SUMMARY REPORT
533 DAHLIA DRIVE (FORMERLY 636 DAHLIA DRIVE)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC

Revision: 0 Prepared for:

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

and



Naval Facilities Engineering Command Atlantic 9324 Virginia Avenue Norfolk, Virginia 23511-3095 SUMMARY REPORT
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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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Summary Report 533 Dahlia Drive (Formerly 636 Dahlia Drive) Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort June 2021

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 533 Dahlia Drive (Formerly 636 Dahlia Drive). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

1.1 Background Information

The LBMH area is located approximately 3.5 miles west of MCAS Beaufort. The area is approximately 970 acres in size and serves as an enlisted and officer family housing area. The area is configured with single family and duplex residential structures, and includes recreation, open space, and community facilities. The community includes approximately 1,300 housing units, including legacy Capehart style homes and newer duplex style homes. The housing area





is bordered on the west by salt marshes and the Broad River, and to the north, east and south by uplands. Forested areas lie along the northern and northeastern borders.

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 533 Dahlia Drive (Formerly 636 Dahlia Drive). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 636 Dahlia Drive* (MCAS Beaufort, 2015). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On December 10, 2014, a single 280 gallon heating oil UST was removed from the rear patio area at 533 Dahlia Drive (Formerly 636 Dahlia Drive). The former UST location is indicated on Figures 1 and 2 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was





5'9" bgs and a single soil sample was collected from that depth. The sample was collected from the fill port side of the former UST to represent a worst case scenario.

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

2.2 Soil Analytical Results

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

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 533 Dahlia Drive (Formerly 636 Dahlia Drive) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 533 Dahlia Drive (Formerly 636 Dahlia Drive). This NFA determination was obtained in a letter dated July 1, 2015. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2015. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 636 Dahlia Drive, Laurel Bay Military Housing Area, March 2015.

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 533 Dahlia Drive (Formerly 636 Dahlia Drive) Laurel Bay Military Housing Area Marine Corps Air Station Beaufort

Beaufort, South Carolina

Constituent	SCDHEC RBSLs (1)	Results Sample Collected 12/10/14					
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)							
Benzene	0.003	ND					
Ethylbenzene	1.15	ND					
Naphthalene	0.036	ND					
Toluene	0.627	ND					
Xylenes, Total	13.01	ND					
Semivolatile Organic Compounds Ana	alyzed by EPA Method 8270D (mg/kg)						
Benzo(a)anthracene	0.66	0.212					
Benzo(b)fluoranthene	0.66	0.150					
Benzo(k)fluoranthene	0.66	0.0704					
Chrysene	0.66	0.242					
Dibenz(a,h)anthracene	0.66	ND					

Notes:

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - milligram per kilogram

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

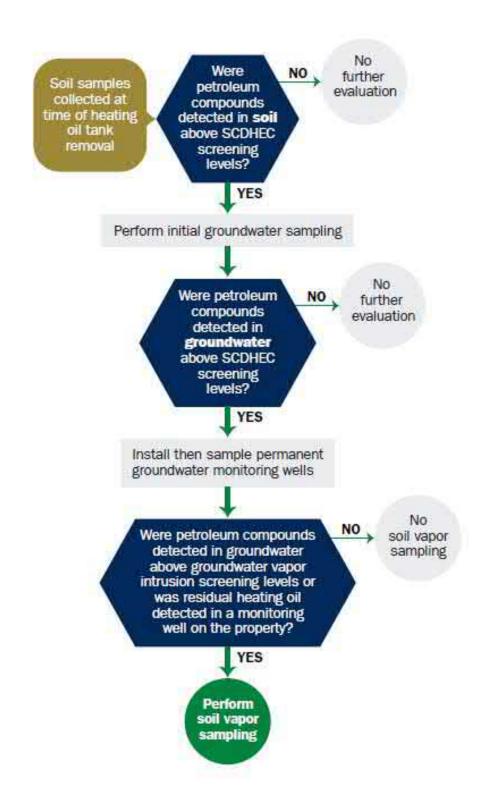
RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

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

Appendix A Multi-Media Selection Process for LBMH





Appendix A - Multi-Media Selection Process for LBMH

Appendix B UST Assessment Report



South Carolina Department of Health and Environmental Control (SCDHEC)

Underground Storage Tank (UST) Assessment Report



SC DHEC - Bureau of Land & Waste Management Submit Completed Form To: UST Program SCDHEC 2600 Bull Street Columbia, South Carolina 29201 Telephone (803) 896-7957

I. OWNERSHIP OF UST (S)

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

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
Facility Name or Company Site Identifier
636 Dahlia Drive, Laurel Bay Military Housing Area
Street Address or State Road (as applicable)
Beaufort, Beaufort
City

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.)						
I DO / DO NOT wish to participate in the SUPERB Program. (Circle one.)						
I DO / DO NOT wish to participate in the SUPERB Program. (Circle one.) V. CERTIFICATION (To be signed by the UST owner)						
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						
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.						
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.)						
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						
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:						

VI. UST INFORMATION	
	636Dahlia
Product(ex. Gas, Kerosene)	Heating oil
Capacity(ex. 1k, 2k)	280 gal
Age	Late 1950s
Construction Material(ex. Steel, FRP)	Steel
	Mid 1980s
Month/Year of Last Use	5,9,1
Depth (ft.) To Base of Tank	No
Spill Prevention Equipment Y/N	
Overfill Prevention Equipment Y/N	No
Method of Closure Removed/Filled	Removed
Date Tanks Removed/Filled	12/10/14
Visible Corrosion or Pitting Y/N	Yes
Visible Holes Y/N	Yes
Method of disposal for any USTs removed from t UST 636Dahlia was removed from t	
Subtitle "D" landfill. See Attac	
Method of disposal for any liquid petroleum, slud	lges, or wastewaters removed from the USTs (at
disposal manifests) UST 636Dahlia had been previousl	
If any corrosion, pitting, or holes were observed, a Corrosion, pitting and holes we	

VII. PIPING INFORMATION

	636Dahlia	
	Steel	\vdash
Construction Material(ex. Steel, FRP)	& Copper	
Distance from UST to Dispenser	N/A	
Number of Dispensers	N/A	
Type of System Pressure or Suction	Suction	
Was Piping Removed from the Ground? Y/N	No	
Visible Corrosion or Pitting Y/N	Yes	
Visible Holes Y/N	No	
Age	Late 1950s	
If any corrosion, pitting, or holes were observed,	describe the location and extent for each piping	z rı
~ ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		
-	d on the surface of the steel ve	en'
pipe. Copper supply and return		ent
-		en!
-		ent
pipe. Copper supply and return	lines were sound.	ent
pipe. Copper supply and return in the supply a	RIPTION AND HISTORY	ent
viii. BRIEF SITE DESCR	RIPTION AND HISTORY CONSTRUCTED OF SINGLE WALL STEEL	<u>ent</u>
VIII. BRIEF SITE DESCRETATE USTs at the residences are cand formerly contained fuel oil	RIPTION AND HISTORY Constructed of single wall steel for heating. These USTs were	ent
viii. BRIEF SITE DESCR	RIPTION AND HISTORY Constructed of single wall steel for heating. These USTs were	ent
VIII. BRIEF SITE DESCRETATE USTs at the residences are cand formerly contained fuel oil	RIPTION AND HISTORY Constructed of single wall steel for heating. These USTs were	ent
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VIII. BRIEF SITE DESCRETATE USTs at the residences are cand formerly contained fuel oil	RIPTION AND HISTORY Constructed of single wall steel for heating. These USTs were	ent.

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#
636 Dahlia	Excav at fill end	Soil	Sandy	5'9"	12/10/14 1115 hrs	P. Shaw	
				:			
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

^{* =} Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

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

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

XII. RECEPTORS

Yes No

		1 65	110
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?	*X	
	*Stormwater drain	lage o	anal
	If yes, indicate type of receptor, distance, and direction on site map.		
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		Х
	If yes, indicate type of well, distance, and direction on site map.		
C.	Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?		Х
	If yes, indicate type of structure, distance, and direction on site map.		
D.	Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? *Sewer, water, electricable & fiber optic	*X city,	
	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)

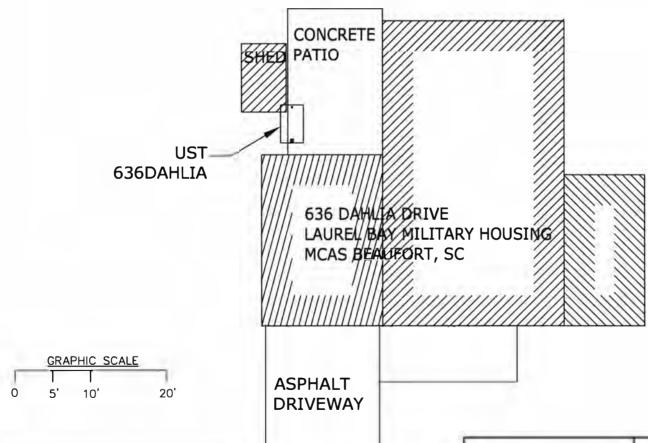


STORMWATER DRAINAGE CANAL ≈ 900'

UST 636DAHLIA WAS

33" BELOW GRADE.





SBG-EEG

7301 RIVERS AVE., SUITE 245 N. CHARLESTON SC 29406-9643 (843) 573-7140

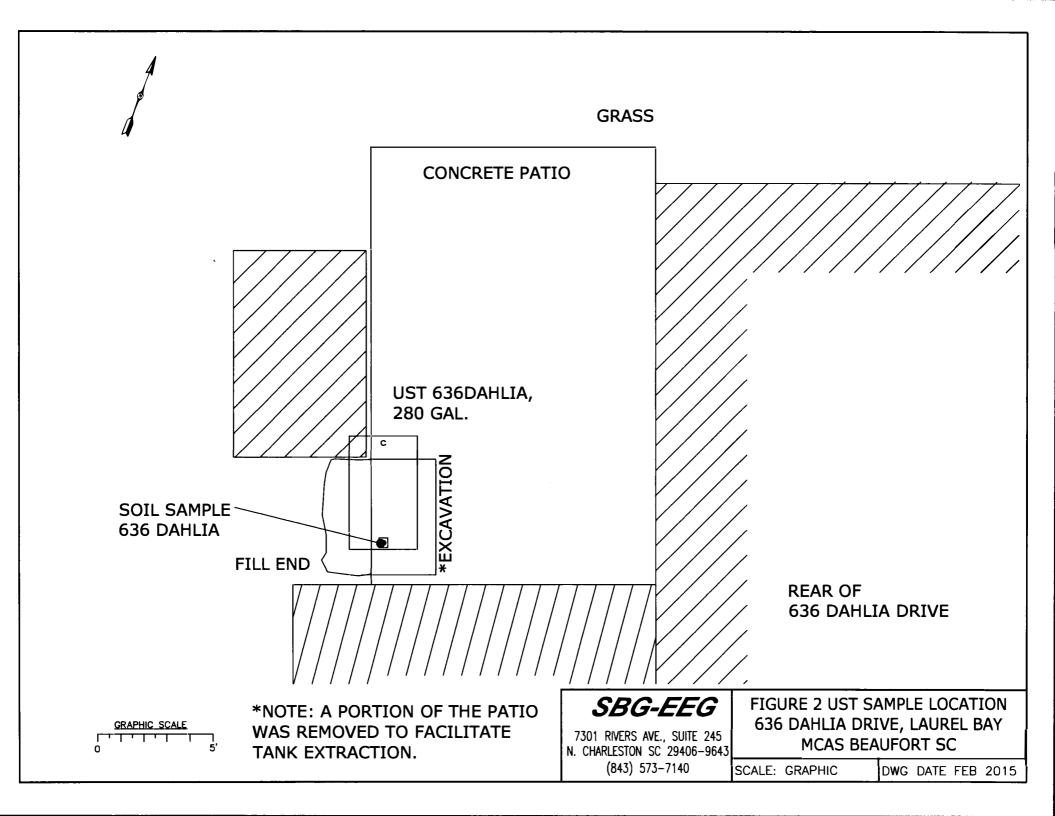
SCALE: GRAPHIC

DWG DATE FEB 2015

FIGURE 1 SITE MAP

636 DAHLIA DRIVE, LAUREL BAY

MCAS BEAUFORT SC





Picture 1: Location of UST 636Dahlia.



Picture 2: UST 636Dahlia excavation.



Picture 3: Tank pit from a different angle.



Picture 4: Site after tank removal is completed.

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.

	626D-1-1-1				
CoC UST	636Dahlia				
Benzene	ND				
Toluene	ND			 	
Ethylbenzene	ND				
Xylenes	ND		L		
Naphthalene	ND				
Benzo (a) anthracene	0.212 mg/kg				
Benzo (b) fluoranthene	0.150 mg/kg		_		
Benzo (k) fluoranthene	0.0704 mg/kg				
Chrysene	0.242 mg/kg				
Dibenz (a, h) anthracene	ND				
TPH (EPA 3550)					
		 	=	· · · · · ·	_
CoC					
Benzene			·		
Toluene					
Ethylbenzene			<u> </u>		
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/I)	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	_		1		
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)



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: 490-68644-1

Client Project/Site: Laurel Bay Housing Project

For

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

Attn: Tom McElwee

Kuth Haye

Authorized for release by: 12/22/2014 2:06:56 PM

Ken Hayes, Project Manager II (615)301-5035

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

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Sample Summary

Matrix

Soil

Soil

Soil

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

Lab Sample ID

490-68644-1

490-68644-2

490-68644-3

Client Sample ID

487 Laurel Bay

612 Dahlia

636 Dahlia

TestAmerica Job ID: 490-68644-1

Collected

12/08/14 14:00

12/09/14 13:15

12/10/14 11:15

၁

Received

12/12/14 08:45

12/12/14 08:45

12/12/14 08:45















Case Narrative

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-68644-1

Job ID: 490-68644-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-68644-1

Comments

No additional comments.

Receipt

The samples were received on 12/12/2014 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Definitions/Glossary

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

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 490-68644-1

8

Glossary

TEQ

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Client Sample Results

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-68644-1

Client Sample ID: 487 Laurel Bay

Date Collected: 12/08/14 14:00 Date Received: 12/12/14 08:45 Lab Sample ID: 490-68644-1

Matrix: Soil

Percent Solids: 95.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00260	0.000872	mg/Kg	¤	12/13/14 19:04	12/16/14 21:28	1
Ethylbenzene	ND		0.00260	0.000872	mg/Kg	¤	12/13/14 19:04	12/16/14 21:28	1
Naphthalene	ND		0.00651	0.00221	mg/Kg	¤	12/13/14 19:04	12/16/14 21:28	1
Toluene	ND		0.00260	0.000963	mg/Kg	¤	12/13/14 19:04	12/16/14 21:28	1
Xylenes, Total	ND		0.00390	0.000872	mg/Kg	¤	12/13/14 19:04	12/16/14 21:28	t
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		70 - 130				12/13/14 19:04	12/16/14 21:28	7
4-Bromofluorobenzene (Surr)	115		70 - 130				12/13/14 19:04	12/16/14 21:28	1
Dibromofluoromethane (Surr)	103		70 _ 130				12/13/14 19:04	12/16/14 21:28	Ť
Toluene-d8 (Surr)	103		70 - 130				12/13/14 19:04	12/16/14 21:28	f
Method: 8270D - Semivolatile	Organic Compou	nds (GC/MS	5)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0665	0.00992	mg/Kg	Ħ	12/17/14 12:47	12/17/14 22:56	1
Acenaphthylene	ND		0.0665	0.00893	mg/Kg	¤	12/17/14 12:47	12/17/14 22:56	1
Anthracene	ND		0.0665	0.00893	mg/Kg	¤	12/17/14 12:47	12/17/14 22:56	1
Benzo[a]anthracene	ND		0.0665	0.0149	mg/Kg	Ħ	12/17/14 12:47	12/17/14 22:56	1
Benzo[a]pyrene	ND		0.0665	0.0119	mg/Kg	Ħ	12/17/14 12:47	12/17/14 22:56	1
Benzo[b]fluoranthene	ND		0.0665	0.0119	mg/Kg	¤	12/17/14 12:47	12/17/14 22:56	10
Benzo[g,h,i]perylene	ND		0.0665	0.00893	mg/Kg	¤	12/17/14 12:47	12/17/14 22:56	1
Benzo[k]fluoranthene	ND		0.0665	0.0139	mg/Kg	Ħ	12/17/14 12:47	12/17/14 22:56	1
1-Methylnaphthalene	ND		0.0665	0.0139	mg/Kg	Ħ	12/17/14 12:47	12/17/14 22:56	1
Pyrene	ND		0.0665	0.0119	mg/Kg	¤	12/17/14 12:47	12/17/14 22:56	1
Phenanthrene	ND		0.0665	0.00893	mg/Kg	¤	12/17/14 12:47	12/17/14 22:56	10
Chrysene	ND		0.0665	0.00893	mg/Kg	¤	12/17/14 12:47	12/17/14 22:56	1
Dibenz(a,h)anthracene	ND		0.0665	0.00695	mg/Kg	¤	12/17/14 12:47	12/17/14 22:56	1
Fluoranthene	ND		0.0665	0.00893	mg/Kg	Ħ	12/17/14 12:47	12/17/14 22:56	1
Fluorene	ND		0.0665	0.0119	mg/Kg	Ħ	12/17/14 12:47	12/17/14 22:56	1
Indeno[1,2,3-cd]pyrene	ND		0.0665	0.00992	mg/Kg	Ħ	12/17/14 12:47	12/17/14 22:56	1
Naphthalene	ND		0.0665	0.00893	mg/Kg	Ħ	12/17/14 12:47	12/17/14 22:56	1
2-Methylnaphthalene	ND		0.0665	0.0159	mg/Kg	¤	12/17/14 12:47	12/17/14 22:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	62		29 - 120				12/17/14 12:47	12/17/14 22:56	1
Terphenyl-d14 (Surr)	81		13 _ 120				12/17/14 12:47	12/17/14 22:56	Ť.
Nitrobenzene-d5 (Surr)	64		27 - 120				12/17/14 12:47	12/17/14 22:56	7
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95		0.10	0.10	%			12/15/14 09:11	1.0

Client Sample Results

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

Client Sample ID: 612 Dahlia Date Collected: 12/09/14 13:15

Date Received: 12/12/14 08:45

TestAmerica Job ID: 490-68644-1

Lab Sample ID: 490-68644-2

Percent

Matrix: Soil	
Solids: 94.3	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00242	0.000811	mg/Kg	¤	12/13/14 19:04	12/16/14 21:59	1
Ethylbenzene	ND		0.00242	0.000811	mg/Kg	¤	12/13/14 19:04	12/16/14 21:59	1
Naphthalene	ND		0.00605	0.00206	mg/Kg	¤	12/13/14 19:04	12/16/14 21:59	1
Toluene	ND		0.00242	0.000895	mg/Kg	¤	12/13/14 19:04	12/16/14 21:59	10
Xylenes, Total	ND		0.00363	0.000811	mg/Kg	¤	12/13/14 19:04	12/16/14 21:59	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		70 - 130				12/13/14 19:04	12/16/14 21:59	1
4-Bromofluorobenzene (Surr)	121		70 - 130				12/13/14 19:04	12/16/14 21:59	1
Dibromofluoromethane (Surr)	103		70 - 130				12/13/14 19:04	12/16/14 21:59	1.
Toluene-d8 (Surr)	103		70 - 130				12/13/14 19:04	12/16/14 21:59	*
Method: 8270D - Semivolatile	Organic Compou	nds (GC/MS	5)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0631	0.00942	mg/Kg	¤	12/17/14 12:47	12/17/14 23:19	- 1
Acenaphthylene	ND		0.0631	0.00848	mg/Kg	¤	12/17/14 12:47	12/17/14 23:19	1
Anthracene	ND		0.0631	0.00848	mg/Kg	n	12/17/14 12:47	12/17/14 23:19	1.
Benzo[a]anthracene	ND		0.0631	0.0141	mg/Kg	n	12/17/14 12:47	12/17/14 23:19	1
Benzo[a]pyrene	ND		0.0631	0.0113	mg/Kg	¤	12/17/14 12:47	12/17/14 23:19	1
Benzo[b]fluoranthene	ND		0.0631	0.0113	mg/Kg	n	12/17/14 12:47	12/17/14 23:19	
Benzo[g,h,i]perylene	ND		0.0631	0.00848	mg/Kg	¤	12/17/14 12:47	12/17/14 23:19	1
Benzo[k]fluoranthene	ND		0.0631	0.0132	mg/Kg	¤	12/17/14 12:47	12/17/14 23:19	1
1-Methylnaphthalene	ND		0.0631	0.0132	mg/Kg	¤	12/17/14 12:47	12/17/14 23:19	1
Pyrene	ND		0.0631	0.0113	mg/Kg	¤	12/17/14 12:47	12/17/14 23:19	
Phenanthrene	ND		0.0631	0.00848	mg/Kg	n	12/17/14 12:47	12/17/14 23:19	1
Chrysene	ND		0.0631	0.00848	mg/Kg	n	12/17/14 12:47	12/17/14 23:19	
Dibenz(a,h)anthracene	ND		0.0631	0.00660	mg/Kg	n	12/17/14 12:47	12/17/14 23:19	
Fluoranthene	ND		0.0631	0.00848	mg/Kg	¤	12/17/14 12:47	12/17/14 23:19	
Fluorene	ND		0.0631	0.0113	mg/Kg	¤	12/17/14 12:47	12/17/14 23:19	1
Indeno[1,2,3-cd]pyrene	ND		0.0631	0.00942	mg/Kg	¤	12/17/14 12:47	12/17/14 23:19	1
Naphthalene	ND		0.0631	0.00848	mg/Kg	Ħ	12/17/14 12:47	12/17/14 23:19	1
2-Methylnaphthalene	ND		0.0631	0.0151	mg/Kg	¤	12/17/14 12:47	12/17/14 23:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	61		29 - 120				12/17/14 12:47	12/17/14 23:19	
Terphenyl-d14 (Surr)	71		13 - 120				12/17/14 12:47	12/17/14 23:19	
Nitrobenzene-d5 (Surr)	64		27 - 120				12/17/14 12:47	12/17/14 23:19	*
General Chemistry			_			_		Austral	D'1 F
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94		0.10	0.10	%			12/15/14 09:11	

Client Sample Results

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

TestAmerica Job ID: 490-68644-1

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Client Sample ID: 636 Dahlia

Date Collected: 12/10/14 11:15 Date Received: 12/12/14 08:45 Lab Sample ID: 490-68644-3

Matrix: Soil

Percent Solids: 86.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00220	0.000738	mg/Kg	Ħ	12/13/14 19:04	12/16/14 22:31	1
Ethylbenzene	ND		0.00220	0.000738	mg/Kg	¤	12/13/14 19:04	12/16/14 22:31	. 1
Naphthalene	ND		0.00550	0.00187	mg/Kg	¤	12/13/14 19:04	12/16/14 22:31	1
Toluene	ND		0.00220	0.000815	mg/Kg	¤	12/13/14 19:04	12/16/14 22:31	1
Xylenes, Total	ND		0.00330	0.000738	mg/Kg	n	12/13/14 19:04	12/16/14 22:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		70 - 130				12/13/14 19:04	12/16/14 22:31	
4-Bromofluorobenzene (Surr)	122		70 - 130				12/13/14 19:04	12/16/14 22:31	t
Dibromofluoromethane (Surr)	104		70 - 130				12/13/14 19:04	12/16/14 22:31	1
Toluene-d8 (Surr)	104		70 - 130				12/13/14 19:04	12/16/14 22:31	
Method: 8270D - Semivolatile (Organic Compou	nds (GC/MS	6)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0666	0.00994	mg/Kg	n	12/17/14 12:47	12/17/14 23:42	1
Acenaphthylene	ND		0.0666	0.00895	mg/Kg	Ħ	12/17/14 12:47	12/17/14 23:42	1
Anthracene	ND		0.0666	0.00895	mg/Kg	Ħ	12/17/14 12:47	12/17/14 23:42	1
Benzo[a]anthracene	0.212		0.0666	0.0149	mg/Kg	¤	12/17/14 12:47	12/17/14 23:42	1
Benzo[a]pyrene	0.0768		0.0666	0.0119	mg/Kg	¤	12/17/14 12:47	12/17/14 23:42	1
Benzo[b]fluoranthene	0.150		0.0666	0.0119	mg/Kg	¤	12/17/14 12:47	12/17/14 23:42	1
Benzo[g,h,i]perylene	ND		0.0666	0.00895	mg/Kg	¤	12/17/14 12:47	12/17/14 23:42	1
Benzo[k]fluoranthene	0.0704		0.0666	0.0139	mg/Kg	Ħ	12/17/14 12:47	12/17/14 23:42	1
1-Methylnaphthalene	ND		0.0666	0.0139	mg/Kg	n	12/17/14 12:47	12/17/14 23:42	10
Pyrene	0.209		0.0666	0.0119	mg/Kg	Ħ	12/17/14 12:47	12/17/14 23:42	1
Phenanthrene	ND		0.0666	0.00895	mg/Kg	n	12/17/14 12:47	12/17/14 23:42	1
Chrysene	0.242		0.0666	0.00895	mg/Kg	n	12/17/14 12:47	12/17/14 23:42	1
Dibenz(a,h)anthracene	ND		0.0666	0.00696	mg/Kg	n	12/17/14 12:47	12/17/14 23:42	1
Fluoranthene	0.218		0.0666	0.00895	mg/Kg	¤	12/17/14 12:47	12/17/14 23:42	10
Fluorene	ND		0.0666	0.0119	mg/Kg	Ħ	12/17/14 12:47	12/17/14 23:42	1
Indeno[1,2,3-cd]pyrene	ND		0.0666	0.00994	mg/Kg	n	12/17/14 12:47	12/17/14 23:42	1.
Naphthalene	ND		0.0666	0.00895	mg/Kg	n	12/17/14 12:47	12/17/14 23:42	1
2-Methylnaphthalene	ND		0.0666	0.0159	mg/Kg	¤	12/17/14 12:47	12/17/14 23:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	46		29 - 120				12/17/14 12:47	12/17/14 23:42	f
Terphenyl-d14 (Surr)	53		13 - 120				12/17/14 12:47	12/17/14 23:42	1
Nitrobenzene-d5 (Surr)	49		27 _ 120				12/17/14 12:47	12/17/14 23:42	Ť
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client: Small Business Group Inc.

Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-68644-1

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

Lab Sample ID: 490-68461-A-1-D MS

Matrix: Solid

Analysis Batch: 214403

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 213635

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	ND		0.0467	0.04059		mg/Kg		87	31 - 143
Ethylbenzene	ND		0.0467	0.04495		mg/Kg		96	23 - 161
Naphthalene	ND		0.0467	0.03484		mg/Kg		75	10 - 176
Toluene	ND		0.0467	0.04287		mg/Kg		92	30 - 155
Xylenes, Total	ND		0.0935	0.08070		mg/Kg		86	25 - 162

Limits

70 - 130

70 _ 130

70 - 130

70 _ 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 213635

Lab Sample ID: 490-68461-A-1-E MSD

Matrix: Solid

Toluene-d8 (Surr)

Surrogate

Analysis Batch: 214403

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr)

Allary 313 Datell. E 14400									1 1 CP I	Daten. Z	10000
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		0.0447	0.03731		mg/Kg		83	31 - 143	8	50
Ethylbenzene	ND		0.0447	0.04261		mg/Kg		95	23 - 161	5	50
Naphthalene	ND		0.0447	0.03368		mg/Kg		75	10 - 176	3	50
Toluene	ND		0.0447	0.03960		mg/Kg		89	30 - 155	8	50
Xylenes, Total	ND		0.0894	0.07794		mg/Kg		87	25 - 162	3	50

MSD MSD

MS MS %Recovery Qualifier

104

125

95

104

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
4-Bromofluorobenzene (Surr)	121		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Matrix: Solid Analysis Batch: 214403

Lab Sample ID: MB 490-214403/11

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.100	0.0335	mg/Kg			12/16/14 18:21	1
Ethylbenzene	ND		0.100	0.0335	mg/Kg			12/16/14 18:21	1
Naphthalene	ND		0.250	0.0850	mg/Kg			12/16/14 18:21	1
Toluene	ND		0.100	0.0370	mg/Kg			12/16/14 18:21	1
Xylenes, Total	ND		0.150	0.0335	mg/Kg			12/16/14 18:21	1

Currogate	%Recovery	Qualifier	Limits	P	repared	Analyzed	
1,2-Dichloroethane-d4 (Surr)	106		70 - 130			12/16/14 18:21	
4-Bromofluorobenzene (Surr)	119		70 _ 130			12/16/14 18:21	
Dibromofluoromethane (Surr)	101		70 - 130			12/16/14 18:21	
Toluene-d8 (Surr)	105		70 - 130			12/16/14 18:21	

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-68644-1

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

MB MB

ND

ND

ND

ND

ND

Result Qualifier

Lab Sample ID: MB 490-214403/12

Matrix: Solid

Analyte

Benzene

Toluene

Ethylbenzene

Naphthalene

Xylenes, Total

Analysis Batch: 214403

Client	Sample	ID:	Method	Blank	
	D.,		T.	4-1/81A	

Prep Type: Total/NA

Dil Faç Prepared Analyzed 12/16/14 18:52 12/16/14 18:52

12/16/14 18:52 12/16/14 18:52 12/16/14 18:52

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil
1,2-Dichloroethane-d4 (Surr)	110		70 - 130	12	/16/14 18:52	
-Bromofluorobenzene (Surr)	117		70 - 130	12	/16/14 18:52	
ibromofluoromethane (Surr)	104		70 - 130	12	/16/14 18:52	
Toluene-d8 (Surr)	105		70 - 130	12	/16/14 18:52	

RL

0.00200

0.00200

0.00500

0.00200

0.00300

MDL Unit

0.000670 mg/Kg

0.000670 mg/Kg

0.00170 mg/Kg

0.000740 mg/Kg

0.000670 mg/Kg

Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 214403

Lab Sample ID: LCS 490-214403/9

Prep Type: Total/NA

	Spike	LCS	LUS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0500	0.05216		mg/Kg		104	75 - 127	
Ethylbenzene	0.0500	0.05251		mg/Kg		105	80 - 134	
Naphthalene	0.0500	0.05043		mg/Kg		101	69 - 150	
Toluene	0.0500	0.05087		mg/Kg		102	80 - 132	
Xylenes, Total	0.100	0.09705		mg/Kg		97	80 - 137	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1, 2-Dichloroethane-d4 (Surr)	118		70 - 130
4-Bromofluorobenzene (Surr)	121		70 - 130
Dibromofluoromethane (Surr)	101		70 _ 130
Toluene-d8 (Surr)	104		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 214403

Lab Sample ID: LCSD 490-214403/10

Alialysis Datcii. 2 14405										
	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.0500	0.05418		mg/Kg		108	75 - 127	4	50	
Ethylbenzene	0.0500	0.05609		mg/Kg		112	80 - 134	7	50	
Naphthalene	0.0500	0.04983		mg/Kg		100	69 - 150	1.0	50	
Toluene	0.0500	0.05342		mg/Kg		107	80 - 132	5	50	
Xylenes, Total	0.100	0.1025		mg/Kg		103	80 - 137	5	50	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	116		70 - 130
4-Bromofluorobenzene (Surr)	119		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
Toluene-d8 (Surr)	103		70 - 130

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

TestAmerica Job ID: 490-68644-1

2

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

Lab Sample ID: MB 490-214767/1-A Client Sam

Matrix: Solid

Analysis Batch: 214758

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 214767

	MB	MB						
Analyte	Result	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	0.0670	0.0100	mg/Kg		12/17/14 12:47	12/17/14 16:51	1
Acenaphthylene	ND	0.0670	0.00900	mg/Kg		12/17/14 12:47	12/17/14 16:51	1
Anthracene	ND	0.0670	0.00900	mg/Kg		12/17/14 12:47	12/17/14 16:51	1
Benzo[a]anthracene	ND	0.0670	0.0150	mg/Kg		12/17/14 12:47	12/17/14 16:51	- 1
Benzo[a]pyrene	ND	0.0670	0.0120	mg/Kg		12/17/14 12:47	12/17/14 16:51	1
Benzo[b]fluoranthene	ND	0.0670	0.0120	mg/Kg		12/17/14 12:47	12/17/14 16:51	1
Benzo[g,h,i]perylene	ND	0.0670	0.00900	mg/Kg		12/17/14 12:47	12/17/14 16:51	1
Benzo[k]fluoranthene	ND	0.0670	0.0140	mg/Kg		12/17/14 12:47	12/17/14 16:51	1
1-Methylnaphthalene	ND	0.0670	0.0140	mg/Kg		12/17/14 12:47	12/17/14 16:51	1
Pyrene	ND	0.0670	0.0120	mg/Kg		12/17/14 12:47	12/17/14 16:51	1
Phenanthrene	ND	0.0670	0.00900	mg/Kg		12/17/14 12:47	12/17/14 16:51	1
Chrysene	ND	0.0670	0.00900	mg/Kg		12/17/14 12:47	12/17/14 16:51	1
Dibenz(a,h)anthracene	ND	0.0670	0.00700	mg/Kg		12/17/14 12:47	12/17/14 16:51	1
Fluoranthene	ND	0.0670	0.00900	mg/Kg		12/17/14 12:47	12/17/14 16:51	1
Fluorene	ND	0.0670	0.0120	mg/Kg		12/17/14 12:47	12/17/14 16:51	1
Indeno[1,2,3-cd]pyrene	ND	0.0670	0.0100	mg/Kg		12/17/14 12:47	12/17/14 16:51	1
Naphthalene	ND	0.0670	0.00900	mg/Kg		12/17/14 12:47	12/17/14 16:51	1
2-Methylnaphthalene	ND	0.0670	0.0160	mg/Kg		12/17/14 12:47	12/17/14 16:51	1

MB MB Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 2-Fluorobiphenyl (Surr) 75 29 - 120 12/17/14 12:47 12/17/14 16:51 Terphenyl-d14 (Surr) 88 13 - 120 12/17/14 12:47 12/17/14 16:51 Nitrobenzene-d5 (Surr) 75 27 - 120 12/17/14 12:47 12/17/14 16:51

Lab Sample ID: LCS 490-214767/2-A

Matrix: Solid

Analysis Batch: 214758

Client	Sample	ID:	Lab	Co	ntro	I Sam	ple
			Prep	Ту	pe:	Total/	NA

Prep Batch: 214767

Analysis Batch: 214758	0-11-						Prep Batch: 214767
	Spike	LCS					%Rec.
Analyte	Added	Result	Qualifier	Unit	D %I	Rec	Limits
Acenaphthylene	1.67	1.435		mg/Kg		86	38 - 120
Anthracene	1.67	1.493		mg/Kg		90	46 - 124
Benzo[a]anthracene	1.67	1.452		mg/Kg		87	45 - 120
Benzo[a]pyrene	1.67	1.438		mg/Kg		86	45 - 120
Benzo[b]fluoranthene	1.67	1.449		mg/Kg		87	42 - 120
Benzo[g,h,i]perylene	1.67	1.443		mg/Kg		87	38 - 120
Benzo[k]fluoranthene	1.67	1.481		mg/Kg		89	42 - 120
1-Methylnaphthalene	1.67	1.383		mg/Kg		83	32 - 120
Pyrene	1.67	1.424		mg/Kg		85	43 - 120
Phenanthrene	1.67	1.467		mg/Kg		88	45 - 120
Chrysene	1.67	1.472		mg/Kg		88	43 - 120
Dibenz(a,h)anthracene	1.67	1.456		mg/Kg		87	32 - 128
Fluoranthene	1.67	1.481		mg/Kg		89	46 - 120
Fluorene	1.67	1.517		mg/Kg		91	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.409		mg/Kg		85	41 - 121
Naphthalene	1.67	1.418		mg/Kg		85	32 - 120
2-Methylnaphthalene	1.67	1.426		mg/Kg		86	28 - 120

TestAmerica Nashville

Page 11 of 21

12/22/2014

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-68644-1

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

Lab Sample ID: LCS 490-214767/2-A

Matrix: Solid

Analysis Batch: 214758

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 214767

	LUS	LUS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	80		29 - 120
Terphenyl-d14 (Surr)	85		13 - 120
Nitrobenzene-d5 (Surr)	81		27 - 120

Client Sample ID: Matrix Spike

Prep Batch: 214767

Prep Type: Total/NA

Lab Sample ID: 490-68765-C-1-B MS Matrix: Solid

Analysis Batch: 214758

	Sample Sample	Spike	MS	MS				%Rec.	
Analyte	Result Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Acenaphthylene	ND	2.23	1.558		mg/Kg	¤	70	25 - 120	
Anthracene	ND	2.23	1.550		mg/Kg	Ħ	70	28 - 125	
Benzo[a]anthracene	ND	2.23	1.619		mg/Kg	¤	73	23 - 120	
Benzo[a]pyrene	ND	2.23	1.504		mg/Kg	¤	68	15 - 128	
Benzo[b]fluoranthene	ND	2.23	1.589		mg/Kg	Ħ	71	12 - 133	
Benzo[g,h,i]perylene	ND	2.23	1.503		mg/Kg	n	67	22 - 120	
Benzo[k]fluoranthene	ND	2.23	1.546		mg/Kg	¤	69	28 - 120	
1-Methylnaphthalene	ND	2.23	1.502		mg/Kg	¤	67	10 - 120	
Pyrene	ND	2.23	1.724		mg/Kg	Ħ	77	20 - 123	
Phenanthrene	ND	2.23	1.538		mg/Kg	Ħ	69	21 - 122	
Chrysene	ND	2.23	1.606		mg/Kg	¤	72	20 - 120	
Dibenz(a,h)anthracene	ND	2.23	1.536		mg/Kg	n	69	12 - 128	
Fluoranthene	ND	2.23	1.581		mg/Kg	¤	71	10 - 143	
Fluorene	ND	2.23	1.630		mg/Kg	¤	73	20 - 120	
Indeno[1,2,3-cd]pyrene	ND	2.23	1.471		mg/Kg	¤	66	22 - 121	
Naphthalene	ND	2.23	1.500		mg/Kg	¤	67	10 - 120	
2-Methylnaphthalene	ND	2.23	1.521		mg/Kg	¤	68	13 - 120	

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	66		29 - 120
Terphenyl-d14 (Surr)	70		13 - 120
Nitrobenzene-d5 (Surr)	66		27 - 120

Lab Sample ID: 490-68765-C-1-C MSD

Matrix: Solid

Analysis Batch: 214758

Client 3	Sample I	D: N	Matrix	Spike	Duplicate
			Prep	Type:	Total/NA

Prep Batch: 214767

	Sample Sample	Spike	MSD MSD				%Rec.		RPD
Analyte	Result Qualifier	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	ND	2.27	1.869	mg/Kg	Ħ	82	25 - 120	18	50
Anthracene	ND	2.27	1.847	mg/Kg	Ħ	81	28 - 125	17	49
Benzo[a]anthracene	ND	2.27	1.907	mg/Kg	Ħ	84	23 - 120	16	50
Benzo[a]pyrene	ND	2.27	1.823	mg/Kg	Ħ	80	15 - 128	19	50
Benzo[b]fluoranthene	ND	2.27	1.895	mg/Kg	Ħ	83	12 - 133	18	50
Benzo[g,h,i]perylene	ND	2.27	1.844	mg/Kg	Ħ	81	22 - 120	20	50
Benzo[k]fluoranthene	ND	2.27	1.858	mg/Kg	Ħ	82	28 - 120	18	45
1-Methylnaphthalene	ND	2.27	1.842	mg/Kg	Ħ	81	10 - 120	20	50
Pyrene	ND	2.27	1.863	mg/Kg	п	82	20 - 123	8	50
Phenanthrene	ND	2.27	1.843	mg/Kg	Ħ	81	21 - 122	18	50
Chrysene	ND	2.27	1.895	mg/Kg	Ħ	83	20 - 120	17	49

TestAmerica Nashville

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12/22/2014

Spike

Added

2.27

2.27

2.27

2.27

2.27

2.27

MSD MSD

1.846

1.889

1.920

1.788

1.850

1.855

Result Qualifier

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-68644-1

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

Sample Sample

ND

ND

ND

ND

ND

ND

Result Qualifier

Lab Sample ID: 490-68765-C-1-C MSD

Matrix: Solid

Analyte

Fluorene

Fluoranthene

Naphthalene

Analysis Batch: 214758

Dibenz(a,h)anthracene

Indeno[1,2,3-cd]pyrene

2-Methylnaphthalene

Client Sample	ID:	Matrix	Spike	Duplicate
---------------	-----	--------	-------	-----------

%Rec

81

D

O

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Prep Type: Total/NA

Prep Batch: 214767

%Rec.	RPD					
Limits	RPD	Limit				
12 - 128	18	50				
10 _ 143	18	50				

83 84 20 - 120 16 79 22 - 121 19 50 81 10 _ 120 21 50

Client Sample ID: Duplicate

Prep Type: Total/NA

13 _ 120

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	75		29 _ 120
Terphenyl-d14 (Surr)	78		13 - 120
Nitrobenzene-d5 (Surr)	76		27 _ 120

Method: Moisture - Percent Moisture

Lab Sample ID: 490-68524-C-1 DU

Matrix: Solid

Analysis Batch: 214074

Analysis Buton. 214074	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Percent Solids	69		65		%		6	20

QC Association Summary

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

TestAmerica Job ID: 490-68644-1

GC/MS VOA

Prep	Bato	:h: 2	13635
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-68461-A-1-D MS	Matrix Spike	Total/NA	Solid	5030B	
490-68461-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5030B	

Prep Batch: 214013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-68644-1	487 Laurel Bay	Total/NA	Soil	5035	
490-68644-2	612 Dahlia	Total/NA	Soil	5035	
400 68644 3	636 Dablia	Total/NA	Soil	5035	

Analysis Batch: 214403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-68461-A-1-D MS	Matrix Spike	Total/NA	Solid	8260B	213635
490-68461-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	213635
490-68644-1	487 Laurel Bay	Total/NA	Soil	8260B	214013
490-68644-2	612 Dahlia	Total/NA	Soil	8260B	214013
490-68644-3	636 Dahlia	Total/NA	Soil	8260B	214013
LCS 490-214403/9	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-214403/10	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-214403/11	Method Blank	Total/NA	Solid	8260B	
MB 490-214403/12	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Analysis Batch: 214758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-68644-1	487 Laurel Bay	Total/NA	Soil	8270D	214767
490-68644-2	612 Dahlia	Total/NA	Soil	8270D	214767
490-68644-3	636 Dahlia	Total/NA	Soil	8270D	214767
490-68765-C-1-B MS	Matrix Spike	Total/NA	Solid	8270D	214767
490-68765-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	214767
LCS 490-214767/2-A	Lab Control Sample	Total/NA	Solid	8270D	214767
MB 490-214767/1-A	Method Blank	Total/NA	Solid	8270D	214767

Prep Batch: 214767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-68644-1	487 Laurel Bay	Total/NA	Soil	3550C	
490-68644-2	612 Dahlia	Total/NA	Soil	3550C	
490-68644-3	636 Dahlia	Total/NA	Soil	3550C	
490-68765-C-1-B MS	Matrix Spike	Total/NA	Solid	3550C	
490-68765-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
LCS 490-214767/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-214767/1-A	Method Blank	Total/NA	Solid	3550C	

General Chemistry

Analysis Batch: 214074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-68524-C-1 DU	Duplicate	Total/NA	Solid	Moisture	
490-68524-C-1 MS	Matrix Spike	Total/NA	Solid	Moisture	
490-68524-C-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	Moisture	

QC Association Summary

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

TestAmerica Job ID: 490-68644-1

General Chemistry (Continued)

Analysis Batch: 214074 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-68644-1	487 Laurel Bay	Total/NA	Soil	Moisture	
490-68644-2	612 Dahlia	Total/NA	Soil	Moisture	
490-68644-3	636 Dahlia	Total/NA	Soil	Moisture	







Lab Chronicle

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

Client Sample ID: 487 Laurel Bay

Date Collected: 12/08/14 14:00

Date Received: 12/12/14 08:45

TestAmerica Job ID: 490-68644-1

Matrix: Soil

Percent Solids: 95.2

Lab Sample ID: 490-68644-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.038 g	5.0 mL	214013	12/13/14 19:04	JLP	TAL NSH
Total/NA	Analysis	8260B		,	4.038 g	5.0 mL	214403	12/16/14 21:28	SLM	TAL NSH
Total/NA	Prep	3550C			31.77 g	1.00 mL	214767	12/17/14 12:47	LDC	TAL NSH
Total/NA	Analysis	8270D			31.77 g	1.00 mL	214758	12/17/14 22:56	SNR	TAL NSH
Total/NA	Analysis	Moisture		1			214074	12/15/14 09:11	RRS	TAL NSH

Client Sample ID: 612 Dahlia

Date Collected: 12/09/14 13:15 Date Received: 12/12/14 08:45

Lab S	ampie	יטו: 4	490-6	8644-2	
			Mat	trix: Soil	

Percent Solids: 94.3

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.383 g	5.0 mL	214013	12/13/14 19:04	JLP	TAL NSH
Total/NA	Analysis	8260B		1	4.383 g	5.0 mL	214403	12/16/14 21:59	SLM	TAL NSH
Total/NA	Prep	3550C			33.76 g	1.00 mL	214767	12/17/14 12:47	LDC	TAL NSH
Total/NA	Analysis	8270D		1.5	33.76 g	1.00 mL	214758	12/17/14 23:19	SNR	TAL NSH
Total/NA	Analysis	Moisture		1			214074	12/15/14 09:11	RRS	TAL NSH

Client Sample ID: 636 Dahlia

Date Collected: 12/10/14 11:15

Date Received: 12/12/14 08:45

Matrix: Soil Percent Solids: 86.4

Analyst Lab	
JLP TAL NSH	+
SLM TAL NSH	4
LDC TAL NSF	4
SNR TALNSH	4
RRS TAL NSH	Н
L	DC TALNSH

Laboratory References:

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

Method Summary

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-68644-1

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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

7.3

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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10





Certification Summary

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-68644-1

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Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program		EPA Region	Certification ID	Expiration Date		
South Carolina	State Prog	gram	4	84009 (001)	02-28-15		
9 ,	are included in this report, bu		, , ,	ŕ			
Analysis Method	Prep Method	Matrix	Analyt	e			
9 ,			Analyt	ŕ			

Nashville, TN

Charleston

COOLER RECEIPT FORM



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

I certify that I entered this project Into LIMS and answered questions 17-20 (intlal)

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 NCM generated? YES. (NO).#

(ES)..NO...NA

Man

num

Loc: 490 **68644**

12/22/2014

Login Sample Receipt Checklist

Client: Small Business Group Inc.

Job Number: 490-68644-1

Login Number: 68644 List Number: 1 List Source: TestAmerica Nashville

Creator: McBride, Mike

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT A



NON-HAZARDOUS MANIFEST

NON HAZARDONS AAANIFEST		1. Generator's U	S EPA	ID No.	Ma	nifest Doc I	No.	2. Page 1	of			
	NON-HAZARDOUS MANIFEST	ARDOUS MANIFEST					1 1					
	3. Generator's Mailing Address:	Generator's Site Addres			e Address (If di	fferent than m	ailing):	A. Manife	st Number	1		
	MCAS BEAUFORT								MNA	01519	1120	
	AUREL BAY HOUSING									e Generator's		 .
	BEAUFORT, SC 29904	BEAUFORT, SC 29904							5. 5141	- ocherator s	10	
		79-0411										
	5. Transporter 1 Company Name Tay 3 333 - 1350			6.	US EPA ID	Number						
	Section 1997	No. 1							ransporter's		- Emily 8	
	7. Transporter 2 Company Name	<u> </u>		8.	US EPA ID	Number		D. Transp	orter's Phor	ie		
				-				E. State T	ransporter's	ID		
	The first of the second second second								orter's Phon			
	9. Designated Facility Name and Site	Address		10.	US EPA	D Number						
	HICKORY HILL LANDFILL			1	(5) (15) <u>(4)</u>			G. State F	acility ID		44-1	3
	2621 LOW COUNTRY DRIVE							H. State F	acility Phon	e 843-9	987-464	3
	RIDGELAND, SC 29936			-		45					b. A	100
	44 Paradatian at Marka State of the					12. Co	ntainers	13. Total	14. Unit	\overline{T}		
G	11. Description of Waste Materials		i.			No.	Туре	Quantity	Wt./Vol.	1. N	lisc. Commer	its
E N	a. HEATING OIL TANK FILLED V	VITH SAND				1.00		n AG			rig - Levis	
Ε	NAME TO SE	1036556	_				३ ०५	187	101		100	
R	b. WWI Proti	le# 102655S0								+		
A T	.					*		· .	2.5		Q ·	
О	WM Profile #	e de la companya de l										
R	C.											
	-						L.		1.			
	WM Profile #											
	d. •							•	1.推 1.15cm			
Į	WM Profile #	100					4.1					
	J. Additional Descriptions for Materi	als Listed Above				K. Dispos	al Location					
						Cell	i			Level		
						Grid	i			1	<u>J</u>	
Ī	15. Special Handling Instructions and	Additional Informa	ation	- 1	ţ	•	1. \ G	12 D:	an t			
	Strong	1 2)19	, '		Atross		")"	**				
-	1) 1194 Bobwhit	-t 3	14	<u>87 /</u>	-AURRI	BAY		<u> 5) (</u>	136 D	phlia		
ļ	Purchase Order #			EM	IERGENCY CON	ITACT " PHO	ONE NO.:	¥:				
-	16. GENERATOR'S CERTIFICATE:											
ŀ	I hereby certify that the above-describ accurately described, classified and pa									aw, have bee	n fully and	1
ľ	Printed Name		ргорс		ure "On behalf			левые геда		Month	Day	Year
		Carlos martin				The same		27 744 17		13	11	
T R	17. Transporter 1 Acknowledgement	of Receipt of Mate	rials									
A N	Printed Name	. !		Signat	ture pij	141				Month	Day	Year
S P	18. Transporter 2 Acknowledgement		rials		<u> </u>							
O R	18. Transporter 2 Acknowledgement of Receipt of Materials Printed Name Signature			ture 6	7/	- 1			Month	Day	Year	
E	Michael Blog	1. 11			Ï. L	1/2	1			17	((12/
R	T 1 C21 V	<u> </u>		<u> </u>	MUM	9 0	5.8**			1 to	1.7	<u> </u>
F	19. Certificate of Final Treatment/Displacement, on behalf of the above listed		that to	n the heat	t of my knowlo	dae the sh	ove-describ	ed waste w	as managa-	in compliant	o with all	
A C	applicable laws, regulations, permits a					uge, the dD	ove-uestrib	eu wasie W	as managed	in compliand	e with all	
:	20. Facility Owner or Operator: Certif					vered by th	is manifest.					
ţ	Printed Name			Signat	ture					Month	Day	Year
	a to his acceptance	was the state of t			- 400	wy sta		. £\$		()	. İ	A Same

Appendix C Regulatory Correspondence





Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

July 1, 2015

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

RE: No Further Action

Laurel Bay Underground Storage Tank Assessment Reports for:

See attached sheet

Dear Mr. Drawdy,

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

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

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

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

Sincerely,

Kent Krieg

Department of Defense Corrective Action Section

Bureau of Land and Waste Management

South Carolina Department of Health and Environmental Control

Cc: Russell Berry (via email)

Craig Ehde (via email) Bryan Beck (via email)



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

Attachment to: Krieg to Drawdy

Subject: NFA
Dated 7/1/2015

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

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360 Aspen 642 Dahlia Tank 2	360 Aspen	

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

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

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

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