SUMMARY REPORT
590 ALBATROSS DRIVE (FORMERLY 1427 ALBATROSS DRIVE)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC

Revision: 0 Prepared for:

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

and



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

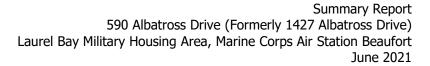
CTO WE52

JUNE 2021



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List of Acronyms

bgs below ground surface

BTEX benzene, toluene, ethylbenzene, and xylenes

CTO Contract Task Order

COPC constituents of potential concern

ft feet

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

PPV Public-Private Venture

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

UFP SAP Uniform Federal Policy Sampling and Analysis Plan
USEPA United States Environmental Protection Agency

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).

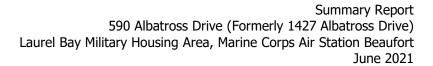
As of January 2014, the LBMH addresses were re-numbered to comply with the E-911 emergency response addressing system; however, in order to remain consistent with historical sampling and reporting for LBMH area, the residences will continue to be referenced with their original address numbers in sample 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 590 Albatross Drive (Formerly 1427 Albatross Drive). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

1.1 Background Information

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





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

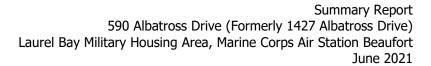
Capehart style homes within the LBMH area were formerly heated using heating oil stored in USTs at each residence. There were 1,100 Capehart style housing units in the LBMH area. The newer duplex homes within the LBMH area never utilized heating oil tanks. Heating oil has not been used at Laurel Bay 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.

In 2015, the Public-Private Venture (PPV) responsible for the management of the residential area at LBMH initiated a plan to replace outdated homes in the LBMH area. The plan includes the demolition of existing homes and subsequent construction of new homes. In discussions with the PPV it was revealed that construction of the new homes could occur on portions of the property where the USTs were formerly located. In response to this plan, MCAS Beaufort assessed subsurface soil gas concentrations in the area of the former USTs at select properties within the demolition areas. The subject property of this report is one of the properties within the planned demolition area which was selected for a soil gas evaluation. It should be noted that the house at the subject property has since been demolished and this property is an empty lot. There are no current plans for construction in this 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. A multi-media investigation selection process tree, applicable to the LBMH UST investigations, is presented as Appendix A.

In accordance with the multi-media investigation selection process (Appendix A), groundwater analytical results are typically compared to the site specific groundwater vapor intrusion screening levels (VISLs) to evaluate the potential for vapor intrusion into existing homes and the necessity for an investigation associated with this media. However, as previously stated, this property did not have an existing home and instead was among those selected for an evaluation of soil gas because of the planned demolition and construction activities.



2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 590 Albatross Drive (Formerly 1427 Albatross Drive). The sampling activities at 590 Albatross Drive (Formerly 1427 Albatross Drive) comprised a soil investigation, IGWA sampling, and a soil gas investigation. Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1427 Albatross Drive* (MCAS Beaufort, 2014). The UST Assessment Report is provided in Appendix B. Details regarding the IGWA sampling activities at this site are provided in the *Initial Groundwater Investigation Report – May and June 2015* (Resolution Consultants, 2015). The laboratory report that includes the pertinent IGWA analytical results for this site is presented in Appendix C. Details regarding the vapor intrusion investigation at this site are provided in the *Vapor Intrusion Report – July 2015, January 2016, and May 2016* (Resolution Consultants, 2017). Appendix D is reserved for the laboratory analytical results of the vapor intrusion investigation; however, due to presence of perched groundwater, a soil gas sample could not be collected from this location.

2.1 UST Removal and Soil Sampling

On August 28, 2013, a single 280 gallon heating oil UST was removed from underneath the front concrete porch at 590 Albatross Drive (Formerly 1427 Albatross Drive). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 3'9" 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 590 Albatross Drive (Formerly 1427 Albatross Drive) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In a letter dated April 7, 2015, SCDHEC requested an IGWA for 590 Albatross Drive (Formerly 1427 Albatross Drive) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letter is provided in Appendix E.

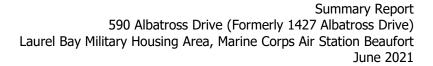
2.3 Groundwater Sampling

On June 17, 2015, a temporary monitoring well was installed at 590 Albatross Drive (Formerly 1427 Albatross Drive), in accordance with the South Carolina Well Standards and Regulations (R.61-71.H-I, updated June 24, 2016). In order to provide data that can be used to determine whether COPCs are migrating to underlying groundwater, the monitoring well was placed in the same general location as the former heating oil UST. The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). Further details are provided in the *Initial Groundwater Investigation Report – May and June 2015* (Resolution Consultants, 2015).

The sampling strategy for this phase of the investigation required a one-time sampling event of the temporarily installed monitoring well. Following well installation and development, groundwater samples were collected using low-flow methods and shipped to an offsite laboratory for analysis of the petroleum COPCs. Upon completion of groundwater sampling, the temporary well was abandoned in accordance with the South Carolina Well Standards and Regulations R.61-71 (SCDHEC, 2016). Field forms are provided in the *Initial Groundwater Investigation Report – May and June 2015* (Resolution Consultants, 2015).

2.4 Groundwater Analytical Results

A summary of the laboratory analytical results and SCDHEC RBSLs is presented in Table 2. A copy of the laboratory analytical data report is included in Appendix C.





The groundwater results collected from 590 Albatross Drive (Formerly 1427 Albatross Drive) were less than the SCDHEC RBSLs and the site specific groundwater VISLs (Table 2), which indicated that the groundwater was not impacted by COPCs associated with the former UST at concentrations that present a potential risk to human health and the environment.

2.5 Soil Gas Sampling

On May 4, 2016, a temporary subsurface soil gas well was installed at 590 Albatross Drive (Formerly 1427 Albatross Drive) in accordance with the SCDHEC approved *Uniform Federal Policy Sampling and Analysis Plan (UFP SAP) for Vapor Media, Revision 2* (Resolution Consultants, 2016). Soil gas sampling was attempted to be conducted at this property to assess the potential risk for vapor intrusion associated with the possible construction of a new home on top of former the UST location. The soil gas well was placed in the same general location as the former heating oil UST and the IGWA sample location. The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). Further details are provided in the *Vapor Intrusion Report – July 2015, January 2016, and May 2016* (Resolution Consultants, 2017).

The sampling strategy for this phase of the investigation required a one-time sampling event of the soil gas well. The subsurface soil gas well at 590 Albatross Drive (Formerly 1427 Albatross Drive) was unable to be sampled, due to presence of perched groundwater. The temporary well was abandoned in accordance with the *UFP SAP for Vapor Media, Revision 2* (Resolution Consultants, 2016). Field forms are provided in the *Vapor Intrusion Report – July 2015, January 2016, and May 2016* (Resolution Consultants, 2017).

2.6 Soil Gas Analytical Results

Due to the presence of perched groundwater, a soil gas sample was unable to be collected at 590 Albatross Drive (Formerly 1427 Albatross Drive). The next step in the assessment process would typically be to perform sub slab vapor monitoring and/or indoor air monitoring. However, as the house at 590 Albatross Drive (Formerly 1427 Albatross Drive) was demolished and the property is an empty lot, this step could not be completed. Instead, soil sampling and excavation activities were recommended to remove the petroleum impacted soils from the empty lot, eliminating the potential for vapor intrusion (Resolution Consultants, 2017). Followon soil excavation activities were conducted in October 2017.



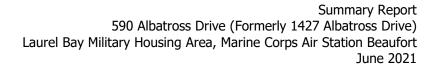
3.0 PROPERTY STATUS

The house at 590 Albatross Drive (Formerly 1427 Albatross Drive) was demolished and the property is an empty lot. There are no current plans for construction in this area. Based on the analytical results for groundwater, SCDHEC made the determination that NFA was required for 590 Albatross Drive (Formerly 1427 Albatross Drive). The NFA determination for groundwater was obtained in a letter dated February 22, 2016. Based on the proposed soil excavation activities, it was determined that there was not a vapor intrusion concern at this property and a recommendation was made for no additional vapor intrusion assessment activities. SCDHEC approved the no further vapor intrusion investigation recommendation for 590 Albatross Drive (Formerly 1427 Albatross Drive) in a letter dated June 20, 2017. SCDHEC's letters are provided in Appendix E.

4.0 REFERENCES

- Marine Corps Air Station Beaufort, 2014. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report 1427 Albatross Drive, Laurel Bay Military Housing Area, March 2014.
- Resolution Consultants, 2015. *Initial Groundwater Investigation Report May and June 2015*for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing

 Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina, October 2015.
- Resolution Consultants, 2016. *Uniform Federal Policy Sampling and Analysis Plan for Vapor Media, Revision 2, for Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, March 2016.
- Resolution Consultants, 2017. Vapor Intrusion Report July 2015, January 2016, and May 2016 for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina, May 2017.
- 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.
- South Carolina Department of Health and Environmental Control Bureau of Water, 2016. *R.61-71, Well Standards,* June 2016.
- United States Environmental Protection Agency, 2015. *USEPA OSWER Vapor Intrusion Assessment, Vapor Intrusion Screening Level Calculator, Version 3.4,* June 2015.

Tables



Table 1 Laboratory Analytical Results - Soil 590 Albatross Drive (Formerly 1427 Albatross Drive) Laurel Bay Military Housing Area Marine Corps Air Station Beaufort

Beaufort, South Carolina

Constituent	SCDHEC RBSLs (1)	Results Sample Collected 08/28/13
Volatile Organic Compounds Analyze	d by EPA Method 8260B (mg/kg)	
Benzene	0.007	0.00221
Ethylbenzene	1.15	0.343
Naphthalene	0.036	4.72
Toluene	1.45	ND
Xylenes, Total	14.5	ND
Semivolatile Organic Compounds Ana	alyzed by EPA Method 8270D (mg/kg)	
Benzo(a)anthracene	0.66	ND
Benzo(b)fluoranthene	0.66	ND
Benzo(k)fluoranthene	0.66	ND
Chrysene	0.66	ND
Dibenz(a,h)anthracene	0.66	ND

Notes:

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - milligrams per kilogram

ND - not detected at the reporting limit (or method detection limit if shown on the laboratory report). The soil 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 2.0 (SCDHEC, April 2013).

Table 2

Laboratory Analytical Results - Groundwater 590 Albatross Drive (Formerly 1427 Albatross Drive) Laurel Bay Military Housing Area Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	SCDHEC RBSLs (1)	Site-Specific Groundwater VISLs (µg/L) ⁽²⁾	Results Sample Collected 06/18/15
Volatile Organic Compounds Analyze	d by EPA Method 8260B (µ	ıg/L)	
Benzene	5	16.24	ND
Ethylbenzene	700	45.95	2.7
Naphthalene	25	29.33	20
Toluene	1000	105,445	ND
Xylenes, Total	10,000	2,133	3.8
Semivolatile Organic Compounds An	alyzed by EPA Method 827	0D (μg/L)	
Benzo(a)anthracene	10	NA	ND
Benzo(b)fluoranthene	10	NA	ND
Benzo(k)fluoranthene	10	NA	ND
Chrysene	10	NA	ND
Dibenz(a,h)anthracene	10	NA	ND

Notes:

Bold font indicates the analyte was detected.

Bold font and shading indicates the concentration exceeds the SCDHEC RBSL and/or the Site-Specific Groundwater VISL.

EPA - United States Environmental Protection Agency

JE - Johnson & Ettinger

NA - not applicable

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

μg/L - micrograms per liter

VISL - Vapor Intrusion Screening Level

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

⁽²⁾ Site-specific groundwater VISLs were calculated using the EPA JE Model Spreadsheets (Version 3.1, February 2004) and conservative modeling inputs representative of a small single-story house with an 8 foot ceiling. Site-specific groundwater VISLs were developed based on a target risk level of 1x10⁻⁶, a target hazard quotient of 1 (per target organ), and a default residential exposure scenario, assuming exposure for 24 hours/day, 350 days/year, for 26 years. Modeling was performed for a range of depths to groundwater for application as appropriate in different areas of the Laurel Bay Military Housing Area. The most conservative levels are presented for comparison. Refer to Appendix H of the Uniform Federal Policy Sampling Analysis and Sampling Plan for Vapor Media, Revision 4 (Resolution Consultants, April 2017) for additional information.

Table 3 Laboratory Analytical Results - Vapor

590 Albatross Drive (Formerly 1427 Albatross Drive) Laurel Bay Military Housing Area

Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	USEPA VISL (1)	No sample collected - perched groundwater in well		
Volatile Organic Compounds Analyzed by USEPA Method TO-15 (μg/m³)				
Benzene	12	-		
Toluene	ene 17000			
Ethylbenzene	37	-		
m,p-Xylenes	350	-		
m,p-Xylenes o-Xylene	a 350 -			
Naphthalene	2.8	-		

Notes:

VISLs are based on a residual exposure scenario and a target risk level of $1x10^{-6}$ and a hazard quotient of 0.1.

RBSL - Risk-Based Screening Level

µg/m³ - micrograms per cubic meter

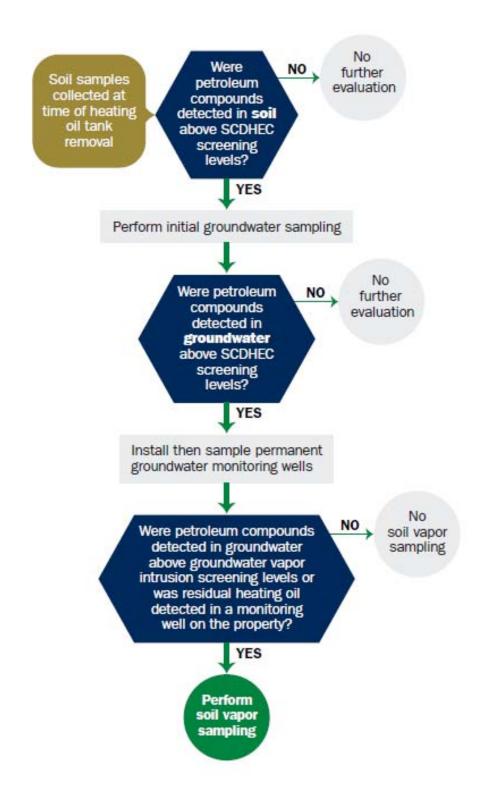
USEPA - United States Environmental Protection Agency

VISL - Vapor Intrusion Screening Level

⁽¹⁾ United States Environmental Protection Agency Exterior Soil Gas Vapor Intrusion Screening Level (VISL) from VISL Calculator (Version 3.4, June 2015).

Appendix A Multi-Media Selection Process for LBMH





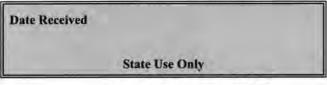
Appendix A - Multi-Media Selection Process for LBMH

Appendix B UST Assessment Report



South Carolina Department of Health and Environmental Control (SCDHEC)

Underground Storage Tank (UST) Assessment Report



RECEIVED

MAR 1 9 2014

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

Submit Completed Form To:

I. OWNERSHIP OF UST (S)

	ommanding Officer Attn: N. n, Individual, Public Agency, Other)	REAU (Craig Ende)
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 Milita:	ry Housing Area, Marine Corps Air Station, Beaufort, SC
Facility Name or Company	Site Identifier
1427 Albatross Dr	ive, Laurel Bay Military Housing Area
Street Address or State Roa	d (as applicable)
Beaufort,	Beaufort
City	County

Attachment 2

III. INSURANCE INFORMATION

Insu	rance Statement
qualify to receive state monies to pay for appropr	on at Permit ID Number may riate site rehabilitation activities. Before participation is rmation of the existence or non-existence of an environmental be completed.
Is there now, or has there ever been an ins UST release? YESNO(chec	surance policy or other financial mechanism that covers this ck one)
If you answered YES to the above	e question, please complete the following information:
My policy provider The policy deductil The policy limit is:	r is:ble is:
If you have this type of insurance, please	include a copy of the policy with this report.
V. CERTIFICATI	ION (To be signed by the UST owner)
I certify that I have personally examined and attached documents; and that based on my information, I believe that the submitted infor	am familiar with the information submitted in this and al inquiry of those individuals responsible for obtaining this mation 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	utside South Carolina

VI. UST INFORMATION	1427 Albatross
Product(ex. Gas, Kerosene)	Heating oil
Capacity(ex. 1k, 2k)	280 gal
Age	Late 1950s
Construction Material(ex. Steel, FRP)	Steel
Month/Year of Last Use	Mid 80s
Depth (ft.) To Base of Tank	3'9"
Spill Prevention Equipment Y/N	No
Overfill Prevention Equipment Y/N	No
Method of Closure Removed/Filled	Removed
Date Tanks Removed/Filled	8/28/2013
Visible Corrosion or Pitting Y/N	Yes
Visible Holes Y/N	Yes
Method of disposal for any USTs removed from UST 1427Albatross was removed	그렇게 하면 하는 것이 없는 것이 없는 생각이 되었다. 그렇지 않아 있는 것이 없었다. 그렇지 않아 없는 것이 없는 것이 없는 것이 없다.
at a Subtitle "D" landfill. Se	ee Attachment "A".
disposal manifests)	adges, or wastewaters removed from the USTs (at

VII. PIPING INFORMATION

	Albatross
	Steel
Construction Material(ex. Steel, FRP)	& Copper
Distance from UST to Dispenser	N/A
Number of Dispensers	N/A
Type of System Pressure or Suction	Suction
Was Piping Removed from the Ground? Y/N	No
Visible Corrosion or Pitting Y/N	Yes
Visible Holes Y/N	No
Age	Late 1950s
If any corrosion, pitting, or holes were observed.	describe the location and extent for each piper of the steel
pipe. Copper supply and return	
pipe. Copper supply and return	lines were sound. RIPTION AND HISTORY
pipe. Copper supply and return VIII. BRIEF SITE DESC	lines were sound. RIPTION AND HISTORY constructed of single wall ste
VIII. BRIEF SITE DESC	lines were sound. RIPTION AND HISTORY constructed of single wall ste for heating. These USTs were
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VIII. BRIEF SITE DESC. The USTs at the residences are and formerly contained fuel oil	lines were sound. RIPTION AND HISTORY constructed of single wall ste for heating. These USTs were

IX. SITE CONDITIONS

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

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#
1427 Albatros	Excav at fill end	Soil	Sandy	3'9"	8/28/13 1530 hrs	P. Shaw	
8							
9							
10				-			
11							
12							
13		1			-		
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.
·
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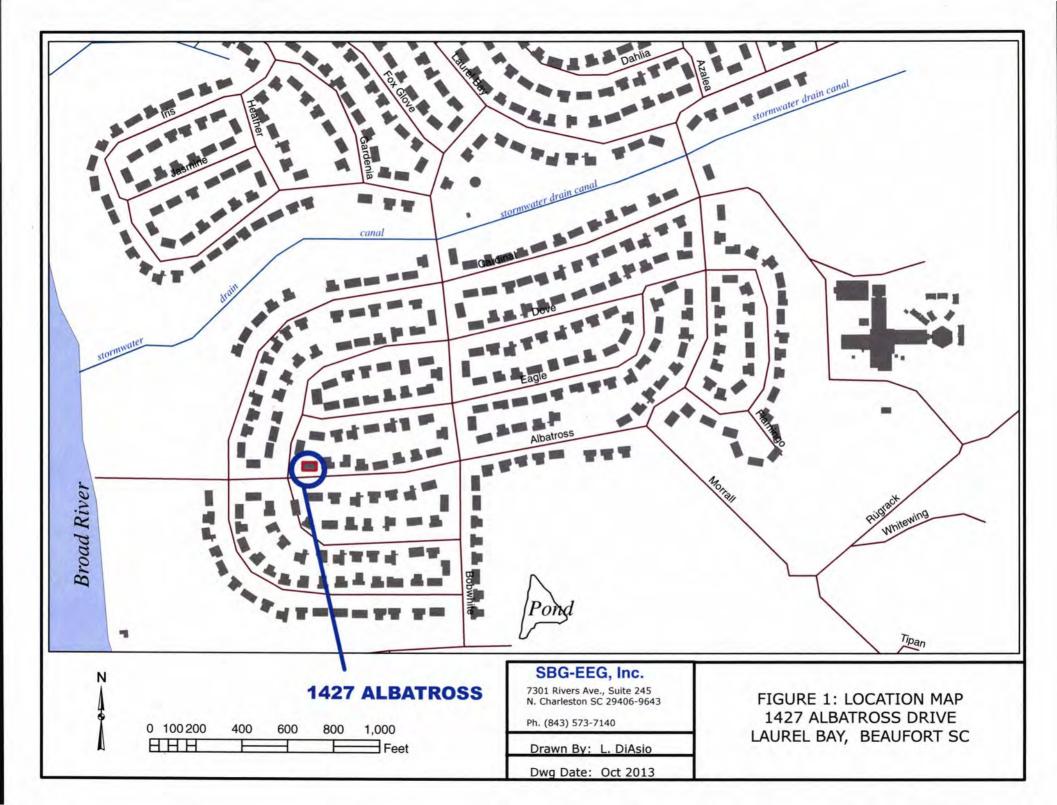
XII. RECEPTORS

		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? *Broad R:	*X	
	If yes, indicate type of receptor, distance, and direction on site map.	ver	
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, electricity	*X	
	cable, fiber optic & geother If yes, indicate the type of utility, distance, and direction on the site map.	rmal	
E.	Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete?		Х
	If yes, indicate the area of contaminated soil on the site map.		

XIII. SITE MAP

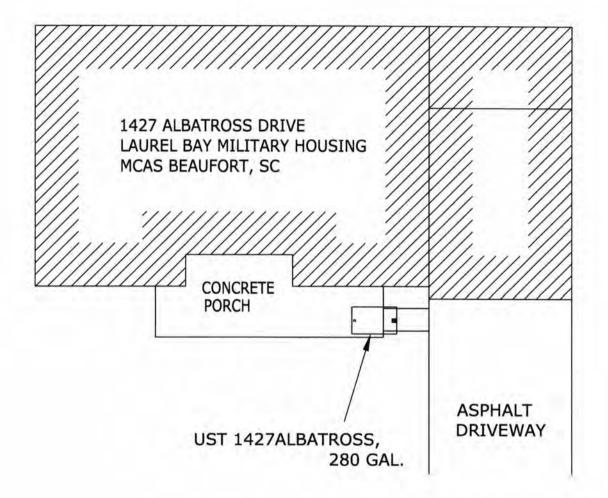
You must supply a <u>scaled</u> site map. It should include all buildings, road names, utilities, tank and dispenser island locations, labeled sample locations, extent of excavation, and any other pertinent information.

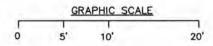
(Attach Site Map Here)











UST 1427ALBATROSS WAS 9" BELOW GRADE.

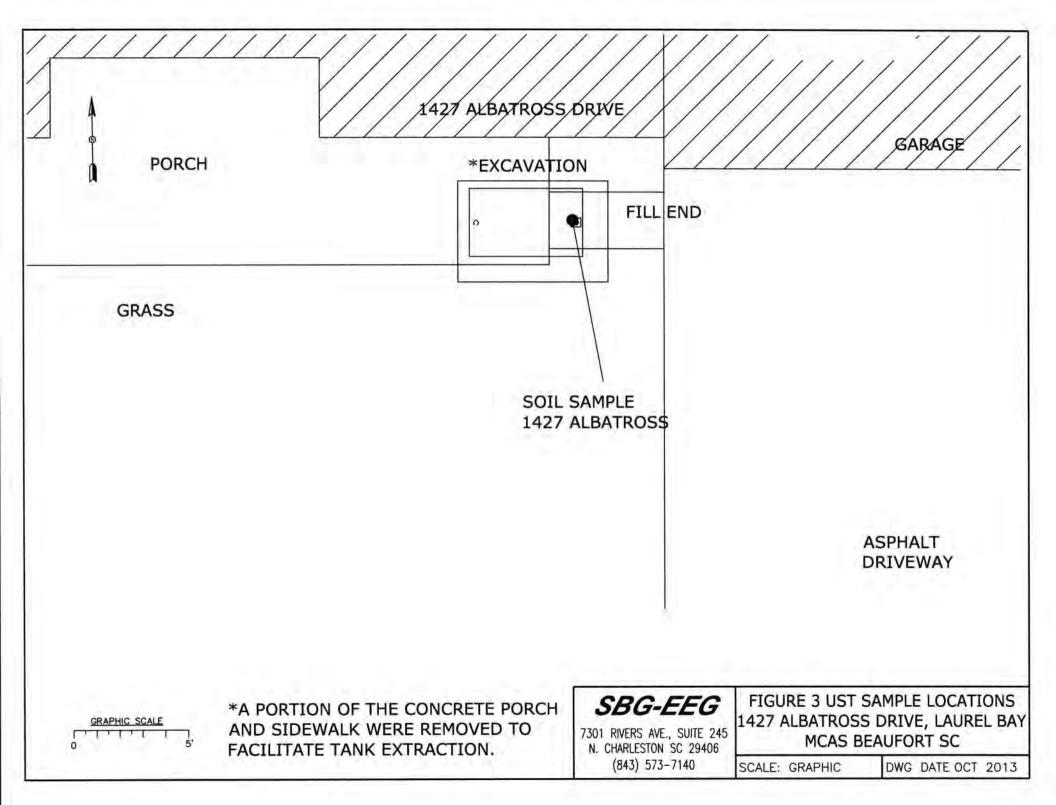
SBG-EEG

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

FIGURE 2 SITE MAP 1427 ALBATROSS DRIVE, LAUREL BAY MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE OCT 2013





Picture 1: Location of UST 1427Albatross.



Picture 2: UST 1427Albatross 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	1427Albatros	5				
Benzene	0.00221 mg/k	9				
Toluene	ND					
Ethylbenzene	0.343 mg/kg					
Xylenes	ND					
Naphthalene	4.72 mg/kg					
Benzo (a) anthracene	ND					
Benzo (b) fluoranthene	ND		•			
Benzo (k) fluoranthene	ND					
Chrysene	ND					
Dibenz (a, h) anthracene	ND					
TPH (EPA 3550)					1	
CoC						
Benzene						
Toluene						
Ethylbenzene						
Xylenes				12 (
Naphthalene						
Benzo (a) anthracene					-	
Benzo (b) fluoranthene						
Benzo (k) fluoranthene						
Chrysene						
Dibenz (a, h) anthracene						
TPH (EPA 3550)				1		

SUMMARY OF ANALYSIS RESULTS (cont'd)

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

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

XV. ANALYTICAL RESULTS

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

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

Visit us at:

www.testamericainc.com

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: 490-34496-1 Client Project/Site: Laurel Bay Site

For:

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

Attn: Tom McElwee

Kuth Hay

Authorized for release by: 9/17/2013 12:29:37 PM

Ken Hayes, Project Manager I ken.hayes@testamericainc.com

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

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

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

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Sample Summary

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

TestAmerica Job ID: 490-34496-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-34496-1	1380 Dove	Solid	08/27/13 15:45	09/04/13 09:05
490-34496-2	1427 Albatross	Solid	08/28/13 15:30	09/04/13 09:05
490-34496-3	1128 Iris	Solid	08/29/13 14:30	09/04/13 09:05

Case Narrative

Client: Small Business Group Inc. Project/Site: Laurel Bay Site TestAmerica Job ID: 490-34496-1

Job ID: 490-34496-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-34496-1

Comments

No additional comments.

Receipt

The samples were received on 9/4/2013 9:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.0° C.

Except:

The following sample(s) was received at the laboratory without a sample collection time documented on the chain-of-custody: 1128 Iris (490-34496-3). As a result, a sample collection time consistent with the time written on the sample bottle was used.

GC/MS VOA

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: 1380 Dove (490-34496-1), 1427 Albatross (490-34496-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: The method blank for batch 104803 contained toluene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260B: The method blank for batch 104801 contained Naphthalene and Xylenes above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260B: Internal standard responses were outside of acceptance limits for the following sample(s): 1427 Albatross (490-34496-2). The sample(s) shows evidence of matrix interference.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 105150. see lcs/lcsd

No other analytical or quality issues were noted.

GC/MS Semi VOA

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

Definitions/Glossary

Client: Small Business Group Inc. Project/Site: Laurel Bay Site TestAmerica Job ID: 490-34496-1

Н

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Glossary

QC

RER

RPD

TEF

TEQ

RL

Quality Control

Relative error ratio

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

2131222	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
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

TestAmerica Nashville

Client Sample Results

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

Client Sample ID: 1380 Dove

Date Collected: 08/27/13 15:45 Date Received: 09/04/13 09:05

TestAmerica Job ID: 490-34496-1

Lab Sample ID: 490-3

34	4	9	6	-1		
-in		c		11-1		

ds: 83.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00214	0.000715	mg/Kg	0	09/05/13 11:01	09/05/13 16:58	1
Ethylbenzene	0.0377		0.00214	0.000715	mg/Kg	0	09/05/13 11:01	09/05/13 16:58	.1
Naphthalene	0.0313		0.00534	0.00181	mg/Kg	0	09/05/13 11:01	09/05/13 16:58	1
Toluene	ND		0.00214	0.000790	mg/Kg	0	09/05/13 11:01	09/05/13 16:58	1
Xylenes, Total	0.102		0.00320	0.000715	mg/Kg	a	09/05/13 11:01	09/05/13 16:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		70 - 130				09/05/13 11:01	09/05/13 16:58	1
4-Bromofluorobenzene (Surr)	365	X	70 - 130				09/05/13 11:01	09/05/13 16:58	1
Dibromofluoromethane (Surr)	90		70 - 130				09/05/13 11:01	09/05/13 16:58	1
Toluene-d8 (Surr)	51	X	70 - 130				09/05/13 11:01	09/05/13 16:58	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0668	0.00996	mg/Kg	13	09/09/13 07:20	09/09/13 20:08	1
Acenaphthylene	0.0628	J	0.0668	0.00897	mg/Kg	п	09/09/13 07:20	09/09/13 20:08	1
Anthracene	0.0966		0.0668	0.00897	mg/Kg	12	09/09/13 07:20	09/09/13 20:08	1
Benzo[a]anthracene	ND		0.0668	0.0149	mg/Kg	12	09/09/13 07:20	09/09/13 20:08	1
Benzo[a]pyrene	ND		0.0668	0.0120	mg/Kg	33	09/09/13 07:20	09/09/13 20:08	1
Benzo[b]fluoranthene	ND		0.0668	0.0120	mg/Kg	п	09/09/13 07:20	09/09/13 20:08	1
Benzo[g,h,i]perylene	ND		0.0668	0.00897	mg/Kg	17	09/09/13 07:20	09/09/13 20:08	1
Benzo[k]fluoranthene	ND		0.0668	0.0140	mg/Kg	12	09/09/13 07:20	09/09/13 20:08	1
1-Methylnaphthalene	0.221		0.0668	0.0140	mg/Kg	37	09/09/13 07:20	09/09/13 20:08	1
Pyrene	0.113		0.0668	0.0120	mg/Kg	.22	09/09/13 07:20	09/09/13 20:08	1
Phenanthrene	0.594		0.0668	0.00897	mg/Kg	П	09/09/13 07:20	09/09/13 20:08	1
Chrysene	ND		0.0668	0.00897	mg/Kg	П	09/09/13 07:20	09/09/13 20:08	1
Dibenz(a,h)anthracene	ND		0.0668	0.00698	mg/Kg	1,2	09/09/13 07:20	09/09/13 20:08	1
Fluoranthene	0.0496	J	0.0668	0.00897	mg/Kg	D	09/09/13 07:20	09/09/13 20:08	1
Fluorene	ND		0.0668	0.0120	mg/Kg	n	09/09/13 07:20	09/09/13 20:08	1
Indeno[1,2,3-cd]pyrene	ND		0.0668	0.00996	mg/Kg	п	09/09/13 07:20	09/09/13 20:08	1
Naphthalene	ND		0.0668	0.00897	mg/Kg	0	09/09/13 07:20	09/09/13 20:08	1
2-Methylnaphthalene	0.164		0.0668	0.0159	mg/Kg	D	09/09/13 07:20	09/09/13 20:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	66		29 - 120				09/09/13 07:20	09/09/13 20:08	1
Terphenyl-d14 (Surr)	86		13 - 120				09/09/13 07:20	09/09/13 20:08	1
Nitrobenzene-d5 (Surr)	61		27 - 120				09/09/13 07:20	09/09/13 20:08	1
General Chemistry									
William Control of the Control of th					44.44	_	-		E 4 - 2 - 1

		17.				00/00/10 0/120	00/00/10 20:00	
61		27 - 120				09/09/13 07:20	09/09/13 20:08	1
Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
83		0.10	0.10	%			09/05/13 09:40	1
	61 Result	61 Result Qualifier	61 27 - 120 Result Qualifier RL	61 27 - 120 Result Qualifier RL RL	61 27 - 120 Result Qualifier RL RL Unit	61 27 - 120 Result Qualifier RL RL Unit D	61 27 - 120 09/09/13 07:20 Result Qualifier RL RL Unit D Prepared	61 27 - 120 09/09/13 07:20 09/09/13 20:08 Result Qualifier RL RL Unit D Prepared Analyzed

Client Sample Results

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

Date Collected: 08/28/13 15:30

Date Received: 09/04/13 09:05

Analyte

Percent Solids

Client Sample ID: 1427 Albatross

TestAmerica Job ID: 490-34496-1

Lab Sample ID: 490-34496-2

Matrix: Solid Percent Solids: 81.2



Method: 8260B - Volatile	Organic Compounds	(GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00221		0.00192	0.000643	mg/Kg	n	09/05/13 11:01	09/05/13 17:27	1
Ethylbenzene	0.343		0.138	0.0468	mg/Kg	D.	09/05/13 11:18	09/06/13 16:27	1
Naphthalene	4.72		0.344	0.117	mg/Kg	E	09/05/13 11:18	09/06/13 16:27	1
Toluene	ND		0.138	0.0510	mg/Kg	ET.	09/05/13 11:18	09/06/13 16:27	1

Toluene	ND		0.138	0.0510	mg/Kg	5,4	09/05/13 11:18	09/06/13 16:27	1
Xylenes, Total	ND		0.207	0.0468	mg/Kg	D	09/05/13 11:18	09/06/13 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		70 - 130				09/05/13 11:01	09/05/13 17:27	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 130				09/05/13 11:18	09/06/13 16:27	1
4-Bromofluorobenzene (Surr)	150	X	70 - 130				09/05/13 11:01	09/05/13 17:27	1
4-Bromofluorobenzene (Surr)	93		70 - 130				09/05/13 11:18	09/06/13 16:27	1
Dibromofluoromethane (Surr)	94		70 - 130				09/05/13 11:01	09/05/13 17:27	1
Dibromofluoromethane (Surr)	88		70 - 130				09/05/13 11:18	09/06/13 16:27	1
Toluene-d8 (Surr)	129		70 - 130				09/05/13 11:01	09/05/13 17:27	1
Toluene-d8 (Surr)	104		70 - 130				09/05/13 11:18	09/06/13 16:27	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0990		0.0670	0.0100	mg/Kg	2.5	09/09/13 07:20	09/09/13 21:18	1
Acenaphthylene	0.0670		0.0670	0.00900	mg/Kg	12	09/09/13 07:20	09/09/13 21:18	1
Anthracene	0.0903		0.0670	0.00900	mg/Kg	33	09/09/13 07:20	09/09/13 21:18	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg	122	09/09/13 07:20	09/09/13 21:18	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg	3.2	09/09/13 07:20	09/09/13 21:18	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg	5,5	09/09/13 07:20	09/09/13 21:18	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg	KE.	09/09/13 07:20	09/09/13 21:18	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg	23	09/09/13 07:20	09/09/13 21:18	1
1-Methylnaphthalene	0.615		0.0670	0.0140	mg/Kg	12	09/09/13 07:20	09/09/13 21:18	1
Pyrene	0.103		0.0670	0.0120	mg/Kg	13	09/09/13 07:20	09/09/13 21:18	1
Phenanthrene	0.441		0.0670	0.00900	mg/Kg	Ω	09/09/13 07:20	09/09/13 21:18	1
Chrysene	ND		0.0670	0.00900	mg/Kg	tī	09/09/13 07:20	09/09/13 21:18	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg	α	09/09/13 07:20	09/09/13 21:18	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg	n	09/09/13 07:20	09/09/13 21:18	1
Fluorene	0.254		0.0670	0.0120	mg/Kg	0.	09/09/13 07:20	09/09/13 21:18	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg	ū	09/09/13 07:20	09/09/13 21:18	1
Naphthalene	0.0510	J	0.0670	0.00900	mg/Kg	n	09/09/13 07:20	09/09/13 21:18	1
2-Methylnaphthalene	0.609		0.0670	0.0160	mg/Kg	9	09/09/13 07:20	09/09/13 21:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	58		29 - 120				09/09/13 07:20	09/09/13 21:18	1
Terphenyl-d14 (Surr)	79		13 - 120				09/09/13 07:20	09/09/13 21:18	1
Nitrobenzene-d5 (Surr)	55		27 - 120				09/09/13 07:20	09/09/13 21:18	1
General Chemistry									
The last of the la									

Analyzed

09/05/13 09:40

RL

0.10

RL Unit

0.10 %

Prepared

Result Qualifier

81

Dil Fac

Client Sample Results

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

TestAmerica Job ID: 490-34496-1

Client Sample ID: 1128 Iris

Date Collected: 08/29/13 14:30 Date Received: 09/04/13 09:05

Percent Solids

Lab Sample ID: 490-34496-3

Matrix: Solid

Percent Solids: 85.9

Method: 8260B - Volatile Organ Analyte	to the last the last to the last the la	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00226	0.000757	mg/Kg	12	09/05/13 11:01	09/06/13 14:01	1
Ethylbenzene	ND		0.00226	0.000757		£1	09/05/13 11:01	09/06/13 14:01	1
Naphthalene	ND		0.00565	0.00192	mg/Kg	225	09/05/13 11:01	09/06/13 14:01	1
Toluene	ND		0.00226	0.000836	mg/Kg	n	09/05/13 11:01	09/06/13 14:01	1
Xylenes, Total	ND		0.00339	0.000757	mg/Kg	E	09/05/13 11:01	09/06/13 14:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		70 - 130				09/05/13 11:01	09/06/13 14:01	1
4-Bromofluorobenzene (Surr)	113		70 - 130				09/05/13 11:01	09/06/13 14:01	1
Dibromofluoromethane (Surr)	93		70 - 130				09/05/13 11:01	09/06/13 14:01	1
Toluene-d8 (Surr)	103		70 - 130				09/05/13 11:01	09/06/13 14:01	1
Method: 8270D - Semivolatile (Organic Compou	nds (GC/MS	5)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0668	0.00997	mg/Kg	13	09/09/13 07:20	09/09/13 21:42	1
Acenaphthylene	ND		0.0668	0.00898	mg/Kg	D	09/09/13 07:20	09/09/13 21:42	1
Anthracene	ND		0.0668	0.00898	mg/Kg	IX.	09/09/13 07:20	09/09/13 21:42	1
Benzo[a]anthracene	ND		0.0668	0.0150	mg/Kg	Ø	09/09/13 07:20	09/09/13 21:42	1
Benzo[a]pyrene	ND		0.0668	0.0120	mg/Kg	a	09/09/13 07:20	09/09/13 21:42	1
Benzo[b]fluoranthene	ND		0.0668	0.0120	mg/Kg	22	09/09/13 07:20	09/09/13 21:42	1
Benzo[g,h,i]perylene	0.0970		0.0668	0.00898	mg/Kg	22	09/09/13 07:20	09/09/13 21:42	1
Benzo[k]fluoranthene	ND		0.0668	0.0140	mg/Kg	D	09/09/13 07:20	09/09/13 21:42	1
1-Methylnaphthalene	ND		0.0668	0.0140	mg/Kg	D	09/09/13 07:20	09/09/13 21:42	1
Pyrene	0.0376	J	0.0668	0.0120	mg/Kg	B	09/09/13 07:20	09/09/13 21:42	1
Phenanthrene	ND		0.0668	0.00898	mg/Kg	ži.	09/09/13 07:20	09/09/13 21:42	1
Chrysene	ND		0.0668	0.00898	mg/Kg	12	09/09/13 07:20	09/09/13 21:42	1
Dibenz(a,h)anthracene	ND		0.0668	0.00698	mg/Kg	32	09/09/13 07:20	09/09/13 21:42	1
Fluoranthene	0.0405	J	0.0668	0.00898	mg/Kg	Ø	09/09/13 07:20	09/09/13 21:42	1
Fluorene	ND		0.0668	0.0120	mg/Kg	п	09/09/13 07:20	09/09/13 21:42	1
Indeno[1,2,3-cd]pyrene	0.0536	J	0.0668	0.00997	mg/Kg	33	09/09/13 07:20	09/09/13 21:42	1
Naphthalene	ND		0.0668	0.00898	mg/Kg	23	09/09/13 07:20	09/09/13 21:42	1
2-Methylnaphthalene	ND		0.0668	0.0160	mg/Kg	33	09/09/13 07:20	09/09/13 21:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	61		29 - 120				09/09/13 07:20	09/09/13 21:42	1
Terphenyl-d14 (Surr)	68		13 - 120				09/09/13 07:20	09/09/13 21:42	1
Nitrobenzene-d5 (Surr)	56		27 - 120				09/09/13 07:20	09/09/13 21:42	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

09/05/13 09:40

0.10

86

0.10 %

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

TestAmerica Job ID: 490-34496-1

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

Lab Sample ID: MB 490-104801/6

Matrix: Solid

Analysis Batch: 104801

Client Sample ID: Method Blank

Prep Type: Total/NA

C	
1	
1	1
4	

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.00200	0.000670	mg/Kg			09/05/13 11:57	1	
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			09/05/13 11:57	1	
Naphthalene	0.001933	J	0.00500	0.00170	mg/Kg			09/05/13 11:57	1	
Toluene	ND		0.00200	0.000740	mg/Kg			09/05/13 11:57	1	
Xylenes, Total	0.0006947	J	0.00300	0.000670	mg/Kg			09/05/13 11:57	1	

Limits

70 - 130

70 - 130

70 - 130

70 - 130

Analyzed 09/05/13 11:57 09/05/13 11:57 09/05/13 11:57

09/05/13 11:57

Lab Sample ID: LCS 490-104801/29

Matrix: Solid

Toluene-d8 (Surr)

Surrogate

Analysis Batch: 104801

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr)

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

Prepared

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.0500	0.05140		mg/Kg		103	75 - 127
Ethylbenzene	0.0500	0.05300		mg/Kg		106	80 - 134
Naphthalene	0.0500	0.05679		mg/Kg		114	69 - 150
Toluene	0.0500	0.05132		mg/Kg		103	80 - 132
Xylenes, Total	0.100	0.1051		mg/Kg		105	80 - 137

LCS LCS

MB MB %Recovery Qualifier

93

101

91

104

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94	Quanner	70 - 130
The second secon			
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Lab Sample ID: LCSD 490-104801/30

Matrix: Solid

Analysis Batch: 104801

Client Sample	ID.	Lab	Control	Sample	Dun	
onent oumpie	10.	Lub	Common	Campic	Dup	

Prep Type: Total/NA

Carlot and State of the State o	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.04917		mg/Kg		98	75 - 127	4	50
Ethylbenzene	0.0500	0.05009		mg/Kg		100	80 - 134	6	50
Naphthalene	0.0500	0.05890		mg/Kg		118	69 - 150	4	50
Toluene	0.0500	0.04883		mg/Kg		98	80 - 132	5	50
Xylenes, Total	0.100	0.09898		mg/Kg		99	80 - 137	6	50

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	104		70 - 130

TestAmerica Nashville

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

TestAmerica Job ID: 490-34496-1

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

Lab Sample ID: MB 490-104803/7

Matrix: Solid

Analysis Batch: 104803

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			09/05/13 12:33	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			09/05/13 12:33	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			09/05/13 12:33	1
Toluene	0,0009890	J	0.00200	0.000740	mg/Kg			09/05/13 12:33	1
Xylenes, Total	ND		0.00300	0.000670	mg/Kg			09/05/13 12:33	1

MB MB %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 1,2-Dichloroethane-d4 (Surr) 74 70 - 130 09/05/13 12:33 70 - 130 119 09/05/13 12:33 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) 85 70 - 130 09/05/13 12:33 105 70 - 130 09/05/13 12:33 Toluene-d8 (Surr)

Lab Sample ID: LCS 490-104803/4

Matrix: Solid

Analysis Batch: 104803

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

Spike	LCS	LCS				%Rec.
Added	Result	Qualifier	Unit	D	%Rec	Limits
0.0500	0.04244		mg/Kg		85	75 - 127
0.0500	0.04669		mg/Kg		93	80 - 134
0.0500	0.06116		mg/Kg		122	69 - 150
0.0500	0.04987		mg/Kg		100	80 - 132
0.150	0.1341		mg/Kg		89	80 - 137
	Added 0.0500 0.0500 0.0500 0.0500	Added Result 0.0500 0.04244 0.0500 0.04669 0.0500 0.06116 0.0500 0.04987	Added Result Qualifier 0.0500 0.04244 0.0500 0.04669 0.0500 0.06116 0.0500 0.04987	Added Result Qualifier Unit 0.0500 0.04244 mg/Kg 0.0500 0.04669 mg/Kg 0.0500 0.06116 mg/Kg 0.0500 0.04987 mg/Kg	Added Result Qualifier Unit D 0.0500 0.04244 mg/Kg 0.0500 0.04669 mg/Kg 0.0500 0.06116 mg/Kg 0.0500 0.04987 mg/Kg	Added Result Qualifier Unit D %Rec 0.0500 0.04244 mg/Kg 85 0.0500 0.04669 mg/Kg 93 0.0500 0.06116 mg/Kg 122 0.0500 0.04987 mg/Kg 100

Spike

Added

0.0500

0.0500

0.0500

0.0500

0.150

0.1359

LCS LCS Limits Surrogate %Recovery Qualifier 70 - 130 1,2-Dichloroethane-d4 (Surr) 79 4-Bromofluorobenzene (Surr) 70 - 130 109 Dibromofluoromethane (Surr) 86 70 - 130 70 - 130 Toluene-d8 (Surr) 104

Lab Sample ID: LCSD 490-104803/5

Matrix: Solid

Analyte

Benzene

Toluene

Ethylbenzene

Naphthalene

Xylenes, Total

Analysis Batch: 104803

Client Sample ID: La	b Control Sample Dup
	Prep Type: Total/NA

80 - 137

LCSD LCSD %Rec. RPD Result Qualifier Unit %Rec Limits RPD Limit 0.04398 88 75 - 127 50 mg/Kg 0.04739 80 - 134 50 mg/Kg 95 0.06072 121 69 - 150 50 mg/Kg 0.05058 mg/Kg 101 80 - 132 50

mg/Kg

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80		70 - 130
4-Bromofluorobenzene (Surr)	111		70 - 130
Dibromofluoromethane (Surr)	86		70 - 130
Toluene-d8 (Surr)	104		70 - 130

TestAmerica Nashville

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

TestAmerica Job ID: 490-34496-1

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

Lab Sample ID: 490-34477-E-1-A MS

Matrix: Solid

Analyte Benzene

Analysis Batch: 104801

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 104871

Sample	Sample	Spike	MS	MS				%Rec.	
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
ND		0.0551	0.05128		mg/Kg	n	93	31 - 143	
ND		0.0551	0.04314		ma/Ka	13	78	23 - 161	

Ethylbenzene Naphthalene ND 0.0551 0.01815 mg/Kg II 33 10 - 176 Toluene ND 0.0551 0.04518 mg/Kg H 82 30 - 155 Xylenes, Total ND 0.110 0.08351 mg/Kg di. 76 25 - 162

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Lab Sample ID: 490-34477-F-1-A MSD

Matrix: Solid

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analysis Batch: 104801 Prep Batch: 104871

Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
ND		0.0495	0.04337		mg/Kg	ZZ	88	31 - 143	17	50
ND		0.0495	0.03991		mg/Kg	12	81	23 - 161	8	50
ND		0.0495	0.02060		mg/Kg	22	42	10 - 176	13	50
ND		0.0495	0.04064		mg/Kg	135	82	30 - 155	11	50
ND		0.0989	0.07726		mg/Kg	D	78	25 - 162	8	50
	Result ND ND ND	ND ND ND	Result Qualifier Added ND 0.0495 ND 0.0495 ND 0.0495 ND 0.0495 ND 0.0495	Result Qualifier Added Result ND 0.0495 0.04337 ND 0.0495 0.03991 ND 0.0495 0.02060 ND 0.0495 0.04064	Result Qualifier Added Result Qualifier ND 0.0495 0.04337 ND 0.0495 0.03991 ND 0.0495 0.02060 ND 0.0495 0.04064	Result Qualifier Added Result Qualifier Unit ND 0.0495 0.04337 mg/Kg ND 0.0495 0.03991 mg/Kg ND 0.0495 0.02060 mg/Kg ND 0.0495 0.04064 mg/Kg	Result Qualifier Added Result Qualifier Unit D ND 0.0495 0.04337 mg/Kg II ND 0.0495 0.03991 mg/Kg II ND 0.0495 0.02060 mg/Kg II ND 0.0495 0.04064 mg/Kg II	Result Qualifier Added Result Qualifier Unit D %Rec ND 0.0495 0.04337 mg/Kg 3 88 ND 0.0495 0.03991 mg/Kg 3 81 ND 0.0495 0.02060 mg/Kg 3 42 ND 0.0495 0.04064 mg/Kg 8 82	Result Qualifier Added Result Qualifier Unit D %Rec Limits ND 0.0495 0.04337 mg/Kg II 88 31 - 143 ND 0.0495 0.03991 mg/Kg II 81 23 - 161 ND 0.0495 0.02060 mg/Kg II 42 10 - 176 ND 0.0495 0.04064 mg/Kg II 82 30 - 155	Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD ND 0.0495 0.04337 mg/Kg II 88 31 - 143 17 ND 0.0495 0.03991 mg/Kg II 81 23 - 161 8 ND 0.0495 0.02060 mg/Kg II 42 10 - 176 13 ND 0.0495 0.04064 mg/Kg II 82 30 - 155 11

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

Lab Sample ID: MB 490-105150/7

Matrix: Solid

Analysis Batch: 105150

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			09/06/13 13:02	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			09/06/13 13:02	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			09/06/13 13:02	1
Toluene	ND		0.00200	0.000740	mg/Kg			09/06/13 13:02	1
Xylenes, Total	ND		0.00300	0.000670	mg/Kg			09/06/13 13:02	1

	MB MB				
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81	70 - 130		09/06/13 13:02	1
4-Bromofluorobenzene (Surr)	113	70 - 130		09/06/13 13:02	1
Dibromofluoromethane (Surr)	87	70 - 130		09/06/13 13:02	1
Toluene-d8 (Surr)	104	70 - 130		09/06/13 13:02	1

TestAmerica Nashville

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

TestAmerica Job ID: 490-34496-1

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

Lab Sample ID: MB 490-105150/8

Matrix: Solid

Analysis Batch: 105150

Client Sample ID: Method Blank

Prep Type: Total/NA

ac	
1	
1	-
1	

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.100	0.0335	mg/Kg			09/06/13 13:31	1
Ethylbenzene	ND		0.100	0.0335	mg/Kg			09/06/13 13:31	1
Naphthalene	ND		0.250	0.0850	mg/Kg			09/06/13 13:31	1
Toluene	ND		0.100	0.0370	mg/Kg			09/06/13 13:31	1
Xylenes, Total	ND		0.150	0.0335	mg/Kg			09/06/13 13:31	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		70 - 130		09/06/13 13:31	1
4-Bromofluorobenzene (Surr)	113		70 - 130		09/06/13 13:31	1
Dibromofluoromethane (Surr)	89		70 - 130		09/06/13 13:31	1
Toluene-d8 (Surr)	103		70 - 130		09/06/13 13:31	1
Toldene-do (Sull)	100		70-700		03/00/13 10.31	

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Lab Sample ID: LCS 490-105150/4

Matrix: Solid

Analysis Batch: 105150

%Rec.
Limits
75 - 127
80 - 134
69 - 150
80 - 132
80 - 137

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 77 70 - 130 70 - 130 4-Bromofluorobenzene (Surr) 110 Dibromofluoromethane (Surr) 87 70 - 130 Toluene-d8 (Surr) 104 70 - 130

Lab Sample ID: LCSD 490-105150/5

Matrix: Solid

Analysis Batch: 105150

Client Sample I	D: Lab	Control	Sample Dup
		Prep Tv	pe: Total/NA

	RPD
RPD I	Limit
1	50
0	50
1	50
1	50
1	50
	1

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		70 - 130
4-Bromofluorobenzene (Surr)	112		70 - 130
Dibromofluoromethane (Surr)	89		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Client: Small Business Group Inc. Project/Site: Laurel Bay Site TestAmerica Job ID: 490-34496-1

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

Lab Sample ID: MB 490-105553/1-A

Matrix: Solid

Analysis Batch: 105537

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105553

1	
1	-
1	
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1	
1	
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1	

	мв	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		09/09/13 07:20	09/09/13 19:45	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		09/09/13 07:20	09/09/13 19:45	1
Anthracene	ND		0.0670	0.00900	mg/Kg		09/09/13 07:20	09/09/13 19:45	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		09/09/13 07:20	09/09/13 19:45	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		09/09/13 07:20	09/09/13 19:45	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		09/09/13 07:20	09/09/13 19:45	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		09/09/13 07:20	09/09/13 19:45	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		09/09/13 07:20	09/09/13 19:45	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		09/09/13 07:20	09/09/13 19:45	1
Pyrene	ND		0.0670	0.0120	mg/Kg		09/09/13 07:20	09/09/13 19:45	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		09/09/13 07:20	09/09/13 19:45	1
Chrysene	ND		0.0670	0.00900	mg/Kg		09/09/13 07:20	09/09/13 19:45	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		09/09/13 07:20	09/09/13 19:45	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		09/09/13 07:20	09/09/13 19:45	1
Fluorene	ND		0.0670	0.0120	mg/Kg		09/09/13 07:20	09/09/13 19:45	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		09/09/13 07:20	09/09/13 19:45	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		09/09/13 07:20	09/09/13 19:45	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	60		29 - 120	09/09/13 07:20	09/09/13 19:45	1
Terphenyl-d14 (Surr)	74		13 - 120	09/09/13 07:20	09/09/13 19:45	1
Nitrobenzene-d5 (Surr)	62		27 - 120	09/09/13 07:20	09/09/13 19:45	1

0.0670

0.0160 mg/Kg

Lab Sample ID: LCS 490-105553/2-A

Matrix: Solid

2-Methylnaphthalene

Analysis Batch: 105537

Client Sample ID	: Lab Control Sample
	Prep Type: Total/NA
	Prep Batch: 105553

09/09/13 07:20 09/09/13 19:45

, manyoto batom 10000.	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.67	1.114		mg/Kg		67	38 - 120
Anthracene	1.67	1.221		mg/Kg		73	46 - 124
Benzo[a]anthracene	1.67	1.218		mg/Kg		73	45 - 120
Benzo[a]pyrene	1.67	1.220		mg/Kg		73	45 - 120
Benzo[b]fluoranthene	1.67	1.200		mg/Kg		72	42 - 120
Benzo[g,h,i]perylene	1.67	1.195		mg/Kg		72	38 - 120
Benzo[k]fluoranthene	1.67	1.268		mg/Kg		76	42 - 120
1-Methylnaphthalene	1.67	1.097		mg/Kg		66	32 - 120
Pyrene	1.67	1.173		mg/Kg		70	43 - 120
Phenanthrene	1.67	1.187		mg/Kg		71	45 - 120
Chrysene	1.67	1.214		mg/Kg		73	43 - 120
Dibenz(a,h)anthracene	1.67	1.265		mg/Kg		76	32 - 128
Fluoranthene	1.67	1.264		mg/Kg		76	46 - 120
Fluorene	1.67	1.150		mg/Kg		69	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.196		mg/Kg		72	41 - 121
Naphthalene	1.67	1.044		mg/Kg		63	32 - 120
2-Methylnaphthalene	1.67	1.082		mg/Kg		65	28 - 120

TestAmerica Nashville

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

TestAmerica Job ID: 490-34496-1

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

Lab Sample ID: LCS 490-105553/2-A

Matrix: Solid

Analysis Batch: 105537

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105553

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	57		29 - 120
Terphenyl-d14 (Surr)	72		13 - 120
Nitrobenzene-d5 (Surr)	59		27 - 120

Client Sample ID: 1380 Dove

Prep Type: Total/NA

Prep Batch: 105553

Lab Sample ID: 490-34496-1 MS Matrix: Solid

Analysis Batch: 105537

And the second second	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Acenaphthylene	0.0628	J	1.64	1.172		mg/Kg	Ü	68	25 - 120	
Anthracene	0.0966		1.64	1.375		mg/Kg	13	78	28 - 125	
Benzo[a]anthracene	ND		1.64	1.313		mg/Kg	CI.	80	23 - 120	
Benzo[a]pyrene	ND		1.64	1.250		mg/Kg	525	76	15 - 128	
Benzo[b]fluoranthene	ND		1.64	1.203		mg/Kg	3,2	74	12 - 133	
Benzo[g,h,i]perylene	ND		1.64	1.323		mg/Kg	13	81	22 - 120	
Benzo[k]fluoranthene	ND		1.64	1.245		mg/Kg	33	76	28 - 120	
1-Methylnaphthalene	0.221		1.64	1.486		mg/Kg	D	77	10 - 120	
Pyrene	0.113		1.64	1.501		mg/Kg	332	85	20 - 123	
Phenanthrene	0.594		1.64	1.997		mg/Kg	225	86	21 - 122	
Chrysene	ND		1.64	1.300		mg/Kg	13	79	20 - 120	
Dibenz(a,h)anthracene	ND		1.64	1.344		mg/Kg	13	82	12 - 128	
Fluoranthene	0.0496	J	1.64	1.294		mg/Kg	13	76	10 - 143	
Fluorene	ND		1.64	1.432		mg/Kg	Ø	88	20 - 120	
Indeno[1,2,3-cd]pyrene	ND		1.64	1.261		mg/Kg	n	77	22 - 121	
Naphthalene	ND		1.64	0.9806		mg/Kg	Ø	60	10 - 120	
2-Methylnaphthalene	0.164		1.64	1.348		mg/Kg	D	72	13 - 120	

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	55		29 - 120
Terphenyl-d14 (Surr)	80		13 - 120
Nitrobenzene-d5 (Surr)	52		27 - 120

Lab Sample ID: 490-34496-1 MSD

Matrix: Solid

Analysis Batch: 105537

Client	Sample	ID: 1380 Dov	e
	Prep T	vpe: Total/N	A

Prep Batch: 105553

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	0.0628	J	1.66	1.175		mg/Kg	D	67	25 - 120	0	50
Anthracene	0.0966		1.66	1.379		mg/Kg	13	77	28 - 125	0	49
Benzo[a]anthracene	ND		1.66	1.253		mg/Kg	33	76	23 - 120	5	50
Benzo[a]pyrene	ND		1.66	1.212		mg/Kg	10	73	15 - 128	3	50
Benzo[b]fluoranthene	ND		1.66	1.268		mg/Kg	23	76	12 - 133	5	50
Benzo[g,h,i]perylene	ND		1.66	1.268		mg/Kg	121	76	22 - 120	4	50
Benzo[k]fluoranthene	ND		1.66	1.132		mg/Kg	12	68	28 - 120	10	45
1-Methylnaphthalene	0.221		1.66	1.463		mg/Kg	n	75	10 - 120	2	50
Pyrene	0.113		1.66	1.448		mg/Kg	\$2	81	20 - 123	4	50
Phenanthrene	0.594		1.66	2.073		mg/Kg	O	89	21 - 122	4	50
Chrysene	ND		1.66	1.211		mg/Kg	17	73	20 - 120	7	49

TestAmerica Nashville

Page 14 of 23

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

TestAmerica Job ID: 490-34496-1

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

Lab Sample ID: 490-34496-1 MSD

Matrix: Solid

Analysis Batch: 105537

Client	Sample	ID:	1380	Dove
			-	

Prep Type: Total/NA

Prep Batch: 105553

Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
ND		1.66	1.282		mg/Kg	327	77	12 - 128	5	50
0.0496	J	1.66	1.295		mg/Kg	ZI.	75	10 - 143	0	50
ND		1.66	1.454		mg/Kg	327	88	20 - 120	2	50
ND		1.66	1.218		mg/Kg	33	73	22 - 121	3	50
ND		1.66	1.046		mg/Kg	30	63	10 - 120	6	50
0.164		1.66	1.296		mg/Kg	12	68	13 - 120	4	50
	Result ND 0.0496 ND ND	0.0496 J ND ND ND	Result Qualifier Added ND 1.66 0.0496 J 1.66 ND 1.66 ND 1.66 ND 1.66	Result Qualifier Added Result ND 1.66 1.282 0.0496 J 1.66 1.295 ND 1.66 1.454 ND 1.66 1.218 ND 1.66 1.046	Result Qualifier Added Result Qualifier ND 1.66 1.282 0.0496 J 1.66 1.295 ND 1.66 1.454 ND 1.66 1.218 ND 1.66 1.046	Result Qualifier Added Result Qualifier Unit ND 1.66 1.282 mg/Kg 0.0496 J 1.66 1.295 mg/Kg ND 1.66 1.454 mg/Kg ND 1.66 1.218 mg/Kg ND 1.66 1.046 mg/Kg	Result Qualifier Added Result Qualifier Unit D ND 1.66 1.282 mg/Kg mg/Kg 0.0496 J 1.66 1.295 mg/Kg mg/Kg ND 1.66 1.454 mg/Kg mg/Kg ND 1.66 1.218 mg/Kg mg/Kg ND 1.66 1.046 mg/Kg mg/Kg	Result Qualifier Added Result Qualifier Unit D %Rec ND 1.66 1.282 mg/Kg 277 0.0496 J 1.66 1.295 mg/Kg 275 ND 1.66 1.454 mg/Kg 288 ND 1.66 1.218 mg/Kg 273 ND 1.66 1.046 mg/Kg 263	Result Qualifier Added Result Qualifier Unit D %Rec Limits ND 1.66 1.282 mg/Kg III 77 12 - 128 0.0496 J 1.66 1.295 mg/Kg III 75 10 - 143 ND 1.66 1.454 mg/Kg III 88 20 - 120 ND 1.66 1.218 mg/Kg III 73 22 - 121 ND 1.66 1.046 mg/Kg III 63 10 - 120	Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD ND 1.66 1.282 mg/Kg 27 77 12 - 128 5 0.0496 J 1.66 1.295 mg/Kg 27 10 - 143 0 ND 1.66 1.454 mg/Kg 28 20 - 120 2 ND 1.66 1.218 mg/Kg 27 73 22 - 121 3 ND 1.66 1.046 mg/Kg 27 63 10 - 120 6

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	52		29 - 120
Terphenyl-d14 (Surr)	74		13 - 120
Nitrobenzene-d5 (Surr)	46		27 - 120

Client Sample ID: Duplicate Prep Type: Total/NA

Method: Moisture - Percent Moisture

Lab Sample ID: 490-34488-A-1 DU

Matrix: Solid

Analysis Batch: 104823

	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Percent Solids	84		85		%		0.8	20

QC Association Summary

Client: Small Business Group Inc. Project/Site: Laurel Bay Site TestAmerica Job ID: 490-34496-1

GC/MS VOA

Anal	ysis	Batch:	104801
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-34477-E-1-A MS	Matrix Spike	Total/NA	Solid	8260B	104871
490-34477-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	104871
LCS 490-104801/29	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-104801/30	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-104801/6	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 104803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-34496-1	1380 Dove	Total/NA	Solid	8260B	104871
490-34496-2	1427 Albatross	Total/NA	Solid	8260B	104871
LCS 490-104803/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-104803/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-104803/7	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 104871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-34477-E-1-A MS	Matrix Spike	Total/NA	Solid	5035	
490-34477-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
490-34496-1	1380 Dove	Total/NA	Solid	5035	
490-34496-2	1427 Albatross	Total/NA	Solid	5035	
490-34496-3	1128 Iris	Total/NA	Solid	5035	

Prep Batch: 104873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-34496-2	1427 Albatross	Total/NA	Solid	5035	

Analysis Batch: 105150

Client Sample ID	Prep Type	Matrix	Method	Prep Batch
1427 Albatross	Total/NA	Solid	8260B	104873
1128 Iris	Total/NA	Solid	8260B	104871
Lab Control Sample	Total/NA	Solid	8260B	
Lab Control Sample Dup	Total/NA	Solid	8260B	
Method Blank	Total/NA	Solid	8260B	
Method Blank	Total/NA	Solid	8260B	
	1427 Albatross 1128 Iris Lab Control Sample Lab Control Sample Dup Method Blank	1427 Albatross Total/NA 1128 Iris Total/NA Lab Control Sample Total/NA Lab Control Sample Dup Total/NA Method Blank Total/NA	1427 Albatross Total/NA Solid 1128 Iris Total/NA Solid Lab Control Sample Total/NA Solid Lab Control Sample Dup Total/NA Solid Method Blank Total/NA Solid	1427 Albatross Total/NA Solid 8260B 1128 Iris Total/NA Solid 8260B Lab Control Sample Total/NA Solid 8260B Lab Control Sample Dup Total/NA Solid 8260B Method Blank Total/NA Solid 8260B

GC/MS Semi VOA

Lab Sample ID

490-34496-1

Client Sample ID

1380 Dove

Analysis Batch: 105537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-34496-1	1380 Dove	Total/NA	Solid	8270D	105553
490-34496-1 MS	1380 Dove	Total/NA	Solid	8270D	105553
490-34496-1 MSD	1380 Dove	Total/NA	Solid	8270D	105553
490-34496-2	1427 Albatross	Total/NA	Solid	8270D	105553
490-34496-3	1128 Iris	Total/NA	Solid	8270D	105553
LCS 490-105553/2-A	Lab Control Sample	Total/NA	Solid	8270D	105553
MB 490-105553/1-A	Method Blank	Total/NA	Solid	8270D	105553
Prep Batch: 105553					

Prep Type

Total/NA

Matrix

Solid

TestAmerica Nashville

9/17/2013

Prep Batch

Method

3550C

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QC Association Summary

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

TestAmerica Job ID: 490-34496-1

GC/MS Semi VOA (Continued)

Prep Batch: 105553 (Continued)

Client Sample ID	Prep Type	Matrix	Method	Prep Batch
1380 Dove	Total/NA	Solid	3550C	
1380 Dove	Total/NA	Solid	3550C	
1427 Albatross	Total/NA	Solid	3550C	
1128 Iris	Total/NA	Solid	3550C	
Lab Control Sample	Total/NA	Solid	3550C	
Method Blank	Total/NA	Solid	3550C	
	1380 Dove 1380 Dove 1427 Albatross 1128 Iris Lab Control Sample	1380 Dove Total/NA 1380 Dove Total/NA 1427 Albatross Total/NA 1128 Iris Total/NA Lab Control Sample Total/NA	1380 Dove Total/NA Solid 1380 Dove Total/NA Solid 1427 Albatross Total/NA Solid 1128 Iris Total/NA Solid Lab Control Sample Total/NA Solid	1380 Dove Total/NA Solid 3550C 1380 Dove Total/NA Solid 3550C 1427 Albatross Total/NA Solid 3550C 1128 Iris Total/NA Solid 3550C Lab Control Sample Total/NA Solid 3550C

General Chemistry

Analysis Batch: 104823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-34488-A-1 DU	Duplicate	Total/NA	Solid	Moisture	
490-34496-1	1380 Dove	Total/NA	Solid	Moisture	
490-34496-2	1427 Albatross	Total/NA	Solid	Moisture	
490-34496-3	1128 Iris	Total/NA	Solid	Moisture	















Lab Chronicle

Client: Small Business Group Inc. Project/Site: Laurel Bay Site TestAmerica Job ID: 490-34496-1

Client Sample ID: 1380 Dove

Client Sample ID: 1427 Albatross

Date Collected: 08/28/13 15:30

Date Received: 09/04/13 09:05

Date Collected: 08/27/13 15:45 Date Received: 09/04/13 09:05 Lab Sample ID: 490-34496-1

Matrix: Solid

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			104871	09/05/13 11:01	GLN	TAL NSH
Total/NA	Analysis	8260B		1	104803	09/05/13 16:58	KKK	TAL NSH
Total/NA	Prep	3550C			105553	09/09/13 07:20	LP	TAL NSH
Total/NA	Analysis	8270D		1	105537	09/09/13 20:08	KJP	TAL NSH
Total/NA	Analysis	Moisture		1	104823	09/05/13 09:40	RRS	TAL NSH

Lab Sample ID: 490-34496-2

Matrix: Solid

Percent Solids: 81.2

Batch Dilution Batch Batch Prepared **Prep Type** Type Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 104871 09/05/13 11:01 GLN TAL NSH Total/NA 8260B Analysis 104803 09/05/13 17:27 KKK TAL NSH 5035 Total/NA Prep 104873 09/05/13 11:18 GLN TAL NSH Total/NA Analysis 8260B 105150 09/06/13 16:27 KKK TAL NSH Total/NA Prep 3550C 105553 09/09/13 07:20 LP TAL NSH Total/NA Analysis 8270D 105537 09/09/13 21:18 **KJP** TAL NSH Total/NA Analysis TAL NSH Moisture 104823 09/05/13 09:40 RRS

Client Sample ID: 1128 Iris

Date Collected: 08/29/13 14:30

Date Received: 09/04/13 09:05

Lab Sample ID: 490-34496-3

Matrix: Solid

Percent Solids: 85.9

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			104871	09/05/13 11:01	GLN	TAL NSH
Total/NA	Analysis	8260B		1	105150	09/06/13 14:01	KKK	TAL NSH
Total/NA	Prep	3550C			105553	09/09/13 07:20	LP	TAL NSH
Total/NA	Analysis	8270D		1	105537	09/09/13 21:42	KJP	TAL NSH
Total/NA	Analysis	Moisture		1	104823	09/05/13 09:40	RRS	TAL NSH

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 Site TestAmerica Job ID: 490-34496-1

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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

NSH NSH 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: Small Business Group Inc. Project/Site: Laurel Bay Site TestAmerica Job ID: 490-34496-1

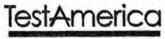
Laboratory: TestAmerica Nashville

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	ISO/IEC 17025		0453.07	12-31-13
Alaska (UST)	State Program	10	UST-087	07-24-14
Arizona	State Program	9	AZ0473	05-05-14
Arizona	State Program	9	AZ0473	05-05-14 *
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-13
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-14
llinois	NELAP	5	200010	12-09-13
owa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	06-30-14
ouisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	-1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-14
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-14
New Hampshire	NELAP	1	2963	10-10-13
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-14
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-14
Dregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-14
Tennessee	State Program	4	2008	02-23-14
exas	NELAP	6	T104704077-09-TX	08-31-14
JSDA	Federal		S-48469	11-02-13
Itah	NELAP	8	TN00032	07-31-14
/irginia	NELAP	3	460152	06-14-14
Vashington	State Program	10	C789	07-19-14
Vest Virginia DEP	State Program	3	219	02-28-14
Visconsin	State Program	5	998020430	08-31-14
Nyoming (UST)	A2LA	8	453.07	12-31-13

TestAmerica Nashville

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



THE LEADER IN ENVIRONMENTAL TESTING Nashville, TN

COOLER RECEIPT FORM



Cooler Received/Opened On9/4/2013 @ 0905	490-34496 Chain of Cu
1. Tracking # 9569 (last 4 digits, FedEx)	
Courier:Fedex IR Gun ID18290455	
2. Temperature of rep. sample or temp blank when opened: 170 Degrees Celsius	
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank from	zen? YES NO(NA)
4. Were custody seals on outside of cooler?	(YESNONA
If yes, how many and where:	
5. Were the seals intact, signed, and dated correctly?	ESNONA
6. Were custody papers inside cooler?	ESNONA
certify that I opened the cooler and answered questions 1-6 (intial)	
7. Were custody seals on containers: YES (N) and Intact	YESNO.(NA
Were these signed and dated correctly?	YESNONA
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert F	Paper Other None
9. Cooling process: (Ice lice-pack lice (direct contact) Dr	yice Other None
10. Did all containers arrive in good condition (unbroken)?	YESNONA
11. Were all container labels complete (#, date, signed, pres., etc)?	YESNONA
12. Did all container labels and tags agree with custody papers?	YESNONA
13a. Were VOA vials received?	NESNONA
b. Was there any observable headspace present in any VOA vial?	YESNONA
14. Was there a Trip Blank in this cooler? YESNDNA If multiple coolers, sec	uence #
I certify that I unloaded the cooler and answered questions 7-14 (intial)	TH
15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH le	vel? YESNO.NA
b. Did the bottle labels indicate that the correct preservatives were used	YESNO
16. Was residual chlorine present?	YESNO(NA)
certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (int	ial) AJH
17. Were custody papers properly filled out (ink, signed, etc)?	WES 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)NONA
20. Was sufficient amount of sample sent in each container?	NESNONA
certify that I entered this project into LIMS and answered questions 17-20 (intial)	ATH
certify that I attached a label with the unique LIMS number to each container (intial)	AtH
21. Were there Non-Conformance issues at login? VESNO Was a NCM generated?	6NO# 76363

34496

1	No	No						_		RUSH TAT (F Standard TAT Fax Results Fax Geoutle							z		
To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?	Compliance Monitoring? Yes	Enforcement Action? Yes	Site State: SC	PO# 1035	TA Quote #:	Project ID: Laurel Bay Housing Project	Project #:	Analyze For:	-	10728 - HA9		×					Laboratory Comments: Temperature Upon Receipt: 1,0		Time
,			Site				Pro	Matrix		Drinking Water 8ludge Other (specify): Other (specify):	XIX	XX	X		1		FEDEX		-
Phone: 615-726-0177 Toll Free: 800-765-0980 Fax: 615-726-3404					Fax No.: 843-879-0401		1"	Peservative	low Label)	Filed Filtered Hoog (Red Labe) Hydo, (Red Labe)	2 3	2 21	1 2 1 2 1	,46	***		Method of Shipment	on Hanber	Received by TestAmerica:
Creighton N 37204				e@eeginc.net		5/14W	1		beqqiri2 and	No, of Contain Grab Composite	SX	ラメ ラ	5 ×		1			Time Receive	Time Receiv
2960 Foster Creighton Nashville, TN 37204	BG # 2449	lighway 78	SC 29456	Elwee email: moelwe	, 2097	1/24 H	11/4	0		elqme2 elaQ elqms2 emiT	113 1545	8/13 1530	1,3 1430					Date	Date
	Client Name/Account #: EEG - SBG # 2449	Address: 10179 Highway 78	City/State/Zip: Ladson, SC 29456	Project Manager: Tom McEiwee email: moelwee@eeginc.net	Telephone Number: 843.412.2097	Sampler Name: (Print)	Sampler Signature:			ple ID / Description	1380 Dove. 8/27	1427 Albataus 8/28/	1128 16:5 8/29				ial instructions:	quished by:	quished by:

Login Sample Receipt Checklist

Client: Small Business Group Inc.

Job Number: 490-34496-1

Login Number: 34496 List Number: 1 List Source: TestAmerica Nashville

Creator: Huskey, Adam

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

True

True

True

N/A

MS/MSDs

<6mm (1/4").

Multiphasic samples are not present.

Residual Chlorine Checked.

Samples do not require splitting or compositing.

Containers requiring zero headspace have no headspace or bubble is

ATTACHMENT A



NON-HAZARDOUS MANIFEST

	1. Generator's US EPA	A ID No.	Manifest Doc	No.	2. Page 1 d	of			
NON-HAZARDOUS MANIFEST					1		771	643	7
3. Generator's Mailing Address:	Gen	erator's Site Addres	S ()f different than	mailing):	A. Manifes	st Number	1		-
MCAS, BEAUFORT	Gen	erator s site Addres	is (if different than i	naning).	1000	MNA	0021	6020	
LAUREL BAY HOUSING						V4.1 27/1	00316839 Generator's ID		
BEAUFORT, SC 29907						b. State C	enerators	, ID	
4. Generator's Phone 843-2	28-6461								
5. Transporter 1 Company Name		6. US E	PA ID Number						
Carlina Container	Carlle of the C		C. State Tr	ansporter's ID)				
EEG, INC. P. U. BOX 1920	D 40 70 7 111/				D. Transpo	orter's Phone	843-	879-043	11
7. Transporter 2 Company Name		8. US E	PA ID Number			13	1070	122-13	20
						ansporter's ID	-		
9. Designated Facility Name and Site	Address	10. US	EPA ID Number		F. Transpo	rter's Phone			
HICKORY HILL LANDFILL	**************************************				G. State Fa	cility ID			
2621 LOW COUNTRY ROAD						cility Phone	9/12 (987-464	12
RIDGELAND, SC 29936					n. State Fa	ichity Phone	045-	367-40-	+3
200,000,000,000									
11. Description of Waste Materials		•	12. C	ontainers Type	13. Total	14. Unit	I. N	Misc. Comme	ents
	. HEATING OIL TANKS FILLED WITH SAND				Quantity	Wt./Vol			
a. HEATING OIL TAINES FIELED	WITH SAND		1	2000	11 50	Tool	771	643	7
WM Pro	file # 102655SC		-	000	7100	1010	11	0.10	-
	10203330								
b.									
WM Profile #			-					-	
c. WM Profile #									
WM Profile #									
d.			_ 7 10 10 10						
WM Profile #									
J. Additional Descriptions for Mate	rials Listed Above		K. Dispo	sal Location					
			Cell				Level	1-0	
	A Little Committee		Grid	106	/-	1 247	701/	to do	-1
15. Special Handling Instructions and	Additional Information	Bobwhif	1 19 19	1040	2.4	1 78	1111/12	16. 500	000
1 1202 5	1 -1 -1	F11	F 5	120ml	1000	15 11/5	1AT	100	1
Purchase Order #	11/2 3) 102	EMERGENO	CONTACT / PH		1050	1111	1	E-1-	4
		EWIENGENC	CONTACT/PH	ONE NO.					
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-descri	had materials are not be	avardous wastos as	defined by CER I	20st 261 or 2	ny applicable	state law has	un haan fu	lly and	
accurately described, classified and p							ve been in	ily allu	
Printed Name		Signature "On b		me to			Month	Day	Year
	Carlos)	122347		fr.			10	3	13
17. Transporter 1 Acknowledgement	of Receipt of Materials		1///	1					,
Printed Name	5/4	Signature	1/1/				Month	Day	Year
1/14/	nac						7	- O.	15
18. Transporter 2 Acknowledgement	of Receipt of Materials	Conserve					1		T van
Printed Name		Signature					Month	Day	Year
19. Certificate of Final Treatment/Dis									
I certify, on behalf of the above listed			owledge, the at	oove-describ	ed waste wa	s managed in	complianc	e with al	
applicable laws, regulations, permits			Aller and a Marie	TT. 122.2.1.	+				
20. Facility Owner or Operator: Certi	rication of receipt of no		als covered by the	nis manifest.	-1		Maret	Descri	T v
Printed Name	n-/	Signature	Month Day						Year
White-TREATMENT STORAGE DISPO	TOR #2 COPY	Harris		IFRATOR #1 COPY					

Appendix C Laboratory Analytical Report - Groundwater



Volatile Organic Compounds by GC/MS

Client: AECOM - Resolution Consultants

Description: BEALB1427TW01WG20150618

Laboratory ID: QF17014-014

Matrix: Aqueous

Date Sampled:06/18/2015 0930 Date Received: 06/19/2015

 Run
 Prep Method
 Analytical Method
 Dilution
 Analysis Date
 Analyst
 Prep Date
 Batch

 1
 5030B
 8260B
 1
 06/25/2015 0337 PMM2
 78064

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL Units Run
Benzene	71-43-2	8260B	0.45	U	5.0	0.45	0.21 ug/L 1
Ethylbenzene	100-41-4	8260B	2.7	J	5.0	0.51	0.21 ug/L 1
Naphthalene	91-20-3	8260B	20		5.0	0.96	0.14 ug/L 1
Toluene	108-88-3	8260B	0.48	U	5.0	0.48	0.24 ug/L 1
Xylenes (total)	1330-20-7	8260B	3.8	J	5.0	0.57	0.19 ug/L 1

Surrogate	Run 1 Q % Recovery	Acceptance Limits	
Bromofluorobenzene	108	75-120	
1,2-Dichloroethane-d4	88	70-120	
Toluene-d8	93	85-120	
Dibromofluoromethane	87	85-115	

PQL = Practical quantitation limit
ND = Not detected at or above the MDL

 $B = Detected in the method blank \\ J = Estimated result < PQL and <math>\geq MDL$

 $\label{eq:power_power} E = \mbox{Quantitation of compound exceeded the calibration range} \\ P = \mbox{The RPD between two GC columns exceeds } 40\%$

H = Out of holding timeN = Recovery is out of criteria

Q = Surrogate failure L = LCS/LCSD failure S = MS/MSD failure

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Semivolatile Organic Compounds by GC/MS (SIM)

Client: AECOM - Resolution Consultants

Description: BEALB1427TW01WG20150618

Matrix: Aqueous

Laboratory ID: QF17014-014

Date Sampled: 06/18/2015 0930 Date Received: 06/19/2015

Run Prep Method **Analytical Method Dilution Analysis Date Analyst** Batch **Prep Date** 1 3520C 8270D (SIM) 06/23/2015 1314 RBH 06/22/2015 1610 77836

	CAS	Analytical				
Parameter	Number	Method	Result Q	LOQ	LOD	DL Units Run
Benzo(a)anthracene	56-55-3	8270D (SIM)	0.040 U	0.20	0.040	0.019 ug/L 1
Benzo(b)fluoranthene	205-99-2	8270D (SIM)	0.040 U	0.20	0.040	0.019 ug/L 1
Benzo(k)fluoranthene	207-08-9	8270D (SIM)	0.040 U	0.20	0.040	0.024 ug/L 1
Chrysene	218-01-9	8270D (SIM)	0.040 U	0.20	0.040	0.021 ug/L 1
Dibenzo(a,h)anthracene	53-70-3	8270D (SIM)	0.080 U	0.20	0.080	0.040 ug/L 1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Methylnaphthalene-d10		100	15-139
Fluoranthene-d10		91	23-154

PQL = Practical quantitation limit ND = Not detected at or above the MDL B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

Q = Surrogate failure L = LCS/LCSD failure

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

 $J = Estimated result < PQL and <math>\geq MDL$

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

S = MS/MSD failure

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Appendix D Laboratory Analytical Report - Vapor (Appendix D is not included due to presence of perched groundwater)



Appendix E Regulatory Correspondence





W. Marshall Taylor Jr., Acting Director Promoting and protecting the health of the public and the environment

April 7, 2015

Commanding Officer
Attention: NREAO Mr. William A. Drawdy
United State Marine Corps Air Station

Post Office Box 55001 Beaufort, SC 29904-5001

RE: IGWA

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 Tank 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. The submitted analytical results indicate that petroleum constituents are above established Risk-Based Screening Levels and additional investigation is warranted. Specifically, the Department requests that a groundwater sampling proposal be generated to determine if there has been an impact to groundwater at this site.

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

Stat M. W.

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: IGWA Dated 4/7/2015

Laurel Bay Underground Storage Tank Assessment Reports for: (18 addresses/19 tanks)

1186 Bobwhite	1417 Albatross	
1194 Cardinal	1420 Dove	
1354 Cardinal	1421 Albatross Tank 1	
1362 Cardinal	1421 Albatross Tank 2	
1364 Cardinal Tank 1	1427 Albatross	
1403 Eagle	1429 Albatross	
1404 Eagle	1444 Dove Tank 1	
1405 Eagle	1453 Cardinal	
1408 Eagle	1455 Cardinal	
1410 Eagle		



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

Division of Waste Management Bureau of Land and Waste Management

February 22, 2016

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

RE: Approval and Concurrence with Draft Final Initial Groundwater Investigation Report-May and June 2015

Laurel Bay Military Housing Area Multiple Properties

Dated October 2015

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received groundwater data in the above referenced Groundwater Investigation Report for the addresses attached. 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).

Per the Department's request, groundwater samples were collected from the attached referenced addresses. The Department reviewed the groundwater data and previous investigations and it agrees with the conclusions and recommendations included in the document. To further assess the impact to groundwater, permanent wells should be installed at the 52 stated addresses. For the remaining 91 addresses, there is no indication of contamination on the property 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 petruslb@dhec.sc.gov or 803-898-0294.

Sincerely,

Laurel Petrus

LIRA

RCRA Federal Facilities Section

Attachment: Specific Property Recommendations

Cc: Russell Berry, EQC Region 8 (via email)

Shawn Dolan, Resolution Consultants (via email)

Bryan Beck, NAVFAC MIDATLANTIC (via email)

Craig Ehde (via email)

Attachment to: Petrus to Drawdy

Subject: Draft Final Initial Groundwater Investigation Report-May and June 2015

Specific Property Recommendations

Dated February 22, 2016

Draft Final Initial Groundwater Investigation Report for (143 addresses)

273 Birch Drive	1192 Bobwhite Drive
325 Ash Street	1194 Bobwhite Drive
326 Ash Street	1272 Albatross Drive
336 Ash Street	1352 Cardinal Lane
343 Ash Street	1356 Cardinal Lane
353 Ash Street	1359 Cardinal Lane
430 Elderberry Drive	1360 Cardinal Lane
440 Elderberry Drive	1362 Cardinal Lane
456 Elderberry Drive	1370 Cardinal Lane
458 Elderberry Drive	1382 Dove Lane
468 Dogwood Drive	1384 Dove lane
518 Laurel Bay Blvd	1385 Dove Lane
635 Dahlia Drive	1389 Dove Lane
638 Dahlia Drive	1392 Dove Lane
640 Dahlia Drive	1393 Dove Lane
647 Dahlia Drive	1407 Eagle Lane
648 Dahlia Drive	1411 Eagle Lane
650 Dahlia Drive	1418 Albatross Drive
652 Dahlia Drive	1420 Albatross Drive
760 Althea Street	1426 Albatross Drive
1102 Iris Lane	1429 Albatross Drive
1132 Iris Lane	1434 Dove Lane
1133 Iris Lane	1436 Dove Lane
1144 Iris Lane	1440 Dove Lane
1148 Iris Lane	1442 Dove Lane
1186 Bobwhite Drive	1444 Dove Lane
No Fur	ther Action recommendation (91 addresses):
137 Laurel Bay Blvd	771 Althea Street
139 Laurel Bay Blvd	927 Albacore Street
229 Cypress Street	1015 Foxglove Street
261 Beech Street	1046 Gardenia Drive
276 Birch Drive	1062 Gardenia Drive
278 Birch Drive	1070 Heather Street
291 Birch Drive	1072 Heather Street

300 Ash Street	1107 Iris Lane	
304 Ash Street	1126 Iris Lane	
314 Ash Street	1129 Iris Lane	
322 Ash Street	1138 Iris Lane	70/00/2-00
323 Ash Street	1161 Jasmine Street	
324 Ash Street	1167 Jasmine Street	
339 Ash Street	1170 Jasmine Street	
344 Ash Street	1190 Bobwhite Drive	
348 Ash Street	1219 Cardinal Lane	
349 Ash Street	1305 Eagle Lane	
362 Aspen Street	1353 Cardinal Lane	
376 Aspen Street	1354 Cardinal Lane	
380 Aspen Street	1357 Cardinal Lane	
383 Aspen Street	1361 Cardinal Lane	
387 Acorn Drive	1364 Cardinal Lane	- 3
392 Acorn Drive	1368 Cardinal Lane	
396 Acorn Drive	1377 Dove Lane	
433 Elderberry Drive	1381 Dove Lane	
439 Elderberry Drive	1391 Dove Lane	
442 Elderberry Drive	1403 Eagle Lane	
443 Elderberry Drive	1404 Eagle Lane	
444 Elderberry Drive	1405 Eagle Lane	
445 Elderberry Drive	1406 Eagle Lane	
446 Elderberry Drive	1408 Eagle Lane	
448 Elderberry Drive	1410 Eagle Lane	
449 Elderberry Drive	1412 Eagle Lane	
451 Elderberry Drive	1413 Albatross Drive	7777
453 Elderberry Drive	1414 Albatross Drive	
464 Dogwood Drive	1417 Albatross Drive	
466 Dogwood Drive	1421 Albatross Drive	-20.014
467 Dogwood Drive	1422 Albatross Drive	
469 Dogwood Drive	1425 Albatross Drive	
471 Dogwood Drive	1427 Albatross Drive	
475 Dogwood Drive	1430 Dove Lane	
516 Laurel Bay Blvd	1432 Dove Lane	
531 Laurel Bay Blvd	1438 Dove Lane	
532 Laurel Bay Blvd	1453 Cardinal Lane	
645 Dahlia Drive	1455 Cardinal Lane	
763 Althea Street		

Attachment to: Petrus to Drawdy

Subject: Draft Final Initial Groundwater Investigation Report-May and June 2015

Specific Property Recommendations Dated February 22, 2016, Page 2



June 20, 2017

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

RE: Approval Response to Comments and Draft Final Revision 1 Vapor Intrusion Report July 2015, January 2016 and May 2016, Laurel Bay Military Housing Area, Multiple Properties

RE: Approval Response to Comments and Draft Final Revision 1 Letter Report - Petroleum Vapor Intrusion Investigations - June 2016 and January 2017, Multiple Properties, Laurel Bay Military Housing Area

Dear Mr. Drawdy:

The South Carolina Department of Health and Environmental Control (DHEC) received the above referenced response to comments and errata pages on May 24 and June 7, 2017. 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).

DHEC has reviewed the response to comments and errata pages. Based on this review, DHEC did not generate any additional comments. 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 petruslb@dhec.sc.gov or 803-898-0294.

Sincerely,

Laurel Petrus

ZIRES

Department of Defense Corrective Action Section

Cc:

Russell Berry, EQC Region 8

Shawn Dolan, Resolution Consultants Bryan Beck, NAVFAC MIDLANT