 - 120
Phenanthrene	1.67	1.237			mg/Kg		74	45 - 120
Chrysene	1.67	1.226			mg/Kg		74	43 - 120
Dibenz(a,h)anthracene	1.67	1.228			mg/Kg		74	32 - 128
Fluoranthene	1.67	1.282			mg/Kg		77	46 - 120
Fluorene	1.67	1.215			mg/Kg		73	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.239			mg/Kg		74	41 - 121
Naphthalene	1.67	1.126			mg/Kg		68	32 - 120
2-Methylnaphthalene	1.67	1.092			mg/Kg		65	28 - 120
1-Methylnaphthalene	1.67	1.052			mg/Kg		63	32 - 120
Surrogate	LCS		%Recovery	Qualifier	Limits		D	%Rec
	Result	Qualifier			29 - 120			
2-Fluorobiphenyl (Surr)	48							
Terphenyl-d14 (Surr)	66				13 - 120			
Nitrobenzene-d5 (Surr)	43				27 - 120			

Method: Moisture - Percent Moisture

Lab Sample ID: 490-3417-F-1 DU

Matrix: Solid

Analysis Batch: 10413

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU			D	RPD	Limit
			Result	Qualifier	Unit			
Percent Moisture	4.7		4.7		%		0.2	20
Percent Solids	95		95		%		0.01	20

QC Association Summary

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

TestAmerica Job ID: 490-3423-1

GC/MS VOA

Prep Batch: 10429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-3423-1	1262 Dove	Total/NA	Solid	5035	
490-3423-2	1276 Albatross	Total/NA	Solid	5035	
490-3423-3	261 Beech-1a	Total/NA	Solid	5035	
490-3423-4	261 Beech-2a	Total/NA	Solid	5035	
490-3423-5	261 Beech-3a	Total/NA	Solid	5035	
490-3423-6	260 Beech-1a	Total/NA	Solid	5035	
490-3423-7	260 Beech-2	Total/NA	Solid	5035	

Prep Batch: 10430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-3423-3	261 Beech-1a	Total/NA	Solid	5035	

Analysis Batch: 10484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-3423-1	1262 Dove	Total/NA	Solid	8260B	10429
490-3423-2	1276 Albatross	Total/NA	Solid	8260B	10429
490-3423-3	261 Beech-1a	Total/NA	Solid	8260B	10429
490-3423-5	261 Beech-3a	Total/NA	Solid	8260B	10429
490-3423-7	260 Beech-2	Total/NA	Solid	8260B	10429
LCS 490-10484/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-10484/8	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-10484/10	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 10688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-3358-B-17-D MS	Matrix Spike	Total/NA	Solid	8260B	10705
490-3358-B-17-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	10705
490-3423-4	261 Beech-2a	Total/NA	Solid	8260B	10429
490-3423-6	260 Beech-1a	Total/NA	Solid	8260B	10429
LCS 490-10688/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-10688/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-10688/6	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 10705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-3358-B-17-D MS	Matrix Spike	Total/NA	Solid	5035	
490-3358-B-17-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
490-3358-B-26-C MS	Matrix Spike	Total/NA	Solid	5035	
490-3358-B-26-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 10914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-3358-B-26-C MS	Matrix Spike	Total/NA	Solid	8260B	10705
490-3358-B-26-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	10705
490-3423-3	261 Beech-1a	Total/NA	Solid	8260B	10430
LCS 490-10914/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-10914/8	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-10914/10	Method Blank	Total/NA	Solid	8260B	
MB 490-10914/11	Method Blank	Total/NA	Solid	8260B	



QC Association Summary

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

TestAmerica Job ID: 490-3423-1

GC/MS Semi VOA

Analysis Batch: 10956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-3423-1	1262 Dove	Total/NA	Solid	8270D	11020
490-3423-2	1276 Albatross	Total/NA	Solid	8270D	11020
490-3423-3	261 Beech-1a	Total/NA	Solid	8270D	11020
490-3423-4	261 Beech-2a	Total/NA	Solid	8270D	11020
490-3423-5	261 Beech-3a	Total/NA	Solid	8270D	11020
490-3423-6	260 Beech-1a	Total/NA	Solid	8270D	11020
490-3423-7	260 Beech-2	Total/NA	Solid	8270D	11020
LCS 490-11020/2-A	Lab Control Sample	Total/NA	Solid	8270D	11020
MB 490-11020/1-A	Method Blank	Total/NA	Solid	8270D	11020

Prep Batch: 11020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-3423-1	1262 Dove	Total/NA	Solid	3550C	11020
490-3423-2	1276 Albatross	Total/NA	Solid	3550C	11020
490-3423-3	261 Beech-1a	Total/NA	Solid	3550C	11020
490-3423-4	261 Beech-2a	Total/NA	Solid	3550C	11020
490-3423-5	261 Beech-3a	Total/NA	Solid	3550C	11020
490-3423-6	260 Beech-1a	Total/NA	Solid	3550C	11020
490-3423-7	260 Beech-2	Total/NA	Solid	3550C	11020
LCS 490-11020/2-A	Lab Control Sample	Total/NA	Solid	3550C	11020
MB 490-11020/1-A	Method Blank	Total/NA	Solid	3550C	11020

General Chemistry

Analysis Batch: 10413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-3417-F-1 DU	Duplicate	Total/NA	Solid	Moisture	
490-3423-1	1262 Dove	Total/NA	Solid	Moisture	
490-3423-2	1276 Albatross	Total/NA	Solid	Moisture	
490-3423-3	261 Beech-1a	Total/NA	Solid	Moisture	
490-3423-4	261 Beech-2a	Total/NA	Solid	Moisture	
490-3423-5	261 Beech-3a	Total/NA	Solid	Moisture	
490-3423-6	260 Beech-1a	Total/NA	Solid	Moisture	
490-3423-7	260 Beech-2	Total/NA	Solid	Moisture	

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Lab Chronicle

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

TestAmerica Job ID: 490-3423-1

Client Sample ID: 1262 Dove

Date Collected: 07/30/12 16:15

Date Received: 08/04/12 08:30

Lab Sample ID: 490-3423-1

Matrix: Solid

Percent Solids: 97.0

Prep Type	Batch	Batch	Run	Dilution Factor	Batch	Prepared or Analyzed	Analyst	Lab
Prep Type	Type	Method			Number			
Total/NA	Prep	5035			10429	08/04/12 15:53	MH	TAL NSH
Total/NA	Analysis	8260B		1	10484	08/06/12 16:37	KK	TAL NSH
Total/NA	Prep	3550C			11020	08/08/12 12:38	DB	TAL NSH
Total/NA	Analysis	8270D		1	10956	08/08/12 20:43	WS	TAL NSH
Total/NA	Analysis	Moisture		1	10413	08/04/12 13:58	ML	TAL NSH

Client Sample ID: 1276 Albatross

Date Collected: 08/01/12 10:45

Date Received: 08/04/12 08:30

Lab Sample ID: 490-3423-2

Matrix: Solid

Percent Solids: 77.0

Prep Type	Batch	Batch	Run	Dilution Factor	Batch	Prepared or Analyzed	Analyst	Lab
Prep Type	Type	Method			Number			
Total/NA	Prep	5035			10429	08/04/12 15:53	MH	TAL NSH
Total/NA	Analysis	8260B		1	10484	08/06/12 17:06	KK	TAL NSH
Total/NA	Prep	3550C			11020	08/08/12 12:38	DB	TAL NSH
Total/NA	Analysis	8270D		1	10956	08/08/12 21:04	WS	TAL NSH
Total/NA	Analysis	Moisture		1	10413	08/04/12 13:58	ML	TAL NSH

Client Sample ID: 261 Beech-1a

Date Collected: 08/01/12 15:00

Date Received: 08/04/12 08:30

Lab Sample ID: 490-3423-3

Matrix: Solid

Percent Solids: 74.4

Prep Type	Batch	Batch	Run	Dilution Factor	Batch	Prepared or Analyzed	Analyst	Lab
Prep Type	Type	Method			Number			
Total/NA	Prep	5035			10429	08/04/12 15:53	MH	TAL NSH
Total/NA	Analysis	8260B		1	10484	08/06/12 17:35	KK	TAL NSH
Total/NA	Prep	5035			10430	08/04/12 15:59	MH	TAL NSH
Total/NA	Analysis	8260B		1	10914	08/08/12 16:28	KK	TAL NSH
Total/NA	Prep	3550C			11020	08/08/12 12:38	DB	TAL NSH
Total/NA	Analysis	8270D		1	10956	08/08/12 21:24	WS	TAL NSH
Total/NA	Analysis	Moisture		1	10413	08/04/12 13:58	ML	TAL NSH

Client Sample ID: 261 Beech-2a

Date Collected: 08/01/12 15:15

Date Received: 08/04/12 08:30

Lab Sample ID: 490-3423-4

Matrix: Solid

Percent Solids: 73.9

Prep Type	Batch	Batch	Run	Dilution Factor	Batch	Prepared or Analyzed	Analyst	Lab
Prep Type	Type	Method			Number			
Total/NA	Prep	5035			10429	08/04/12 15:53	MH	TAL NSH
Total/NA	Analysis	8260B		1	10688	08/07/12 13:34	KK	TAL NSH
Total/NA	Prep	3550C			11020	08/08/12 12:38	DB	TAL NSH
Total/NA	Analysis	8270D		1	10956	08/08/12 21:45	WS	TAL NSH
Total/NA	Analysis	Moisture		1	10413	08/04/12 13:58	ML	TAL NSH

Lab Chronicle

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

TestAmerica Job ID: 490-3423-1

Client Sample ID: 261 Beech-3a

Date Collected: 08/01/12 15:30

Date Received: 08/04/12 08:30

Lab Sample ID: 490-3423-5

Matrix: Solid

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10429	08/04/12 15:53	MH	TAL NSH
Total/NA	Analysis	8260B		1	10484	08/06/12 18:34	KK	TAL NSH
Total/NA	Prep	3550C			11020	08/08/12 12:38	DB	TAL NSH
Total/NA	Analysis	8270D		1	10956	08/08/12 22:06	WS	TAL NSH
Total/NA	Analysis	Moisture		1	10413	08/04/12 13:58	ML	TAL NSH

Client Sample ID: 260 Beech-1a

Date Collected: 08/01/12 16:00

Date Received: 08/04/12 08:30

Lab Sample ID: 490-3423-6

Matrix: Solid

Percent Solids: 71.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10429	08/04/12 15:53	MH	TAL NSH
Total/NA	Analysis	8260B		1	10688	08/07/12 14:03	KK	TAL NSH
Total/NA	Prep	3550C			11020	08/08/12 12:38	DB	TAL NSH
Total/NA	Analysis	8270D		1	10956	08/08/12 22:26	WS	TAL NSH
Total/NA	Analysis	Moisture		1	10413	08/04/12 13:58	ML	TAL NSH

Client Sample ID: 260 Beech-2

Date Collected: 08/02/12 10:45

Date Received: 08/04/12 08:30

Lab Sample ID: 490-3423-7

Matrix: Solid

Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10429	08/04/12 15:53	MH	TAL NSH
Total/NA	Analysis	8260B		1	10484	08/06/12 19:32	KK	TAL NSH
Total/NA	Prep	3550C			11020	08/08/12 12:38	DB	TAL NSH
Total/NA	Analysis	8270D		1	10956	08/08/12 22:47	WS	TAL NSH
Total/NA	Analysis	Moisture		1	10413	08/04/12 13:58	ML	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: 490-3423-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

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Certification Summary

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

TestAmerica Job ID: 490-3423-1

Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	ACIL		393	10-30-12
Alabama	ISO/IEC 17025		0453.07	12-31-13
Alaska (UST)	State Program	4	41150	05-31-13
Arizona	State Program	10	UST-087	07-24-13
Arkansas DEQ	State Program	9	AZ0473	05-05-13
California	State Program	6	88-0737	04-25-13
Canadian Assoc Lab Accred (CALA)	NELAC	9	1168CA	10-31-12
Colorado	Canada		3744	03-08-14
Connecticut	State Program	8	N/A	02-28-13
Florida	State Program	1	PH-0220	12-31-13
Illinois	NELAC	4	E87358	06-30-13
Iowa	State Program	5	200010	12-09-12
Kansas	NELAC	7	131	05-01-14
Kentucky	State Program	7	E-10229	10-31-12
Kentucky (UST)	State Program	4	90038	12-31-12
Louisiana	NELAC	4	19	09-15-13
Louisiana	NELAC	6	LA110014	12-31-12
Maryland	State Program	6	30613	06-30-13
Massachusetts	State Program	3	316	03-31-13
Minnesota	NELAC	1	M-TN032	06-30-13
Mississippi	State Program	5	047-999-345	12-31-12
Montana (UST)	State Program	4	N/A	06-30-13
Nevada	State Program	8	TN00032	01-01-15
New Hampshire	NELAC	9	TN00032	07-31-13
New Jersey	NELAC	1	2963	10-09-13
New York	NELAC	2	TN965	06-30-13
North Carolina DENR	State Program	2	11342	04-01-13
North Dakota	State Program	4	387	12-31-12
Ohio VAP	State Program	8	R-146	06-30-13
Oklahoma	State Program	5	CL0033	01-19-14
Oregon	NELAC	6	9412	08-31-13
Pennsylvania	State Program	10	TN200001	04-30-13
Rhode Island	NELAC	3	68-00585	06-30-13
South Carolina	State Program	1	LA000268	06-30-13
South Carolina	State Program	4	84009 (001)	12-30-12
Tennessee	State Program	4	84009 (002)	02-28-13
Texas	NELAC	4	2008	02-23-14
USDA	Federal	6	T104704077-09-TX	02-23-14
Utah	NELAC	8	S-48469	08-31-13
Virginia	NELAC	3	TAN	11-02-13
Washington	State Program	10	460152	06-14-13
West Virginia DEP	State Program	3	C789	07-19-13
Wisconsin	State Program	5	219	02-28-13
Wyoming (UST)	A2LA	5	998020430	08-31-13
		8	453.07	12-31-13

COOLER RECEIPT FORM



490-3423 Chain of

Cooler Received/Opened On 8/4/2012 @ 08:301. Tracking # 6977 (last 4 digits, FedEx)Courier: FEDEX IR Gun ID 973101662. Temperature of rep. sample or temp blank when opened: 5.9 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES...NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: One front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) DA7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

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 multiple coolers, sequence # 1I certify that I unloaded the cooler and answered questions 7-14 (initial) FB

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

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

17. Were custody papers properly filled out (ink, signed, etc)? YES...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 (initial) FBI certify that I attached a label with the unique LIMS number to each container (initial) FB

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

Login Sample Receipt Checklist

Client: Environmental Enterprise Group

Job Number: 490-3423-1

Login Number: 3423

List Source: TestAmerica Nashville

List Number: 1

Creator: Brothers, James

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ATTACHMENT A

UST Certificate of Disposal

CONTRACTOR

Small Business Group, Inc.
10179 Highway 78
Ladson, SC 29456

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

TANK ID & LOCATION

UST 260Beech-1, 260 Beech Drive, Laurel Bay Housing Area, MCAS Beaufort, S.C.

DISPOSAL LOCATION

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

<u>TYPE OF TANK</u>	<u>SIZE (GAL)</u>
----------------------------	--------------------------

Steel	280
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CLEANING/DISPOSAL METHOD

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

DISPOSAL CERTIFICATION

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

T. L. Wallace / 10/10/12
(Name) (Date)



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1		
3. Generator's Mailing Address: MCAS, BEAUFORT LAUREL BAY HOUSING BEAUFORT, SC 29907 4. Generator's Phone 843-228-6461	Generator's Site Address (If different than mailing):		A. Manifest Number WMNA	00316829	
			B. State Generator's ID:		
5. Transporter 1 Company Name EEG, INC.	6. US EPA ID Number		C. State Transporter's ID		
7. Transporter 2 Company Name	8. US EPA ID Number		D. Transporter's Phone 843-879-0411		
9. Designated Facility Name and Site Address HICKORY HILL LANDFILL 2621 LOW COUNTRY ROAD RIDGELEND, SC 29936	10. US EPA ID Number		E. State Transporter's ID		
			F. Transporter's Phone		
G E N E R A T O R 11. Description of Waste Materials	12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. HEATING OIL TANKS FILLED WITH SAND WM Profile # 102655SC	No.	Type			
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					
J. Additional Descriptions for Materials Listed Above LAST's from: 1) 1353 Cardinal 2) 1366 Cardinal	K. Disposal Location				
	Cell	Grid	Level		
15. Special Handling Instructions and Additional Information 3) 616 Dahlia 4) 614 Dahlia 5) 607 Dahlia 6) 260 Beech - 2					
Purchase Order #	EMERGENCY CONTACT / PHONE NO.:				
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.					
Printed Name	Signature "On behalf of"		Month	Day	Year
17. Transporter 1 Acknowledgement of Receipt of Materials Printed Name	Signature		8	22	12
Pratt Shaw	P. Pratt Shaw				
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed Name	Signature		Month	Day	Year
James Baldwin	James Baldwin		8	23	12
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.					
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.					
Printed Name	Signature		Month	Day	Year
Ruth Monelus	Ruth Monelus		8	23	12

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY

Appendix C
Regulatory Correspondence



Catherine B. Templeton, Director

Promoting and protecting 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

Promoting and protecting the health of the public and the environment

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

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

212 Balsam	503 Laurel Bay
219 Balsam	508 Laurel Bay
260 Beech Tank 1	510 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	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
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	