SUMMARY REPORT 463 ASH STREET (FORMERLY 344 ASH STREET) LAUREL BAY MILITARY HOUSING AREA MARINE CORPS AIR STATION BEAUFORT BEAUFORT, SC

> Revision: 0 Prepared for:

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

and



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

JUNE 2021

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Prepared by:



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



Summary Report 463 Ash Street (Formerly 344 Ash Street) Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort June 2021

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List of Acronyms

bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
СТО	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
QAPP	Quality Assurance Program Plan
RBSL	risk-based screening level
SCDHEC	South Carolina Department of Health and Environmental Control
Site	LBMH area at MCAS Beaufort, South Carolina
UST	underground storage tank
VISL	vapor intrusion screening level



1.0 INTRODUCTION

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

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

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 463 Ash Street (Formerly 344 Ash Street). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

1.1 Background Information

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



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

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

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

1.2 UST Removal and Assessment Process

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

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

Soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form. In accordance with SCDHEC's *QAPP for the UST Management*



Division (SCDHEC, 2016), the soil screening levels consists of SCDHEC risk-based screening levels (RBSLs). It should be noted that the RBSLs for select PAHs were revised in Revision 2.0 of the QAPP (SCDHEC, 2013) and were revised again in Revision 3.0 (SCDHEC, 2015). The screening levels used for evaluation at each site were those levels that were in effect at the time of reporting and review by SCDHEC.

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

2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 463 Ash Street (Formerly 344 Ash Street). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 344 Ash Street* (MCAS Beaufort, 2012). 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.

2.1 UST Removal and Soil Sampling

On February 22, 2012, two 280 gallon heating oil USTs were removed at 463 Ash Street (Formerly 344 Ash Street). Tank 1 was removed from the front landscaped bed area adjacent to the driveway. Tank 2 was removed from underneath the front concrete walk adjacent to the driveway. The former UST locations are indicated in Figures 2 and 3 of the UST Assessment



Report (Appendix B). The USTs were removed, cleaned, and shipped offsite for recycling. 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 depths to the bases of the USTs were 6'0" (Tank 1) and 3'8" (Tank 2) bgs and a single soil sample was collected for each at that depth. The samples were collected from the fill port side of the former USTs to represent a worst case scenario.

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

2.2 Soil Analytical Results

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

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST locations (Tanks 1 and 2) were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from the former UST locations (Tanks 1 and 2) at 463 Ash Street (Formerly 344 Ash Street) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In letters dated May 15, 2014 (Tank 1) and July 1, 2015 (Tank 2), SCDHEC requested IGWAs to be conducted at the former UST locations (Tanks 1 and 2) at 463 Ash Street (Formerly 344 Ash Street) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letters are provided in Appendix D.

2.3 Groundwater Sampling

On June 1, 2015, a temporary monitoring well was installed at 463 Ash Street (Formerly 344 Ash Street), 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 USTs (i.e, in between Tanks 1



and 2 due to small spacing). The former UST locations are indicated in 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 463 Ash Street (Formerly 344 Ash Street) 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.

3.0 **PROPERTY STATUS**

Based on the analytical results for groundwater, SCDHEC made the determination that NFA was required for 463 Ash Street (Formerly 344 Ash Street). This NFA determination was obtained in a letter dated February 22, 2016. SCDHEC's NFA letter is provided in Appendix D.

4.0 **REFERENCES**

- Marine Corps Air Station Beaufort, 2012. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report 344 Ash Street, Laurel Bay Military Housing Area*, June 2012.
- 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.



- 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.

Tables



Table 1 Laboratory Analytical Results - Soil 463 Ash Street (Formerly 344 Ash Street) Laurel Bay Military Housing Area Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Samples Collected 02/22/12		
		344 Ash-1	344 Ash-2	
Volatile Organic Compounds Analyzed	by EPA Method 8260B (mg/kg)			
Benzene	0.003	ND	ND	
Ethylbenzene	1.15	0.318	0.00262	
Naphthalene	0.036	2.89	0.202	
Toluene	0.627	ND	ND	
Xylenes, Total	13.01	ND	0.00220	
Semivolatile Organic Compounds Ana	lyzed by EPA Method 8270D (mg/kg)	•		
Benzo(a)anthracene	0.66	0.731	ND	
Benzo(b)fluoranthene	0.66	0.365	ND	
Benzo(k)fluoranthene	0.66	0.227 ND		
Chrysene	0.66	0.551	ND	
Dibenz(a,h)anthracene	0.66	ND	ND	

Notes:

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

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

Table 2Laboratory Analytical Results - Groundwater463 Ash Street (Formerly 344 Ash Street)Laurel Bay Military Housing AreaMarine Corps Air Station BeaufortBeaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Site-Specific Groundwater VISLs (µg/L) ⁽²⁾	Results Sample Collected 06/01/15	
Volatile Organic Compounds Analyzed	l by EPA Method 8260B (µg	/L)		
Benzene	5	16.24	ND	
Ethylbenzene	700	45.95	0.64	
Naphthalene	25	29.33	4.9	
Toluene	1000	105,445	ND	
Xylenes, Total	10,000	2,133	1.4	
Semivolatile Organic Compounds Ana	lyzed by EPA Method 8270) (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:

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

⁽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.

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

Appendix A Multi-Media Selection Process for LBMH





Appendix A - Multi-Media Selection Process for LBMH

Appendix B UST Assessment Report



V redd6112112

Attachment 1

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

Date Received

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State Use Only

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

I. OWNERSHIP OF UST (S)

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

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. # Laurel Bay Milit Facility Name or Compa	ary Housing Area, Marine Corps Air Station, Beaufort, SC ny Site Identifier
344 Ash Street,	Laurel Bay Military Housing Area
Street Address or State R	.oad (as applicable)
Beaufort,	Beaufort
City	County

Attachment 2

III. INSURANCE INFORMATION

Insurance Statement

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

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

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

My policy provider is: ______ The policy deductible is: ______ The policy limit is: ______

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

IV. REQUEST FOR SUPERB FUNDING

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

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

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

Name (Type or print.)

Signature

To be completed by Notary Public:

Sworn before me this _____ day of _____, 20____

(Name)

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

VI. UST INFORMATION

		344Ash-1	344Ash-2
A.	Product(ex. Gas, Kerosene)	Heating oil	Heating oil
B.	Capacity(ex. 1k, 2k)	280 gal	280 gal
C.	Age	Late 1950s	Late 1950s
D.	Construction Material(ex. Steel, FRP)	Steel	Steel
Е·	Month/Year of Last Use	Mid 80s	Mid 80s
E.	Depth (ft.) To Base of Tank	6'	3 ' 8 "
G.		No	No
		No	No
Η·	Method of Closure Removed/Filled	Removed	Removed
I. I		2/22/2012	2/22/2012
	Date Tanks Removed/Filled	Yes	Yes
K.	visible conosion of Fitting 171		Yes
L.	Visible Holes Y/N		

2117ah 1

344Ach-2

M. Method of disposal for any USTs removed from the ground (attach disposal manifests) UST 344Ash-1 was removed from the ground, cleaned and recycled. UST 344Ash-2 was removed from the ground, and disposed at a Subtitle "D" landfill. See Attachment "A".

- N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests) <u>Contaminated water was pumped from UST 344Ash-1 and disposed by MCAS</u>. UST 344Ash-2 was previously filled with sand by others.
- O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST Corrosion, pitting and holes were found in both tanks.

VII. PIPING INFORMATION

F

		344Ash-1	344Ash-2		
		Steel	Steel		
A.	Construction Material(ex. Steel, FRP)	& Copper	& Copper		
B.	Distance from UST to Dispenser	N/A	N/A		
C.	Number of Dispensers	N/A	N/A		
D.	Type of System Pressure or Suction	Suction	Suction		
E.	Was Piping Removed from the Ground? Y/N	Yes	Yes		
F.	Visible Corrosion or Pitting Y/N	Yes	Yes		
G.	Visible Holes Y/N	No	No		
H.	Age	Late 1950s	Late 1950s		
I.	If any corrosion, pitting, or holes were observed, describe the location and extent for each piping run.				
	Steel vent piping for both tanks were corroded and pitted. All				
	copper supply and return piping were sound.				

VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

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

IX. SITE CONDITIONS

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

В.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
344Ash-1	Excav at fill end	Soil	Sandy	6'	2/22/12 1330 hrs	P. Shaw	
	Excav at fill end		Sandy	3'8"	2/22/12	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16	: 						
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

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

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

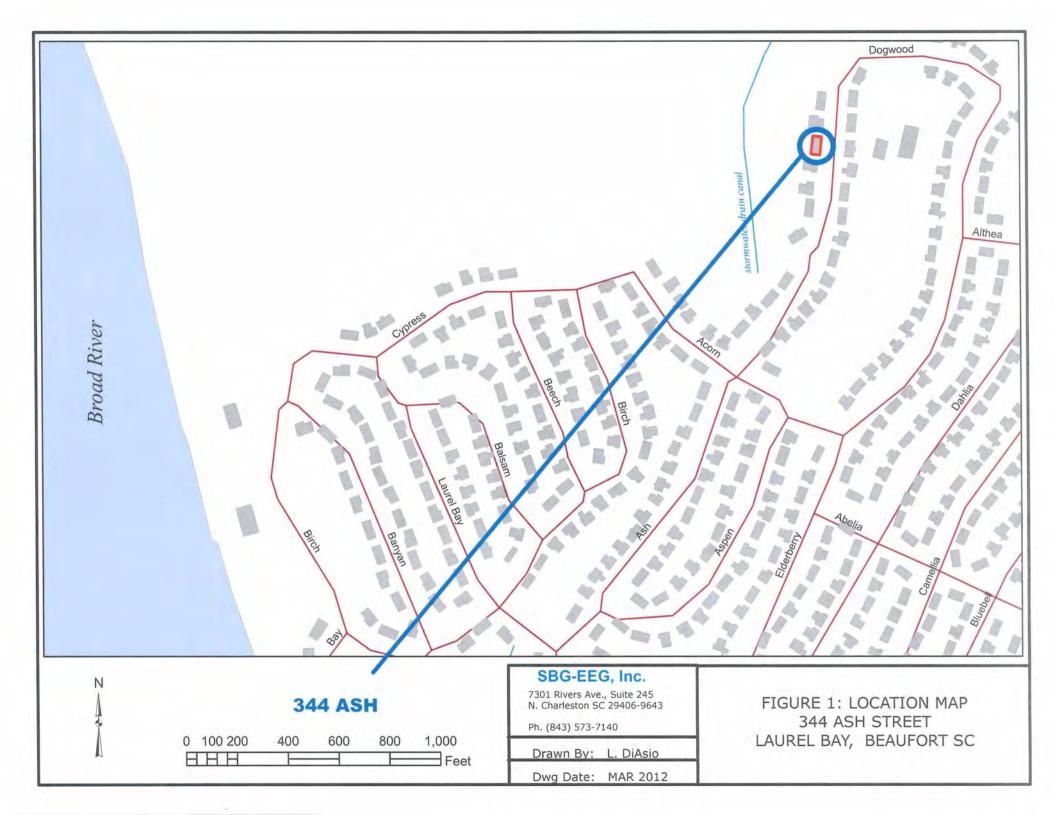
XII. RECEPTORS

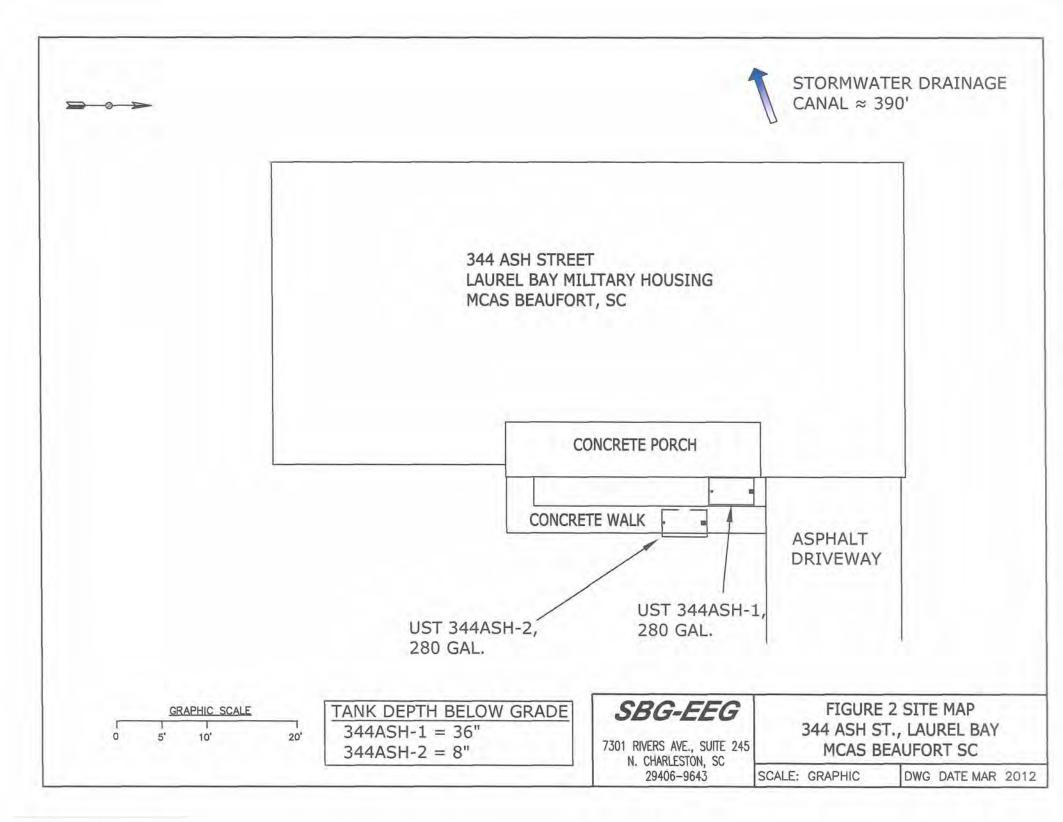
		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?	*X	
	*Stormwater canal	~390'	
	If yes, indicate type of receptor, distance, and direction on site map.		
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		Х
	If yes, indicate type of well, distance, and direction on site map.		
C.	Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?		X
	If yes, indicate type of structure, distance, and direction on site map.		
D.	Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? *Sewer, water, electricity		ty,
	cable & fiber optic If yes, indicate the type of utility, distance, and direction on the site map.		
E.	Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete?		Х
	If yes, indicate the area of contaminated soil on the site map.		

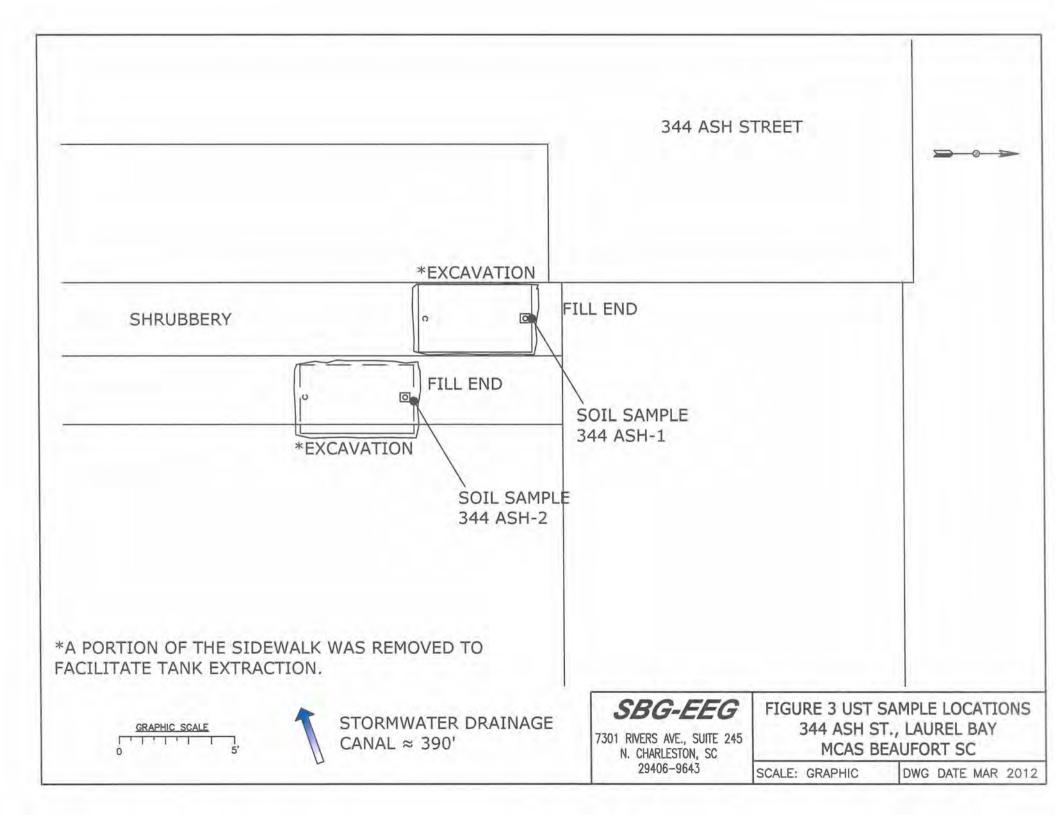
XIII. SITE MAP

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

(Attach Site Map Here)









Picture 1: Location of tanks at 344 Ash Street.



Picture 2: UST 344Ash-1 tank pit.



Picture 3: UST 344Ash-2 excavation.



Picture 4: UST 344Ash-2 being prepared for transport.

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.

		-	 <u> </u>		T	1	
CoC UST	344Ash	1-1	344A	sh-2	ļ		
Benzene	ND		 ND				
Toluene	ND		 ND)		
Ethylbenzene	0.318	mg/kg	0.00262 mg/kg		g		
Xylenes		ND	0.00220 mg/kg		g		
Naphthalene	2.89 mg/kg		 0.202 mg/kg				
Benzo (a) anthracene	0.731 mg/kg		ND				
Benzo (b) fluoranthene	0.365 mg/kg		 ND				
Benzo (k) fluoranthene	0.227 mg/kg		ND				
Chrysene	0.551 mg/kg		 ND				
Dibenz (a, h) anthracene	ND		ND				
ТРН (ЕРА 3550)							
			<u> </u>			1	T]
CoC			 				
Benzene			 				
Toluene							
Ethylbenzene			 *				
Xylenes							
Naphthalene							
Benzo (a) anthracene							
Benzo (b) fluoranthene							
Benzo (k) fluoranthene							
Chrysene							
Dibenz (a, h) anthracene							
TPH (EPA 3550)							

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

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

XV. ANALYTICAL RESULTS

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

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



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc. TestAmerica Nashville 2960 Foster Creighton Road Nashville, TN 37204 Tel: 800-765-0980

TestAmerica Job ID: NWB3548

Client Project/Site: [none] Client Project Description: Laurel Bay Housing Project

For:

EEG - Small Business Group, Inc. (2449) 10179 Highway 78 Ladson, SC 29456

Attn: Tom McElwee

fa Has

Authorized for release by: 3/7/2012 2:24:45 PM

Ken A. Hayes Senior Project Manager ken.hayes@testamericainc.com

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

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

1

Review your project results through Total Access

LINKS



Visit us at: www.testamericainc.com

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Chain of Custody	19

Client: EEG - Small Business Group, Inc. (2449) Project/Site: [none]

TestAmerica	Job	ID:	NWB3548

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
NWB3548-01	348 Ash	Soil	02/21/12 14:30	02/25/12 08:30	
NWB3548-02	344 Ash-1	Soil	02/22/12 13:30	02/25/12 08:30	
NWB3548-03	344 Ash-2	Soil	02/22/12 14:30	02/25/12 08:30	

Qualifiers

GCMS Vola	tiles	4
Qualifier	Qualifier Description	
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
RL1	Reporting limit raised due to sample matrix effects.	
GCMS Sem	ivolatiles	
Qualifier	Qualifier Description	

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

Glossary

J

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

5

Client Sample ID: 348 Ash									wine Car
Date Collected: 02/21/12 14:30									trix: Soi
Date Received: 02/25/12 08:30								Percent Soli	ids: 79.9
Method: SW846 8260B - Volatile	Organic Comp	ounds by I	EPA Method 82	260B					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0,0317		0.00209	0.00115	mg/kg dry	Ģ	02/21/12 14:30	02/27/12 19:09	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4	114		70-130				02/21/12 14:30	02/27/12 19:09	1.00
Dibromofluoromethane	106		70-130				02/21/12 14:30	02/27/12 19:09	1.00
Toluene-d8	132	ZX	70 - 130				02/21/12 14:30	02/27/12 19:09	1.00
4-Bromofluorobenzene	89		70 - 130				02/21/12 14:30	02/27/12 19:09	1.00
Method: SW846 8260B - Volatile	Oranois Comr	ounds by I	DA Mathod 81						
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene		RL1 J	0.104		mg/kg dry	- 7	02/21/12 14:30	02/28/12 14:01	50.0
Naphthalene	0.627	RET J	0.260	0.130		a.	02/21/12 14:30	02/28/12 14:01	50.0
Toluene		RL1	0.104		mg/kg dry	17	02/21/12 14:30	02/28/12 14:01	50.0
Xylenes, total	0,194		0.260		mg/kg dry	12	02/21/12 14:30	02/28/12 14:01	50,0
Aylenes, total	0.134	JACI	0,200	0.100	inging dry		0221112 14.00	02120112 14,01	50,0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	85		70 - 130				02/21/12 14:30	02/28/12 14:01	50.0
Dibromofluoromethane	86		70 - 130				02/21/12 14:30	02/28/12 14:01	50.0
Toluene-d8	106		70 - 130				02/21/12 14:30	02/28/12 14:01	50.0
			70 120				02/21/12 14:30	02/28/12 14:01	50.0
4-Bromofluorobenzene	104		70 - 130				0002171271.00		
							0020727100		
Method: SW846 8270D - Polyaron	matic Hydroca		PA 8270D		11.4				
Method: SW846 8270D - Polyaroi Analyte	matic Hydroca Result	Qualifier	PA 8270D RL	MDL		D	Prepared	Analyzed	Dil Fac
Method: SW846 8270D - Polyaron Analyte Acenaphthene	matic Hydroca Result 0.0681		PA 8270D RL 0.0834	0.0423	mg/kg dry	ā	Prepared 02/27/12 12:30	Analyzed 03/01/12 17:59	1.00
Method: SW846 8270D - Polyaron Analyte Acenaphthene Acenaphthylene	matic Hydroca Result 0.0681 ND	Qualifier	PA 8270D RL 0.0834 0.0834	0.0423 0.0423	mg/kg dry mg/kg dry	a	Prepared 02/27/12 12:30 02/27/12 12:30	Analyzed 03/01/12 17:59 03/01/12 17:59	1.00
Method: SW846 8270D - Polyaron Analyte Acenaphthene Acenaphthylene Anthracene	matic Hydroca Result 0.0681 ND ND	Qualifier	PA 8270D RL 0.0834 0.0834 0.0834	0.0423 0.0423 0.0423	mg/kg dry mg/kg dry mg/kg dry	a a a	Prepared 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30	Analyzed 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59	1.00 1.00 1.00
Method: SW846 8270D - Polyaron Analyte Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene	matic Hydroca Result 0.0681 ND ND ND	Qualifier	PA 8270D RL 0.0834 0.0834 0.0834 0.0834	0.0423 0.0423 0.0423 0.0423	mg/kg dry mg/kg dry mg/kg dry mg/kg dry	0 0 0 0	Prepared 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30	Analyzed 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59	1.00 1.00 1.00 1.00
Method: SW846 8270D - Polyaron Analyte Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) pyrene	matic Hydroca Result 0.0681 ND ND ND ND	Qualifier	PA 8270D RL 0.0834 0.0834 0.0834 0.0834 0.0834	0.0423 0.0423 0.0423 0.0423 0.0423	mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry	00000	Prepared 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30	Analyzed 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59	1.00 1.00 1.00 1.00 1.00
Method: SW846 8270D - Polyaron Analyte Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene	matic Hydroca Result 0.0681 ND ND ND ND ND	Qualifier	PA 8270D RL 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834	0.0423 0.0423 0.0423 0.0423 0.0423 0.0423	mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry	9 9 9 9 9 9	Prepared 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30	Analyzed 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59	1.00 1.00 1.00 1.00 1.00 1.00
Method: SW846 8270D - Polyaron Analyte Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo (g,h,i) perylene	matic Hydroca Result 0.0681 ND ND ND ND ND ND ND	Qualifier	PA 8270D RL 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834	0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423	mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry	9 9 9 9 9 9 9	Prepared 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30	Analyzed 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59	1.00 1.00 1.00 1.00 1.00 1.00
Method: SW846 8270D - Polyaron Analyte Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo (g,h,i) perylene Benzo (k) fluoranthene	matic Hydroca Result 0.0681 ND ND ND ND ND ND ND	Qualifier	PA 8270D RL 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834	0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423	mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry	9 9 9 9 9 9 9	Prepared 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30	Analyzed 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59	1.00 1.00 1.00 1.00 1.00 1.00 1.00
Method: SW846 8270D - Polyaron Analyte Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo (g,h,i) perylene Benzo (k) fluoranthene	matic Hydroca Result 0.0681 ND ND ND ND ND ND ND ND ND	Qualifier	PA 8270D RL 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834	0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423	mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry	a a a a a a a a a	Prepared 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30 02/27/12 12:30	Analyzed 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59 03/01/12 17:59	1.00 1.00 1.00 1.00 1.00 1.00 1.00
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Method: SW846 8270D - Polyaron Analyte Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo (c), fluoranthene Benzo (k) fluoranthene Chrysene Dibenz (a,h) anthracene Fluorenthene Fluorene Indeno (1,2,3-cd) pyrene Naphthalene	matic Hydroca Result 0.0681 ND ND ND ND ND ND ND ND ND ND ND ND ND	Qualifier	PA 8270D RL 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834	0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423	mg/kg dry mg/kg dry	0 0 0 0 0 0 0 0 0 0 0	Prepared 02/27/12 12:30 02/27/12 12:30	Analyzed 03/01/12 17:59 03/01/12 17:59	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Method: SW846 8270D - Polyaron Analyte Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo (g,h,i) perylene Benzo (k) fluoranthene Chrysene Dibenz (a,h) anthracene Fluorene Indeno (1,2,3-cd) pyrene Naphthalene Phenanthrene	matic Hydroca Result 0.0681 ND ND ND ND ND ND ND ND ND ND ND ND ND	Qualifier	PA 8270D RL 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834	0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423	mg/kg dry mg/kg dry	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Prepared 02/27/12 12:30 02/27/12 12:30	Analyzed 03/01/12 17:59 03/01/12 17:59	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Method: SW846 8270D - Polyaron Analyte Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo (g,h,i) perylene Benzo (k) fluoranthene Chrysene Dibenz (a,h) anthracene Fluorene Indeno (1,2,3-cd) pyrene Naphthalene Phenanthrene	matic Hydroca Result 0.0681 ND ND ND ND ND ND ND ND ND ND ND ND ND	Qualifier	PA 8270D RL 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834	0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423	mg/kg dry mg/kg dry	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Prepared 02/27/12 12:30 02/27/12 12:30	Analyzed 03/01/12 17:59 03/01/12 17:59	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Method: SW846 8270D - Polyaron Analyte Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo (g.h.i) perylene Benzo (k) fluoranthene Chrysene Dibenz (a,h) anthracene Fluoranthene Fluorene Indeno (1.2,3-cd) pyrene Naphthalene Phenanthrene Pyrene 1-Methylnaphthalene	matic Hydroca Result 0.0681 ND ND ND ND ND ND ND ND ND ND ND ND ND	Qualifier	PA 8270D RL 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834	0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423	mg/kg dry mg/kg dry	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Prepared 02/27/12 12:30 02/27/12 12:30	Analyzed 03/01/12 17:59 03/01/12 17:59	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Method: SW846 8270D - Polyaron Analyte Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo (c), fluoranthene Benzo (c), fluoranthene Benzo (c), fluoranthene Chrysene Dibenz (a,h) anthracene Fluorene Indeno (1,2,3-cd) pyrene Naphthalene Phenanthrene Pyrene 1-Methylnaphthalene 2-Methylnaphthalene	matic Hydroca Result 0.0681 ND ND ND ND ND ND ND ND ND ND ND ND 0.107 0.127 ND 0.135 0.317 0.159 0.631	Qualifier	PA 8270D RL 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834 0.0834	0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423	mg/kg dry mg/kg dry	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Prepared 02/27/12 12:30 02/27/12 12:30	Analyzed 03/01/12 17:59 03/01/12 17:59 03/0	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Method: SW846 8270D - Polyaron Analyte Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo (c), fluoranthene Benzo (c), fluoranthene Benzo (c), fluoranthene Chrysene Dibenz (a,h) anthracene Fluoranthene Fluorene Indeno (1,2,3-cd) pyrene Naphthalene Phenanthrene Pyrene 1-Methylnaphthalene 2-Methylnaphthalene	matic Hydroca Result 0.0681 ND ND ND ND ND ND ND ND ND ND ND ND 0.107 0.127 ND 0.135 0.317 0.159 0.631 1.06	Qualifier	PA 8270D RL 0.0834	0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423	mg/kg dry mg/kg dry	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Prepared 02/27/12 12:30 02/27/12 12:30	Analyzed 03/01/12 17:59 03/01/12 17:59	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Method: SW846 8270D - Polyaron Analyte Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo (c), fluoranthene Benzo (c), fluoranthene Benzo (c), fluoranthene Chrysene Dibenz (a,h) anthracene Fluoranthene Fluoranthene Fluorene Indeno (1,2,3-cd) pyrene Naphthalene Phenanthrene Pyrene 1-Methylnaphthalene 2-Methylnaphthalene Surrogate Terphenyl-d14	matic Hydroca Result 0.0681 ND ND ND ND ND ND ND ND ND ND ND ND 0.107 0.127 ND 0.135 0.317 0.159 0.631 1.06 %Recovery	Qualifier	PA 8270D RL 0.0834	0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423	mg/kg dry mg/kg dry	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Prepared 02/27/12 12:30 02/27/12 12:30	Analyzed 03/01/12 17:59 03/01/12 17:59	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Method: SW846 8270D - Polyaron Analyte Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo (c), fluoranthene Benzo (c), fluoranthene Benzo (c), fluoranthene Chrysene Dibenz (a,h) anthracene Fluoranthene Fluoranthene Fluorene Indeno (1,2,3-cd) pyrene Naphthalene Phenanthrene Pyrene 1-Methylnaphthalene 2-Methylnaphthalene Surrogate Terphenyl-d14 2-Fluorobiphenyl	matic Hydroca Result 0.0681 ND ND ND ND ND ND ND ND ND ND 0.107 0.127 ND 0.135 0.317 0.159 0.631 1.06 %Recovery 83	Qualifier	PA 8270D RL 0.0834	0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423	mg/kg dry mg/kg dry	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Prepared 02/27/12 12:30	Analyzed 03/01/12 17:59 03/01/12 17:59	1.00 1.00
Method: SW846 8270D - Polyaron Analyte Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo (c), fluoranthene Benzo (c), fluoranthene Benzo (c), fluoranthene Chrysene Dibenz (a,h) anthracene Fluoranthene Fluoranthene Fluorene Indeno (1,2,3-cd) pyrene Naphthalene Phenanthrene Pyrene 1-Methylnaphthalene 2-Methylnaphthalene 2-Methylnaphthalene Surrogate Terphenyl-d14 2-Fluorobiphenyl Nitrobenzene-d5	matic Hydroca Result 0.0681 ND ND ND ND ND ND ND ND ND 0.107 0.127 ND 0.107 0.127 ND 0.135 0.317 0.159 0.631 1.06 %Recovery 83 65 69	Qualifier	PA 8270D RL 0.0834	0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423	mg/kg dry mg/kg dry	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Prepared 02/27/12 12:30 02/27/12 12:30	Analyzed 03/01/12 17:59 03/01/12 17:59	1.00 1.00
Method: SW846 8270D - Polyaron Analyte Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) anthracene Benzo (b) fluoranthene Benzo (g,h,i) perylene Benzo (k) fluoranthene Chrysene Dibenz (a,h) anthracene Fluoranthene Fluorene Indeno (1,2,3-cd) pyrene Naphthalene Phenanthrene Pyrene	matic Hydroca Result 0.0681 ND ND ND ND ND ND ND ND ND 0.107 0.127 ND 0.135 0.317 0.159 0.631 1.06 %Recovery 83 65 69 istry Paramete	Qualifier	PA 8270D RL 0.0834	0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423 0.0423	mg/kg dry mg/kg dry	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Prepared 02/27/12 12:30 02/27/12 12:30	Analyzed 03/01/12 17:59 03/01/12 17:59	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Analyzed

Prepared

5

Dil Fac

Client Sample ID: 344 Ash-1	Lab Sample ID: NWB3548-02
Date Collected: 02/22/12 13:30	Matrix: Soil
Date Received: 02/25/12 08:30	Percent Solids: 73.9

Method: SW846 8260B - Volati	le Organic Compounds by EPA	Method 826	UB - RET	
Analyte	Result Qualifier	RL	MDL Unit	D

Benzene	ND	RL1	0.152	0.0834	mg/kg dry	12	02/22/12 13:30	02/28/12 14:31	50.0
Ethylbenzene	0.318		0.152	0.0834	mg/kg dry	177	02/22/12 13:30	02/28/12 14:31	50.0
Naphthalene	2.89		0.379	0.190	mg/kg dry	52	02/22/12 13:30	02/28/12 14:31	50.0
Toluene	ND	RL1	0.152	0.0834	mg/kg dry	\$\$3	02/22/12 13:30	02/28/12 14:31	50.0
Xylenes, total	ND	RL1	0.379	0.190	mg/kg dry	ç	02/22/12 13:30	02/28/12 14:31	50.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	84		70 - 130				02/22/12 13:30	02/28/12 14:31	50.0
Dibromofluoromethane	86		70 - 130				02/22/12 13:30	02/28/12 14:31	50.0
Toluene-d8	107		70 - 130				02/22/12 13:30	02/28/12 14:31	50.0
4-Bromofluorobenzene	103		70 - 130				02/22/12 13:30	02/28/12 14:31	50.0

Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.335		0.0881	0.0447	mg/kg dry	a	02/27/12 12:30	03/01/12 18:24	1.00
Acenaphthylene	0.0886		0.0881	0.0447	mg/kg dry	57	02/27/12 12:30	03/01/12 18:24	1.00
Anthracene	0.897		0.0881	0.0447	mg/kg dry	84	02/27/12 12:30	03/01/12 18:24	1.00
Benzo (a) anthracene	0.731		0.0881	0.0447	mg/kg dry	2,2	02/27/12 12:30	03/01/12 18:24	1.00
Benzo (a) pyrene	0.239		0.0881	0.0447	mg/kg dry	0	02/27/12 12:30	03/01/12 18:24	1.00
Benzo (b) fluoranthene	0.365		0.0881	0.0447	mg/kg dry	357	02/27/12 12:30	03/01/12 18:24	1.00
Benzo (g,h,i) perylene	0.0662	J	0.0881	0.0447	mg/kg dry	ø	02/27/12 12:30	03/01/12 18:24	1.00
Benzo (k) fluoranthene	0.227		0.0881	0.0447	mg/kg dry	¢	02/27/12 12:30	03/01/12 18:24	1.00
Chrysene	0.551		0.0881	0.0447	mg/kg dry	17	02/27/12 12:30	03/01/12 18:24	1.00
Dibenz (a,h) anthracene	ND		0.0881	0.0447	mg/kg dry	0	02/27/12 12:30	03/01/12 18:24	1.00
Fluoranthene	3.71		0.0881	0.0447	mg/kg dry	a	02/27/12 12:30	03/01/12 18:24	1.00
Fluorene	0.983		0.0881	0.0447	mg/kg dry	4	02/27/12 12:30	03/01/12 18:24	1.00
Indeno (1,2,3-cd) pyrene	0.0763	J	0.0881	0.0447	mg/kg dry	17	02/27/12 12:30	03/01/12 18:24	1.00
Naphthalene	0.486		0.0881	0.0447	mg/kg dry	- 52	02/27/12 12:30	03/01/12 18:24	1.00
Pyrene	2.86		0.0881	0.0447	mg/kg dry	¢3.	02/27/12 12:30	03/01/12 18:24	1.00
1-Methylnaphthalene	2,45		0.0881	0.0447	mg/kg dry	Ç5	02/27/12 12:30	03/01/12 18:24	1.00
2-Methylnaphthalene	4.12		0.0881	0,0447	mg/kg dry	a	02/27/12 12:30	03/01/12 18:24	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14	82		18 - 120				02/27/12 12:30	03/01/12 18:24	1.00
2-Fluorobiphenyl	54		14 - 120				02/27/12 12:30	03/01/12 18:24	1.00
Nitrobenzene-d5	77		17 - 120				02/27/12 12:30	03/01/12 18:24	1.00

Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	6.02		0.176	0.0895	mg/kg dry	<u>n</u>	02/27/12 12:30	03/02/12 00:00	2.00
Method: SW-846 - General	Chemistry Paramete	rs							
Method: SW-846 - General Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

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Client Sample ID: 344 A	ent Sample ID: 344 Ash-2								Lab Sample ID: NWB3548-03			
Date Collected: 02/22/12 14:	te Collected: 02/22/12 14:30							Mat	rix: Soil			
Date Received: 02/25/12 08:	30							Percent Soli	ds: 83.8			
Method: SW846 8260B - V	olatile Organic Compo	ounds by EPA I	Method 82	60B - RE1								
Method: SW846 8260B - V Analyte	and a second	Qualifier	Method 82 RL	60B + RE1 MDL	Unit	D	Prepared	Analyzed	Dil Fac			
	and a second				- 20 CV	D 0	Prepared 02/22/12 14:30	Analyzed 02/28/12 13:01	Dil Fac			
Analyte	Result		RL	MDL	Unit	D 0 0						

Xylenes, total	0.00220	4	0.00405	0.00202 mg/kg dry	4	02/22/12 14:30	02/28/12 13:01	1.00
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	87		70 - 130			02/22/12 14:30	02/28/12 13:01	1.00
Dibromofluoromethane	93		70 - 130			02/22/12 14:30	02/28/12 13:01	1.00
Toluene-d8	120		70 - 130			02/22/12 14:30	02/28/12 13:01	1.00
4-Bromofluorobenzene	133	ZX	70 - 130			02/22/12 14:30	02/28/12 13:01	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.202	J RL1	0.262	0.131	mg/kg dry	ā	02/22/12 14:30	02/28/12 13:31	50.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	83		70 - 130				02/22/12 14:30	02/28/12 13:31	50.0
Dibromofluoromethane	87		70 - 130				02/22/12 14:30	02/28/12 13:31	50.0
Toluene-d8	109		70-130				02/22/12 14:30	02/28/12 13:31	50.0
4-Bromofluorobenzene	98		70 - 130				02/22/12 14:30	02/28/12 13:31	50.0

Method: SW846 8270D - Polvaromatic Hydrocarbons by EPA 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.287		0.0795	0.0404	mg/kg dry	斑	02/27/12 12:30	03/01/12 18:48	1.00
Acenaphthylene	0.118		0.0795	0.0404	mg/kg dry	22 22	02/27/12 12:30	03/01/12 18:48	1.00
Anthracene	0.189		0.0795	0.0404	mg/kg dry	24	02/27/12 12:30	03/01/12 18:48	1.00
Benzo (a) anthracene	ND		0.0795	0.0404	mg/kg dry	13	02/27/12 12:30	03/01/12 18:48	1.00
Benzo (a) pyrene	ND		0.0795	0.0404	mg/kg dry	ġ.	02/27/12 12:30	03/01/12 18:48	1.00
Benzo (b) fluoranthene	ND		0.0795	0.0404	mg/kg dry	¢	02/27/12 12:30	03/01/12 18:48	1.00
Benzo (g,h,i) perylene	ND		0.0795	0.0404	mg/kg dry	¢.	02/27/12 12:30	03/01/12 18:48	1.00
Benzo (k) fluoranthene	ND		0.0795	0.0404	mg/kg dry	ę	02/27/12 12:30	03/01/12 18:48	1.00
Chrysene	ND		0.0795	0.0404	mg/kg dry	Ċ.	02/27/12 12:30	03/01/12 18:48	1.00
Dibenz (a,h) anthracene	ND		0.0795	0.0404	mg/kg dry	0	02/27/12 12:30	03/01/12 18:48	1.00
Fluoranthene	0.0756	J	0.0795	0.0404	mg/kg dry	0	02/27/12 12:30	03/01/12 18:48	1.00
Fluorene	0.750		0.0795	0.0404	mg/kg dry		02/27/12 12:30	03/01/12 18:48	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0795	0.0404	mg/kg dry		02/27/12 12:30	03/01/12 18:48	1.00
Naphthalene	0.123		0.0795	0.0404	mg/kg dry	0	02/27/12 12:30	03/01/12 18:48	1.00
Phenanthrene	2.25		0.0795	0.0404	mg/kg dry	0	02/27/12 12:30	03/01/12 18:48	1.00
Pyrene	0.142		0.0795	0.0404	mg/kg dry		02/27/12 12:30	03/01/12 18:48	1.00
1-Methylnaphthalene	1.26		0.0795	0.0404	mg/kg dry	17	02/27/12 12:30	03/01/12 18:48	1.00
2-Methylnaphthalene	2.54		0.0795	0.0404	mg/kg dry	Þ	02/27/12 12:30	03/01/12 18:48	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14	82		18 - 120				02/27/12 12:30	03/01/12 18:48	1.00
2-Fluorobiphenyl	64		14 - 120				02/27/12 12:30	03/01/12 18:48	1.00
Nitrobenzene-d5	88		17 - 120				02/27/12 12:30	03/01/12 18:48	1.00
Method: SW-846 - General C	hemistry Paramete	ers							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	83.8	_	0.500	0.500	%		02/27/12 12:43	02/28/12 09:26	1.00

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Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 12B6363-BLK1								Cli	ent Sa	ample ID: Metho	
Matrix: Soil										Prep Typ	
Analysis Batch: V003807		2.00								Prep Batch: 128	36363_F
and and		Blank			-		2	-		4777-411	-
Analyte		Qualifier	RL		Unit		D	Prepa		Analyzed	Dil Fa
Benzene	ND		0.00200	0.00110				2/28/12		02/28/12 12:00	1.00
Ethylbenzene	ND		0.00200	0.00110) mg/kg w	et	C	02/28/12	10:00	02/28/12 12:00	1.00
Naphthalene	ND		0.00500	0.00250) mg/kg w	et	C	02/28/12	10:00	02/28/12 12:00	1.00
Toluene	ND		0.00200	0.00110) mg/kg w	et	C	02/28/12	10:00	02/28/12 12:00	1.00
Xylenes, total	ND		0.00500	0.00250	mg/kg w	et	C	2/28/12	10:00	02/28/12 12:00	1.0
	Blank	Blank									
Surrogate	%Recovery		Limits					Prepa	red	Analyzed	Dil Fac
1,2-Dichloroethane-d4	80	quanner	70 - 130				7	2/28/12		02/28/12 12:00	1.00
Dibromofluoromethane	86		70 - 130					2/28/12		02/28/12 12:00	1.00
Toluene-d8	109		70 - 130					02/28/12		02/28/12 12:00	1.00
4-Bromofluorobenzene	102		70 - 130				0	2/28/12	10:00	02/28/12 12:00	1.00
Lab Sample ID: 12B6363-BLK2								Clie	ent Sa	mple ID: Metho	d Blan
Matrix: Soil										Prep Typ	e: Tota
Analysis Batch: V003807									F	Prep Batch: 12E	36363 F
	Blank	Blank									
Analyte	Result	Qualifier	RL	MDL	Unit		D	Prepar	red	Analyzed	Dil Fac
Benzene	ND		0.100	0.0550	mg/kg w	et	0	2/28/12	10:00	02/28/12 12:31	50.0
Ethylbenzene	ND		0.100	0.0550	mg/kg w	et	0	2/28/12	10:00	02/28/12 12:31	50.0
Naphthalene	ND		0.250	0.125	mg/kg w	et	0	2/28/12	10:00	02/28/12 12:31	50.0
Toluene	ND		0,100	0.0550			0	2/28/12	10:00	02/28/12 12:31	50.0
Xylenes, total	ND		0.250	0.125	mg/kg we		0	2/28/12	10:00	02/28/12 12:31	50.0
	Blank	Blank									
Surrogate	%Recovery	Qualifier	Limits					Prepar	red	Analyzed	Dil Fac
1.2-Dichloroethane-d4	82	a danner	70 - 130				0	2/28/12		02/28/12 12:31	50.0
Dibromofluoromethane	89		70 - 130					2/28/12		02/28/12 12:31	50.0
Toluene-d8	107		70 - 130					2/28/12		02/28/12 12:31	50.0
4-Bromofluorobenzene	107		70 - 130					2/28/12		02/28/12 12:31	50.0
-Biomonuorobenzene	100		10-130				0	2120112	10.00	02/20/12 12:51	50.0
Lab Sample ID: 12B6363-BS1							Clie	nt San	nple I	D: Lab Control	Sample
Matrix: Soil										Prep Typ	
Analysis Batch: V003807									P	rep Batch: 12B	
analysis baten. receber			Spike	LCS LC	s					%Rec.	0000_1
Analyte			Added	Result Qu	ualifier	Unit		D %	Rec	Limits	
Benzene			50.0	47.4		ug/kg	-		95	75 - 127	
Ethylbenzene			50.0	54.4		ug/kg			109	80 - 134	
Naphthalene			50.0	50.0		ug/kg			100	69 - 150	
Foluene			50.0	52.6		ug/kg			105	80 - 132	
() and ()				02.0		-9.49			100		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4	84		70 - 130
Dibromofluoromethane	91		70 - 130
Toluene-d8	106		70 - 130
4-Bromofluorobenzene	102		70-130

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Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12B7052-BLK1							Client Sa	mple ID: Metho	od Blan
Matrix: Soil								Prep Typ	pe: Tota
Analysis Batch: V003553							1	Prep Batch: 12	B7052_I
	Blank	Blank							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	ND		0.00200	0,00110	mg/kg wet		02/27/11 10:02	02/27/12 12:06	1.0
Ethylbenzene	ND		0.00200	0.00110	mg/kg wet		02/27/11 10:02	02/27/12 12:06	1.0
Naphthalene	ND		0.00500	0.00250	mg/kg wet		02/27/11 10:02	02/27/12 12:06	1.0
Toluene	ND		0.00200	0.00110	mg/kg wet		02/27/11 10:02	02/27/12 12:06	1.0
Xylenes, total	ND		0.00500	0.00250	mg/kg wet		02/27/11 10:02	02/27/12 12:06	1.0
	Blank	Blank							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4	86		70 - 130				02/27/11 10:02	02/27/12 12:06	1.0
Dibromofluoromethane	90		70 - 130				02/27/11 10:02	02/27/12 12:06	1.00
Toluene-d8	105		70 - 130				02/27/11 10:02	02/27/12 12:06	1.0
4-Bromofluorobenzene	104		70 - 130				02/27/11 10:02	02/27/12 12:06	1.00
Lab Sample ID: 12B7052-BLK2							Client Sa	mple ID: Metho	d Blani
Matrix: Soil								Prep Typ	
Analysis Batch: V003553							F	rep Batch: 12E	
and your Determine Courses	Blank	Blank						rep baton. The	51004_1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	_	0.100	0.0550	mg/kg wet		02/27/11 10:02	02/27/12 12:36	50.0
Ethylbenzene	ND		0.100	0.0550	mg/kg wet		02/27/11 10:02	02/27/12 12:36	50.0
Naphthalene	ND		0.250	0.125	mg/kg wet		02/27/11 10:02	02/27/12 12:36	50.0
Toluene	ND		0.100	0.0550	mg/kg wet		02/27/11 10:02	02/27/12 12:36	50.0
Xylenes, total	ND		0.250	0.125	mg/kg wet		02/27/11 10:02	02/27/12 12:36	50.0
	Blank	Blank							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4	90		70 - 130				02/27/11 10:02	02/27/12 12:36	50.0
Dibromofluoromethane	91		70 - 130				02/27/11 10:02	02/27/12 12:36	50.0
Toluene-d8	107		70 - 130				02/27/11 10:02	02/27/12 12:36	50.0
1-Bromofluorobenzene	105		70 - 130				02/27/11 10:02	02/27/12 12:36	50.0
ab Sample ID: 12B7052-BS1						C	lient Sample II	D: Lab Control	Sample
Matrix: Soil							in sumple i	Prep Typ	
Analysis Batch: V003553							P	rep Batch: 12B	
and all second roodede				LCS LC			-	top buttern reb	. oon_r

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	50.0	47.6		ug/kg		95	75 - 127
Ethylbenzene	50.0	53.5		ug/kg		107	80 - 134
Naphthalene	50.0	48.2		ug/kg		96	69 - 150
Toluene	50.0	52.2		ug/kg		104	80 - 132
Xylenes, total	150	158		ug/kg		105	80 - 137

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4	90	_	70.130
Dibromofluoromethane	95		70-130
Toluene-d8	106		70 - 130
4-Bromofluorobenzene	100		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total

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Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12B7052-MS1 Matrix: Soil								Client S	Sample ID: Matrix Spike Prep Type: Total
Analysis Batch: V003553									Prep Batch: 12B7052_P
	Sample	Sample	Spike	Matrix Spike	Matrix Spike	e			%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	ND		2.32	2.41		mg/kg wet	-	104	31 - 143
Ethylbenzene	ND		2.32	2.98		mg/kg wet		128	23 - 161
Naphthalene	ND		2.32	2.78		mg/kg wet		119	10 - 176
Toluene	ND		2.32	2.91		mg/kg wet		125	30 - 155
Xylenes, total	0.135		6.97	8.67		mg/kg wet		122	25 - 162

Surrogate	Matrix Spike %Recovery	Matrix Spike Qualifier	Limits
1,2-Dichloroethane-d4	81		70 - 130
Dibromofluoromethane	90		70 - 130
Toluene-d8	111		70 - 130
4-Bromofluorobenzene	100		70 - 130

Lab Sample ID: 12B7052-MSD1 Matrix: Soil Analysis Batch: V003553

Analysis Batch: V003553									Prep Batch	: 12B7	
	Sample	Sample	Spike	Aatrix Spike Dup	Matrix Spi	ke Dur			%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		2.32	2.40	-	mg/kg wet		103	31 - 143	0.5	50
Ethylbenzene	ND		2.32	2.97		mg/kg wet		128	23 - 161	0.3	50
Naphthalene	ND		2.32	2.64		mg/kg wet		114	10 - 176	5	50
Toluene	ND		2.32	2.82		mg/kg wet		121	30 - 155	3	50
Xylenes, total	0.135		6.97	8.71		mg/kg wet		123	25 - 162	0.5	50

	Matrix Spike Dup	Matrix Spike Dup				
Surrogate	%Recovery	Qualifier	Limits			
1,2-Dichloroethane-d4	80		70 - 130			
Dibromofluoromethane	89		70 - 130			
Toluene-d8	106		70-130			
4-Bromofluorobenzene	101		70 - 130			

Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D

Lab Sample ID: 12B6382-BLK1 Matrix: Soil								mple ID: Metho Prep Typ	e: Total
Analysis Batch: 12B6382	Diank	Blank					4	Prep Batch: 12E	36382_P
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0340	mg/kg wet		02/27/12 12:30	03/01/12 13:35	1.00
Acenaphthylene	ND		0.0670	0.0340	mg/kg wet		02/27/12 12:30	03/01/12 13:35	1.00
Anthracene	ND		0.0670	0.0340	mg/kg wet		02/27/12 12:30	03/01/12 13:35	1.00
Benzo (a) anthracene	ND		0.0670	0.0340	mg/kg wet		02/27/12 12:30	03/01/12 13:35	1.00
Benzo (a) pyrene	ND		0.0670	0.0340	mg/kg wet		02/27/12 12:30	03/01/12 13:35	1.00
Benzo (b) fluoranthene	ND		0.0670	0.0340	mg/kg wet		02/27/12 12:30	03/01/12 13:35	1.00
Benzo (g,h,i) perylene	ND		0.0670	0.0340	mg/kg wet		02/27/12 12:30	03/01/12 13:35	1.00
Benzo (k) fluoranthene	ND		0.0670	0.0340	mg/kg wet		02/27/12 12:30	03/01/12 13:35	1.00
Chrysene	ND		0.0670	0.0340	mg/kg wet		02/27/12 12:30	03/01/12 13:35	1.00
Dibenz (a,h) anthracene	ND		0.0670	0.0340	mg/kg wet		02/27/12 12:30	03/01/12 13:35	1.00
Fluoranthene	ND		0.0670	0.0340	mg/kg wet		02/27/12 12:30	03/01/12 13:35	1.00
Fluorene	ND		0.0670	0.0340	mg/kg wet		02/27/12 12:30	03/01/12 13:35	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0670	0.0340	mg/kg wet		02/27/12 12:30	03/01/12 13:35	1.00

TestAmerica Nashville 3/7/2012

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1.00

Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D (Continued)

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Lab Sample ID: 12B6382-BLK1							Client Sa	mple ID: Metho	d Blank
Matrix: Soil								Prep Typ	e: Total
Analysis Batch: 12B6382							F	Prep Batch: 12E	36382 P
	Blank	Blank							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0670	0.0340	mg/kg wet		02/27/12 12:30	03/01/12 13:35	1.00
Phenanthrene	ND		0.0670	0.0340	mg/kg wet		02/27/12 12:30	03/01/12 13:35	1.00
Pyrene	ND		0.0670	0.0340	mg/kg wet		02/27/12 12:30	03/01/12 13:35	1.00
1-Methylnaphthalene	ND		0.0670	0.0340	mg/kg wet		02/27/12 12:30	03/01/12 13:35	1.00
2-Methylnaphthalene	ND		0.0670	0.0340	mg/kg wet		02/27/12 12:30	03/01/12 13:35	1.00
	Blank	Blank							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14	89		18 - 120				02/27/12 12:30	03/01/12 13:35	1.00
2-Fluorobiphenyl	68		14 - 120				02/27/12 12:30	03/01/12 13:35	1.00

17 - 120

Lab Sample ID: 12B6382-BS1 Matrix: Soil Analysis Batch: 12B6382

Nitrobenzene-d5

Client Sample ID: Lab Control Sample Prep Type: Total Prep Batch: 12B6382 P

03/01/12 13:35

02/27/12 12:30

Analysis batch. 1200302	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.67	1.26		mg/kg wet		76	36 - 120
Acenaphthylene	1.67	1.12		mg/kg wet		67	38 - 120
Anthracene	1.67	1.39		mg/kg wet		83	46 - 124
Benzo (a) anthracene	1,67	1.51		mg/kg wet		90	45 - 120
Benzo (a) pyrene	1.67	1.53		mg/kg wet		92	45 - 120
Benzo (b) fluoranthene	1.67	1.48		mg/kg wet		89	42 - 120
Benzo (g,h,i) perylene	1.67	1.41		mg/kg wet		85	38 - 120
Benzo (k) fluoranthene	1.67	1.39		mg/kg wet		83	42 - 120
Chrysene	1.67	1.44		mg/kg wet		87	43 - 120
Dibenz (a,h) anthracene	1.67	1.42		mg/kg wet		85	32 - 128
Fluoranthene	1.67	1.41		mg/kg wet		85	46 - 120
Fluorene	1.67	1.20		mg/kg wet		72	42 - 120
Indeno (1.2,3-cd) pyrene	1.67	1.42		mg/kg wet		85	41 - 121
Naphthalene	1.67	1.25		mg/kg wet		75	32 - 120
Phenanthrene	1.67	1.46		mg/kg wet		88	45 - 120
Pyrene	1.67	1.49		mg/kg wet		89	43 - 120
1-Methylnaphthalene	1.67	0.882		mg/kg wet		53	32 - 120
2-Methylnaphthalene	1.67	1.18		mg/kg wet		71	28 - 120

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Terphenyl-d14	83		18 - 120
2-Fluorobiphenyl	60		14 - 120
Nitrobenzene-d5	57		17-120

100 100

Lab Sample ID: 12B6382-MS1 Matrix: Soil Analysis Batch: 12B6382

Prep Batch: 12B6382_P Sample Sample Spike Matrix Spike Matrix Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits ō Acenaphthene ND 1.92 1.35 71 19 - 120 mg/kg dry 0 Acenaphthylene ND 25 - 120 1.92 1.17 mg/kg dry 61 0 ND 1.47 Anthracene 1.92 mg/kg dry 28 - 125 77 ġ, Benzo (a) anthracene 0.0465 1.92 1.58 mg/kg dry 80 23 - 120

Client Sample ID: Matrix Spike

Prep Type: Total

Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D (Continued)

Lab Sample ID: 12B6382-MS1 Matrix: Soil Analysis Batch: 12B6382

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 12B6382_P

	Sample	Sample	Spike	Matrix Spike	Matrix Spi	ke			%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzo (a) pyrene	0.0407		1.92	1.72		mg/kg dry	a	87	15 - 128	
Benzo (b) fluoranthene	0.0423		1.92	1.85		mg/kg dry	12	94	12 - 133	
Benzo (g.h.i) perylene	ND		1.92	1.59		mg/kg dry	12	83	22 - 120	
Benzo (k) fluoranthene	0.0446		1.92	1.67		mg/kg dry	12	85	28 - 120	
Chrysene	0.0457		1.92	1,55		mg/kg dry	(C	78	20 - 120	
Dibenz (a,h) anthracene	ND		1.92	1.62		mg/kg dry	0	84	12 - 128	
Fluoranthene	0,0830		1.92	1.54		mg/kg dry		76	10 - 143	
Fluorene	ND		1.92	1.24		mg/kg dry	ø	65	20 - 120	
Indeno (1,2,3-cd) pyrene	ND		1.92	1.61		mg/kg dry	10	84	22 - 121	
Naphthalene	ND		1.92	1.38		mg/kg dry	¢	72	10 - 120	
Phenanthrene	ND		1.92	1.54		mg/kg dry	Ψ	80	21 - 122	
Pyrene	0.0784		1.92	1.68		mg/kg dry	7	83	20 - 123	
1-Methylnaphthalene	ND		1.92	1.01		mg/kg dry	2	53	10 - 120	
2-Methylnaphthalene	ND		1.92	1.21		mg/kg dry	2	63	13 - 120	
	Matrix Spike	Matrix Spike								
Surrogate	% Pecover	Qualifier	Timite							

Surrogate	%Recovery	Qualifier	Limits
Terphenyl-d14	80		18 - 120
2-Fluorobiphenyl	60		14 - 120
Nitrobenzene-d5	58		17 - 120

Lab Sample ID: 12B6382-MSD1 Matrix: Soil

Analysis Batch: 12B6382

Analyte

Acenaphthene

Acenaphthylene

Benzo (a) pyrene

Benzo (a) anthracene

Anthracene

Client Sample ID: Matrix Spike Duplicate Prep Type: Total Prep Batch: 12B6382 P Spike Matrix Spike Dup Matrix Spike Dup Sample Sample %Rec. Result Qualifier Added Result Qualifier Unit Limits D %Rec RPD mg/kg dry 亞 ND 1.92 1.42 74 19 - 120 5 ND 'n. 1.92 1.18 mg/kg dry 62 25 - 120 1 [7]ND 1.92 1.45 mg/kg dry 76 28 - 125 2 0.0465 1.92 1.64 魚 23 - 120 3 mg/kg dry 83 0.0407 ÷. 15 - 128 1.92 1.67 mg/kg dry 85 3

Benzo (b) fluoranthene	0.0423	1.92	1.77	mg/kg dry	4	90	12 - 133	4	50
Benzo (g.h.i) perylene	ND	1.92	1.45	mg/kg dry	0	76	22 - 120	9	50
Benzo (k) fluoranthene	0.0446	1,92	1.61	mg/kg dry	0	82	28 - 120	4	45
Chrysene	0.0457	1.92	1.58	mg/kg dry	0	80	20 - 120	2	49
Dibenz (a,h) anthracene	ND	1.92	1.48	mg/kg dry	11	77	12 - 128	9	50
Fluoranthene	0.0830	1.92	1.72	mg/kg dry	12	86	10 - 143	11	50
Fluorene	ND	1.92	1.34	mg/kg dry	4	70	20 - 120	8	50
Indeno (1,2,3-cd) pyrene	ND	1.92	1.50	mg/kg dry		78	22 - 121	7	50
Naphthalene	ND	1.92	1.35	mg/kg dry	10	70	10 - 120	3	50
Phenanthrene	ND	1.92	1.66	mg/kg dry	10	87	21-122	8	50
Pyrene	0.0784	1.92	1.82	mg/kg dry	0	91	20 - 123	8	50
1-Methylnaphthalene	ND	1.92	1.03	mg/kg dry	0	54	10 - 120	2	50
2-Methylnaphthalene	ND	1.92	1.27	mg/kg dry	E.	66	13 - 120	5	50

	Matrix Spike Dup	Matrix Spike	Dup
Surrogate	%Recovery	Qualifier	Limits
Terphenyl-d14	76		18 - 120
2-Fluorobiphenyl	59		14 - 120
Nitrobenzene-d5	58		17 - 120

RPD

Limit

50

50

49

50

50

TestAmerica Job ID: NWB3548

Method: SW-846 - General Chemistry Parameters

ate Duplic ult Qualifi			Prep Batch: 12B6	RPD	
ult Qualifi				IN D	
	er Unit	D	RPD	Limit	6
3.1	%		0.1	20	Ì

QC Association Summary

Client: EEG - Small Business Group, Inc. (2449) Project/Site: [none] TestAmerica Job ID: NWB3548

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GCMS Volatiles

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12B7052-BLK1	Method Blank	Total	Soil	SW846 8260B	12B7052_F
12B7052-BLK2	Method Blank	Total	Soil	SW846 8260B	12B7052_P
12B7052-BS1	Lab Control Sample	Total	Soil	SW846 8260B	12B7052_P
12B7052-MS1	Matrix Spike	Total	Soil	SW846 8260B	12B7052_F
12B7052-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8260B	12B7052_F
NWB3548-01	348 Ash	Total	Soil	SW846 8260B	12B7052_P
Analysis Batch: V003	807				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
12B6363-BLK1	Method Blank	Total	Soil	SW846 8260B	12B6363_P
12B6363-BLK2	Method Blank	Total	Soil	SW846 8260B	12B6363_P
12B6363-BS1	Lab Control Sample	Total	Soil	SW846 8260B	12B6363_P
NWB3548-01 - RE1	348 Ash	Total	Soil	SW846 8260B	12B6363_F
NWB3548-02 - RE1	344 Ash-1	Total	Soil	SW846 8260B	12B6363_P
NVVB3548-03 - RE1	344 Ash-2	Total	Soil	SW846 8260B	12B6363_F
NVVB3548-03 - RE2	344 Ash-2	Total	Soil	SW846 8260B	12B6363_P
Prep Batch: 12B6363	P				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
12B6363-BLK1	Method Blank	Total	Soil	EPA 5035	
12B6363-BLK2	Method Blank	Total	Soil	EPA 5035	
12B6363-BS1	Lab Control Sample	Total	Soil	EPA 5035	
NWB3548-01 - RE1	348 Ash	Total	Soil	EPA 5035	
NWB3548-02 - RE1	344 Ash-1	Total	Soll	EPA 5035	
NWB3548-03 - RE1	344 Ash-2	Total	Soil	EPA 5035	
NWB3548-03 - RE2	344 Ash-2	Total	Soil	EPA 5035	
Prep Batch: 12B7052_	P				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12B7052-BLK1	Method Blank	Total	Soil	EPA 5035	
12B7052-BLK2	Method Blank	Total	Soil	EPA 5035	
12B7052-BS1	Lab Control Sample	Total	Soil	EPA 5035	
	Matrix Spike	Total	Soil	EPA 5035	
12B7052-MS1	maan opino				
12B7052-MS1 12B7052-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 5035	

GCMS Semivolatiles

Analysis Batch: 12B6382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12B6382-BLK1	Method Blank	Total	Soil	SW846 8270D	12B6382_P
12B6382-BS1	Lab Control Sample	Total	Soil	SW846 8270D	12B6382_P
12B6382-MS1	Matrix Spike	Total	Soil	SW846 8270D	12B6382_P
12B6382-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8270D	12B6382_P
NWB3548-01	348 Ash	Total	Soil	SW846 8270D	12B6382_P
NWB3548-02	344 Ash-1	Total	Soil	SW846 8270D	12B6382_P
NWB3548-02 - RE1	344 Ash-1	Total	Soil	SW846 8270D	12B6382_P
NWB3548-03	344 Ash-2	Total	Soil	SW846 8270D	12B6382_P
Prep Batch: 12B6382_	P				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12B6382-BLK1	Method Blank	Total	Soil	EPA 3550C	

QC Association Summary

Client: EEG - Small Business Group, Inc. (2449) Project/Site: [none] TestAmerica Job ID: NWB3548

GCMS Semivolatiles (Continued)

Prep Batch:	12B6382_P	(Continued)
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12B6382-BS1	Lab Control Sample	Total	Soil	EPA 3550C	
12B6382-MS1	Matrix Spike	Total	Soil	EPA 3550C	
12B6382-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 3550C	
WB3548-01	348 Ash	Total	Soil	EPA 3550C	
NWB3548-02	344 Ash-1	Total	Soil	EPA 3550C	
NWB3548-02 - RE1	344 Ash-1	Total	Soil	EPA 3550C	
NWB3548-03	344 Ash-2	Total	Soil	EPA 3550C	

Extractions

Analysis Batch: 12B6536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12B6536-DUP1	Duplicate	Total	Soil	SW-846	12B6536_P
NWB3548-01	348 Ash	Total	Soil	SW-846	12B6536_P
NVVB3548-02	344 Ash-1	Total	Soil	SW-846	12B6536_P
NWB3548-03	344 Ash-2	Total	Soil	SW-846	12B6536_P

Prep Batch: 12B6536_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12B6536-DUP1	Duplicate	Total	Soil	% Solids	
NWB3548-01	348 Ash	Total	Soil	% Solids	
NWB3548-02	344 Ash-1	Total	Soil	% Solids	
NWB3548-03	344 Ash-2	Total	Soil	% Solids	

Client Sample ID: 348 Ash

Date Collected: 02/21/12 14:30 Date Received: 02/25/12 08:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.833	12B7052_P	02/21/12 14:30	AAN	TAL NSH
Total	Analysis	SW846 8260B		1.00	V003553	02/27/12 19:09	KKK	TAL NSH
Total	Prep	EPA 5035	RE1	0.831	12B6363_P	02/21/12 14:30	AAN	TAL NSH
Total	Analysis	SW846 8260B	RE1	50,0	V003807	02/28/12 14:01	KKK	TAL NSH
Total	Prep	EPA 3550C		0.994	12B6382_P	02/27/12 12:30	RCH2	TAL NSH
Total	Analysis	SW846 8270D		1.00	12B6382	03/01/12 17:59	BES	TAL NSH
Total	Prep	% Solids		1.00	12B6536_P	02/27/12 12:43	RRS	TAL NSH
Total	Analysis	SW-846		1.00	1286536	02/28/12 09:26	RRS	TAL NSH

Client Sample ID: 344 Ash-1 Date Collected: 02/22/12 13:30 Date Received: 02/25/12 08:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	EPA 5035	RE1	1.12	12B6363_P	02/22/12 13:30	AAN	TAL NSH
Total	Analysis	SW846 8260B	RE1	50.0	V003807	02/28/12 14:31	KKK	TAL NSH
Total	Prep	EPA 3550C		0,973	12B6382_P	02/27/12 12:30	RCH2	TAL NSH
Total	Analysis	SW846 8270D		1.00	12B6382	03/01/12 18:24	BES	TAL NSH
Total	Prep	EPA 3550C	RE1	0.973	12B6382_P	02/27/12 12:30	RCH2	TAL NSH
Total	Analysis	SW846 8270D	RE1	2.00	12B6382	03/02/12 00:00	BES	TAL NSH
Total	Prep	% Solids		1.00	12B6536_P	02/27/12 12:43	RRS	TAL NSH
Total	Analysis	SW-846		1.00	12B6536	02/28/12 09:26	RRS	TAL NSH

Client Sample ID: 344 Ash-2 Date Collected: 02/22/12 14:30 Date Received: 02/25/12 08:30

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	EPA 5035	RE1	0.678	12B6363_P	02/22/12 14:30	AAN	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	V003807	02/28/12 13:01	ККК	TAL NSH
Total	Prep	EPA 5035	RE2	0.879	12B6363_P	02/22/12 14:30	AAN	TAL NSH
Total	Analysis	SW846 8260B	RE2	50.0	V003807	02/28/12 13:31	KKK	TAL NSH
Total	Prep	EPA 3550C		0.994	12B6382_P	02/27/12 12:30	RCH2	TAL NSH
Total	Analysis	SW846 8270D		1.00	12B6382	03/01/12 18:48	BES	TAL NSH
Total	Prep	% Solids		1.00	12B6536_P	02/27/12 12:43	RRS	TAL NSH
Total	Analysis	SW-846		1.00	12B6536	02/28/12 09:26	RRS	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Percent Solids: 79.9

Matrix: Soil

TestAmerica Job ID; NWB3548

Lab Sample ID: NWB3548-01

Lab Sample ID: NWB3548-02

Matrix: Soil Percent Solids: 73.9

Lab Sample ID: NWB3548-03

Matrix: Soil Percent Solids: 83.8

Method	Method Description	Protocol	Laboratory
SW-846	General Chemistry Parameters		TAL NSH
SW846 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL NSH
SW846 8270D	Polyaromatic Hydrocarbons by EPA 8270D		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

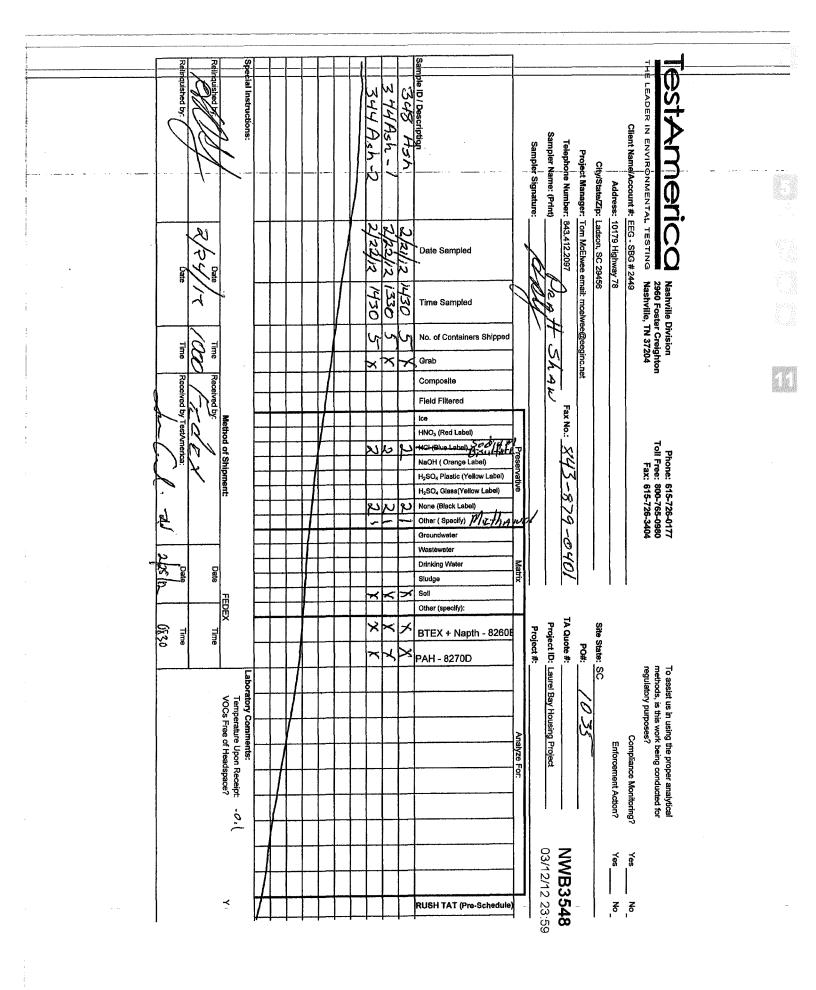
Certification Summary

Client: EEG - Small Business Group, Inc. (2449) Project/Site: [none]

10

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville		ACIL		393
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska (UST)	State Program	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas DEQ	State Program	6	88-0737
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Canadian Assoc Lab Accred (CALA)	Canada		3744
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Kentucky (UST)	State Program	4	19
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA110014
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana (UST)	State Program	8	NA
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina DENR	State Program	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio VAP	State Program	5	CL0033
FestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
FestAmerica Nashville	Rhode Island	State Program	1	LAO00268
FestAmerica Nashville	South Carolina	State Program	4	84009
FestAmerica Nashville	South Carolina	State Program	4	84009
FestAmerica Nashville	Tennessee	State Program	4	2008
FestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
FestAmerica Nashville	USDA	Federal		S-48469
estAmerica Nashville	Utah	NELAC	8	TAN
estAmerica Nashville	Virginia	NELAC Secondary AB	3	460152
estAmerica Nashville	Virginia	State Program	3	00323
estAmerica Nashville	Washington	State Program	10	C789
estAmerica Nashville	West Virginia DEP	State Program	3	219
estAmerica Nashville	Wisconsin	State Program	5	998020430
estAmerica Nashville	Wyoming (UST)	A2LA	8	453.07

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



ATTACHMENT A

UST Certificate of Disposal

CONTRACTOR

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

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

TANK ID & LOCATION

UST 344Ash-1; 344 Ash Street, Laurel Bay Housing Area, MCAS Beaufort, S.C.

DISPOSAL LOCATION

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

TYPE OF TANK SIZE (GAL)

Steel

280

CLEANING/DISPOSAL METHOD

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

DISPOSAL CERTIFICATION

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

<u>T.C. V. Chee</u> 1 3/14/12 (Name) (Date)

	erator's US EPA ID No.	Manifest Doc No.	2. Page 1	of			
NON-HAZARDOUS MANIFEST			:	1			
3. Generator's Mailing Address:	Generator's Site Address	(If different than mailing):	A. Manife	est Number			
MCAS, BEAUFORT			N	/MNA	00310	6824	
LAUREL BAY HOUSING				B. State	Generator's	s ID	
BEAUFORT, SC 29907							
4. Generator's Phone 843-228-6461 5. Transporter 1 Company Name		A ID Number			-	-	
5. Transporter 1 Company Name	0. U3 EP	A ID Number	C. State T	ransporter's I	D		
EEG, INC.				orter's Phone		879-041	11
7. Transporter 2 Company Name	8. US EP	A ID Number			Gent Her		
			E. State T	ransporter's ll	D		
			F. Transp	orter's Phone			1
9. Designated Facility Name and Site Address	10. US E	PA ID Number				12200	
HICKORY HILL LANDFILL			G. State F				
2621 LOW COUNTRY ROAD			H. State F	acility Phone	843-9	987-464	43
RIDGELAND, SC 29936							
11 Description of Weste Meterials	Cat Provider Strict	12. Containers	13. Total	14. Unit	1	Aisc. Comme	ante
11. Description of Waste Materials		No. Туре	Quantity	Wt./Vol.	1. N	nst. comme	ents
. HEATING OIL TANKS FILLED WITH SA	AND				C C C		
	265566			Text and a	Pro Anne	-	-
	2655SC	CONTRACT PORCE	and a state	A.C		-1) A. 100	
).					1000		
WM Profile #			1. E. W			- 1-2	
WM Profile #			1000		1.26.2916	1000	
I.							
			1.11				
WM Profile #			1119 2			100 000	-
Additional Descriptions for Materials Listed	Above	K. Disposal Location					
		Cell			Level		
	1	Grid		a l	- 1		_
5. Special Handling Instructions and Additiona	Information 2) 351F	sh-1 4)	344	Ash	-21		
1) 372 Aspe,	2-11 3) 353	Msh-1r					
urchase Order #	EMERGENCY	CONTACT / PHONE NO.:					
6. GENERATOR'S CERTIFICATE:							
hereby certify that the above-described materi					ive been ful	lly and	
ccurately described, classified and packaged ar	d are in proper condition for trans		olicable regul	ations.	Month	Day	1
limathy 4/1	HARY SIGNATURE ON DE	Semilty	Ulla	ler,	22	29	
7. Transporter 1 Acknowledgement of Receipt	of Materials	P		1			
Printed Name	Signature	010		1	Month	Day	
JAMES BALDWIN	James	Baldun		V	3	1	
8. Transporter 2 Acknowledgement of Receipt	of Materials						_
Printed Name	Signature				Month	Day	-
9. Certificate of Final Treatment/Disposal							
certify, on behalf of the above listed treatment pplicable laws, regulations, permits and license		wledge, the above-describ	ed waste wa	as managed in	o complianc	e with all	1
 Facility Owner or Operator: Certification of 		covered by this manifest					
Printed Name	Signature	teres by this mannest	11		Month	Day	TY
			1.				1
10101 COTIELO	10	ru ti is	11		2	1	1/

Appendix C Laboratory Analytical Report - Groundwater



Volatile	Organic	Compounds	by	GC/MS
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Client: AECOM - Resolut							Laboratory ID		007		
Description: BEALB344TW01V	VG20150601						Matrix:	Aqueous			
Date Sampled:06/01/2015 1540											
Date Received: 06/03/2015											
RunPrep Method15030B	Analytical Metho 8260			sis Date Analyst 015 1254 EH1	Prep	Date	Batch 76528				
Parameter		Nu	CAS mber	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	0.64	J	5.0	0.51	0.17	ug/L	1
Naphthalene		91	-20-3	8260B	4.9	J	5.0	0.96	0.32	ug/L	1
Toluene		108	-88-3	8260B	0.48	U	5.0	0.48	0.16	ug/L	1
Xylenes (total)		1330	-20-7	8260B	1.4	J	5.0	0.57	0.19	ug/L	1
Surrogate	Q %	Run 1 % Recovery	Accepta Limit								
Bromofluorobenzene		105	75-12	20							
1,2-Dichloroethane-d4		97	70-12	20							
Toluene-d8		97	85-12	20							
Dibromofluoromethane		103	85-11	15							

PQL = Practical quantitation limitB = Detected in the method blankE = Quantitation of compound exceeded the calibration rangeH = Out of holding timeQ = Surrogate failureND = Not detected at or above the MDLJ = Estimated result < PQL and \geq MDLP = The RPD between two GC columns exceeds 40%N = Recovery is out of criteriaL = LCS/LCSD failureWhere applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"S = MS/MSD failure

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

Level 1 Report v2.1

Client: AECOM - Resolution Consultants

Description: BEALB344TW01WG20150601

Laboratory ID: QF02019-007

Date Sampled:06/01/2015 1540

Matrix: Aqueous

Date Received: 06/03/2015

RunPrep Method13520C	Analytical Method Dil 8270D (SIM)		v sis Date Analys 2015 1338 RBH			Batch 40 76658		
Parameter		CAS Number	Analytical 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	Rui Q % Rec							
2-Methylnaphthalene-d10	6	9 15-1	39					
Fluoranthene-d10	7	6 23-1	54					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time Q = Surrogate failure ND = Not detected at or above the MDL $J = Estimated result < PQL and \ge MDL$ $\mathsf{P}=\mathsf{The}\;\mathsf{RPD}\;\mathsf{between}\;\mathsf{two}\;\mathsf{GC}\;\mathsf{columns}\;\mathsf{exceeds}\;40\%$ N = Recovery is out of criteria 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

Level 1 Report v2.1

Appendix D Regulatory Correspondence



DHEC

PROMOTE PROTECT PROSPER Catherine B. Templeton, Director

May 15, 2014

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

RE: 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 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)

A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR A CONTRAC

DHEC

PROMOLE PROTECT PROSPER

Catherine B. Templeton, Director

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

Laurel Bay Underground Storage Tank Assessment Reports for: (121 addresses/139 tanks)

137 Laurel Bay Tank 2	387 Acorn
139 Laurel Bay	392 Acorn Tank 2
229 Cypress Tank 2 ·	396 Acorn Tank 1
261 Beech Tank 1 •	396 Acorn Tank 2
261 Beech Tank 3	430 Elderberry
273 Birch Tank 1 🔹	433 Elderberry
273 Birch Tank 2	439 Elderberry
273 Birch Tank 3	440 Elderberry
276 Birch Tank 2 ·	442 Elderberry
278 Birch Tank 2	443 Elderberry
291 Birch Tank 2	444 Elderberry Tank 1
300 Ash -	445 Elderberry
304 Ash •	446 Elderberry
314 Ash Tank 1	448 Elderberry
314 Ash Tank 2	449 Elderberry
322 Ash Tank 2 *	451 Elderberry
323 Ash *	453 Elderberry
324 Ash *	456 Elderberry Tank 1
325 Ash Tank 1 -	456 Elderberry Tank 2
325 Ash Tank 2	458 Elderberry Tank 1
326 Ash -	458 Elderberry Tank 3
336 Ash •	464 Dogwood
339 Ash •	466 Dogwood
343 Ash Tank 1 *	467 Dogwood
344 Ash Tank 1	468 Dogwood
348 Ash *	469 Dogwood
349 Ash Tank 1	471 Dogwood Tank 2
353 Ash Tank 1	471 Dogwood Tank 3
362 Aspen	475 Dogwood Tank 1
376 Aspen *	475 Dogwood Tank 2
380 Aspen	516 Laurel Bay Tank 1 (UST#03747)
383 Aspen Tank 2 ¹	518 Laurel Bay

2600 Bull Street * Columbia, SC23201 * Phone; (803) SDS 34.52 * www.sedhee.gow

Laurel Bay Underground Storage Tank Assessment Reports for: (121 addresses/139 tanks) cont.

531 Laurel Bay	1219 Cardinal	
532 Laurel Bay	1272 Albatross	
635 Dahlia Tank 2	1305 Eagle	
638 Dahlia	1353 Cardinal	
640 Dahlia Tank 1	1356 Cardinal	
640 Dahlia Tank 2	1357 Cardinal	
645 Dahlia	1359 Cardinal	
647 Dahlia	1360 Cardinal	
648 Dahlia Tank 2	1361 Cardinal	
650 Dahlia Tank 1	1368 Cardinal	
650 Dahlia Tank 2	1370 Cardinal Tank 1	
652 Dahlia Tank 1	1377 Dove	
652 Dahlia Tank 2	1381 Dove	
760 Althea	1382 Dove	
763 Althea	1384 Dove	
771 Althea	1385 Dove	
927 Albacore	1389 Dove	
1015 Foxglove	1391 Dove	
1046 Gardenia	1392 Dove	
1062 Gardenia Tank 2	1393 Dove Tank 1	
1070 Heather	1393 Dove Tank 2	
1072 Heather	1406 Eagle	
1102 Iris Tank 1	1407 Eagle Tank 1	
1107 Iris	1411 Eagle Tank 1	
1126 Iris	1411 Eagle Tank 2	
1129 Iris	1412 Eagle	
1132 Iris	1413 Albatross	
1133 Iris Tank 1	1414 Albatross	
1138 Iris	1422 Albatross	
1144 Iris Tank 1	1425 Albatross	
1144 Iris Tank 2	1426 Albatross	
1148 Iris Tank 1	1432 Dove	
1148 Iris Tank 2	1434 Dove	
1161 Jasmine	1436 Dove	
1167 Jasmine	1438 Dove Tank 1	
1170 Jasmine	1440 Dove	
1190 Bobwhite	1442 Dove Tank 1	
1192 Bobwhite		



Catherine E. Heigel, Director Promoting and protecting the health of the public and the environment

July 1, 2015

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

RE: 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 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 <u>et seq.</u>, 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,

that M. They

Kent Krieg Department of Defense Corrective Action Section Bureau of Land and Waste Management South Carolina Department of Health and Environmental Control

Cc: Russell Berry (via email) Craig Ehde (via email) Bryan Beck (via email)



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

Attachment to:

Krieg to Drawdy Subject: IGWA Dated 7/1/2015

Laurel Bay Underground Storage Tank Assessment Reports for: (97 addresses/110 tanks)

118 Banyan	343 Ash Tank 2
126 Banyan	344 Ash Tank 2
127 Banyan	347 Ash Tank 2
130 Banyan Tank 1	378 Aspen Tank 2
141 Laurel Bay	379 Aspen
151 Laurel Bay	382 Aspen Tank 1
224 Cypress	382 Aspen Tank 2
227 Cypress	394 Acorn Tank 2
256 Beech Tank 2	400 Elderberry
257 Beech Tank 1	432 Elderberry
257 Beech Tank 2	436 Elderberry
264 Beech	473 Dogwood Tank 2
265 Beech Tank 2	482 Laurel Bay
265 Beech Tank 3	517 Laurel Bay
275 Birch	586 Aster
277 Birch Tank 1	632 Dahlia
285 Birch	639 Dahlia Tank 2
292 Birch Tank 3	643 Dahlia Tank 1
297 Birch	644 Dahlia Tank 1
301 Ash	644 Dahlia Tank 2
306 Ash	646 Dahlia Tank 1
310 Ash Tank 1	646 Dahlia Tank 2
313 Ash	665 Camellia
315 Ash Tank 2	699 Abelia
316 Ash	744 Blue Bell
319 Ash	745 Blue Bell Tank 1
320 Ash	747 Blue Bell Tank 1
321 Ash	747 Blue Bell Tank 2
329 Ash	747 Blue Bell Tank 3
330 Ash Tank 2	749 Blue Bell Tank 1
331 Ash	749 Blue Bell Tank 2
332 Ash	751 Blue Bell
333 Ash	762 Althea
335 Ash Tank 1	765 Althea Tank 2
335 Ash Tank 2	766 Althea Tank 4
341 Ash	767 Althea Tank 1
342 Ash Tank 1	768 Althea Tank 2
342 Ash Tank 2	768 Althea Tank 3

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL 2600 Bull Street • Columbia, SC 29201 • Phone: (803) 898-3432 • www.scdhec.gov Laurel Bay Underground Storage Tank Assessment Reports for: (98 addresses/110 tanks) cont.

768 Althea Tank 4	1067 Gardenia
769 Althea Tank 1	1077 Heather
769 Althea Tank 2	1081 Heather
775 Althea	1101 Iris Tank 2
819 Azalea	1104 Iris
840 Azalea	1105 Iris Tank 2
878 Cobia	1124 Iris Tank 2
891 Cobia	1142 Iris Tank 2
913 Barracuda	1146 Iris Tank 2
916 Barracuda	1218 Cardinal
923 Albacore	1240 Dove
1004 Bobwhite	1266 Dove
1022 Foxglove	1292 Eagle
1031 Foxglove	1299 Eagle Tank 1
1034 Foxglove Tank 2	1302 Eagle
1061 Gardenia Tank 3	1336 Albatross
1064 Gardenia	1351 Cardinal



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,

LINT

Laurel Petrus 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	
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	24-te
383 Aspen Street	1361 Cardinal Lane	
387 Acorn Drive	1364 Cardinal Lane	
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	
453 Elderberry Drive	1414 Albatross Drive	
464 Dogwood Drive	1417 Albatross Drive	
466 Dogwood Drive	1421 Albatross Drive	
467 Dogwood Drive	1422 Albatross Drive	100
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