SUMMARY REPORT 335 AZALEA DRIVE (FORMERLY 824 AZALEA DRIVE) LAUREL BAY MILITARY HOUSING AREA MARINE CORPS AIR STATION BEAUFORT BEAUFORT, SC

> Revision: 0 Prepared for:

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

and



Naval Facilities Engineering Command Atlantic 9324 Virginia Avenue Norfolk, Virginia 23511-3095 SUMMARY REPORT
335 AZALEA DRIVE (FORMERLY 824 AZALEA DRIVE)
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Prepared by:



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

Contract Number: N62470-14-D-9016

CTO WE52

JUNE 2021



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List of Acronyms

bgs below ground surface

BTEX benzene, toluene, ethylbenzene, and xylenes

CTO Contract Task Order

COPC constituents of potential concern

IDIQ Indefinite Delivery, Indefinite Quantity

IGWA Initial Groundwater Assessment

JV Joint Venture

LBMH Laurel Bay Military Housing MCAS Marine Corps Air Station

NAVFAC Mid-Lant Naval Facilities Engineering Command Mid-Atlantic

NFA No Further Action

PAH polynuclear aromatic hydrocarbon

QAPP Quality Assurance Program Plan

RBSL risk-based screening level

SCDHEC South Carolina Department of Health and Environmental Control

Site LBMH area at MCAS Beaufort, South Carolina

UST underground storage tank

VISL vapor intrusion screening level



1.0 INTRODUCTION

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

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

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 335 Azalea Drive (Formerly 824 Azalea Drive). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

1.1 Background Information

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





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

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

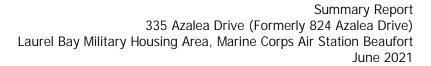
In 2007, MCAS Beaufort began a voluntary program to remove the unregulated, residential USTs and conduct sampling activities to determine if, and to what extent, petroleum constituents may have impacted the surrounding environment. MCAS Beaufort coordinated with SCDHEC to develop removal procedures that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

1.2 UST Removal and Assessment Process

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

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

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





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

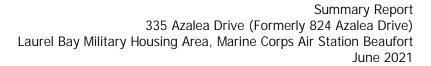
The results of the soil sampling at each former UST location were used to determine if a potential for groundwater contamination exists (i.e., soil results greater than RBSLs) and subsequently to select properties for follow-up initial groundwater assessment (IGWA) sampling. The results of the IGWA sampling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

2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 335 Azalea Drive (Formerly 824 Azalea Drive). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 824 Azalea Drive* (MCAS Beaufort, 2011). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On November 2, 2010, a single 280 gallon heating oil UST was removed from the front yard adjacent to the driveway area at 335 Azalea Drive (Formerly 824 Azalea Drive). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 5'8" bgs and a single soil sample was collected from that depth. The





sample was collected from the fill port side of the former UST to represent a worst case scenario.

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

2.2 Soil Analytical Results

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

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 335 Azalea Drive (Formerly 824 Azalea Drive) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 335 Azalea Drive (Formerly 824 Azalea Drive). This NFA determination was obtained in a letter dated July 7, 2011. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2011. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 824 Azalea Drive, Laurel Bay Military Housing Area, February 2011.

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





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

Table



Table 1

Laboratory Analytical Results - Soil 335 Azalea Drive (Formerly 824 Azalea Drive)

Laurel Bay Military Housing Area Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	SCDHEC RBSLs (1)	Results Sample Collected 11/02/10					
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)							
Benzene	0.003	ND					
Ethylbenzene	1.15	ND					
Naphthalene	0.036	ND					
Toluene	0.627	ND					
Xylenes, Total	13.01	ND					
Semivolatile Organic Compounds Ana	llyzed by EPA Method 8270D (mg/kg)						
Benzo(a)anthracene	0.66	ND					
Benzo(b)fluoranthene	0.66	ND					
Benzo(k)fluoranthene	0.66	ND					
Chrysene	0.66	ND					
Dibenz(a,h)anthracene	0.66	ND					

Notes:

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - milligram per kilogram

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

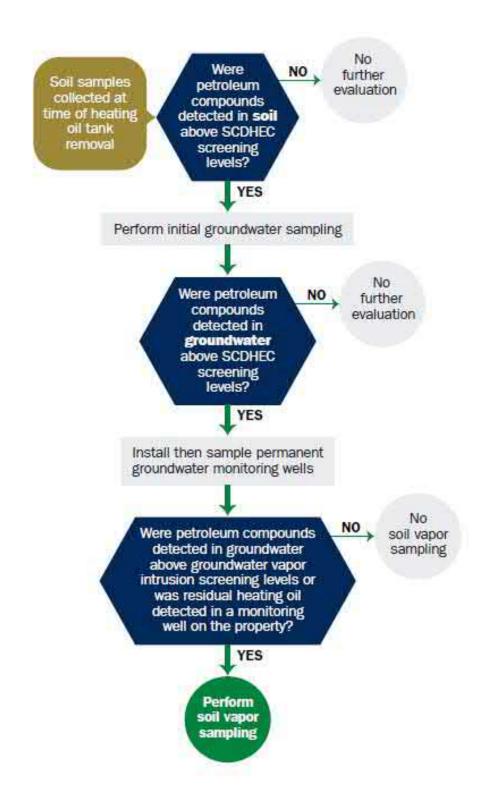
RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

⁽¹⁾ South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 1.0 and 1.1 (SCDHEC, May 2001 and SCDHEC, February 2011) and the Underground Storage Tank Assessment Guidelines (SCDHEC, February 2006).

Appendix A Multi-Media Selection Process for LBMH





Appendix A - Multi-Media Selection Process for LBMH

Appendix B UST Assessment Report



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



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

I. OWNERSHIP OF UST (S)

MCAS Beaufort, Commanding Officer Attn: NREAO (Craig Ehde) Owner Name (Corporation, Individual, Public Agency, Other)							
P.O. Box 55001 Mailing Address							
Beaufort,	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. #						
	sing Area, Marine Corps Air Station, Beaufort, SC					
Facility Name or Company Site Ident	tifier					
	l Bay Military Housing Area					
Street Address or State Road (as applicable)						
	Description of the second of t					
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)
V. CERTIFICATION (To be signed by the UST owner) I certify that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible for obtaining this
V. CERTIFICATION (To be signed by the UST owner) I certify that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.
V. CERTIFICATION (To be signed by the UST owner) I certify that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete. Name (Type or print.)
V. CERTIFICATION (To be signed by the UST owner) I certify that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete. Name (Type or print.) Signature
V. CERTIFICATION (To be signed by the UST owner) I certify that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete. Name (Type or print.) Signature To be completed by Notary Public:

,	VI. UST INFORMATION	4
	VI. UST INFORMATION	824Azalea
Pτ	roduct(ex. Gas, Kerosene)	Heating oil
	Capacity(ex. 1k, 2k)	280 gal
A	ge	Late 1950s
Co	onstruction Material(ex. Steel, FRP)	Steel
M	Ionth/Year of Last Use	Mid 1980s
	epth (ft.) To Base of Tank	5'8"
Sŗ	pill Prevention Equipment Y/N	No
O,	verfill Prevention Equipment Y/N	No
M	lethod of Closure Removed/Filled	Removed
D	ate Tanks Removed/Filled	11/2/10
Vi	isible Corrosion or Pitting Y/N	Yes
Vi	isible Holes Y/N	Yes
	lethod of disposal for any USTs removed from the UST 824Azalea was removed from the	· · · · · · · · · · · · · · · · · · ·
	Subtitle "D" landfill. See Attachm	"

VII. PIPING INFORMATION

	824Azalea
	Steel
Construction Material(ex. Steel, FRP)	& Copper
Distance from UST to Dispenser	N/A
Number of Dispensers	N/A
Type of System Pressure or Suction	Suction
as Piping Removed from the Ground? Y/N	Yes
Visible Corrosion or Pitting Y/N	Yes
/isible Holes Y/N	No
Age	Late 1950s
If any corrosion, pitting, or holes were observed,	describe the location and extent for each piping run.
Corrosion and pitting were found	d on the surface of the steel vent
pipe. Copper supply and return I	lines were sound
	Tilles well sound.
VIII. BRIEF SITE DESCR	
VIII. BRIEF SITE DESCR	RIPTION AND HISTORY
The USTs at the residences are can and formerly contained fuel oil	RIPTION AND HISTORY onstructed of single wall steel for heating. These USTs were
The USTs at the residences are c	RIPTION AND HISTORY onstructed of single wall steel for heating. These USTs were
The USTs at the residences are cand formerly contained fuel oil	RIPTION AND HISTORY onstructed of single wall steel for heating. These USTs were
The USTs at the residences are contained fuel oil	RIPTION AND HISTORY onstructed of single wall steel for heating. These USTs were
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The USTs at the residences are contained fuel oil	RIPTION AND HISTORY onstructed of single wall steel for heating. These USTs were

IX. SITE CONDITIONS

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

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009001

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA#
824 Azalea	Excav at fill end	Soil	Sandy	5'8"	11/2/10 1515 hrs	P. Shaw	
			1				
					-		
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.

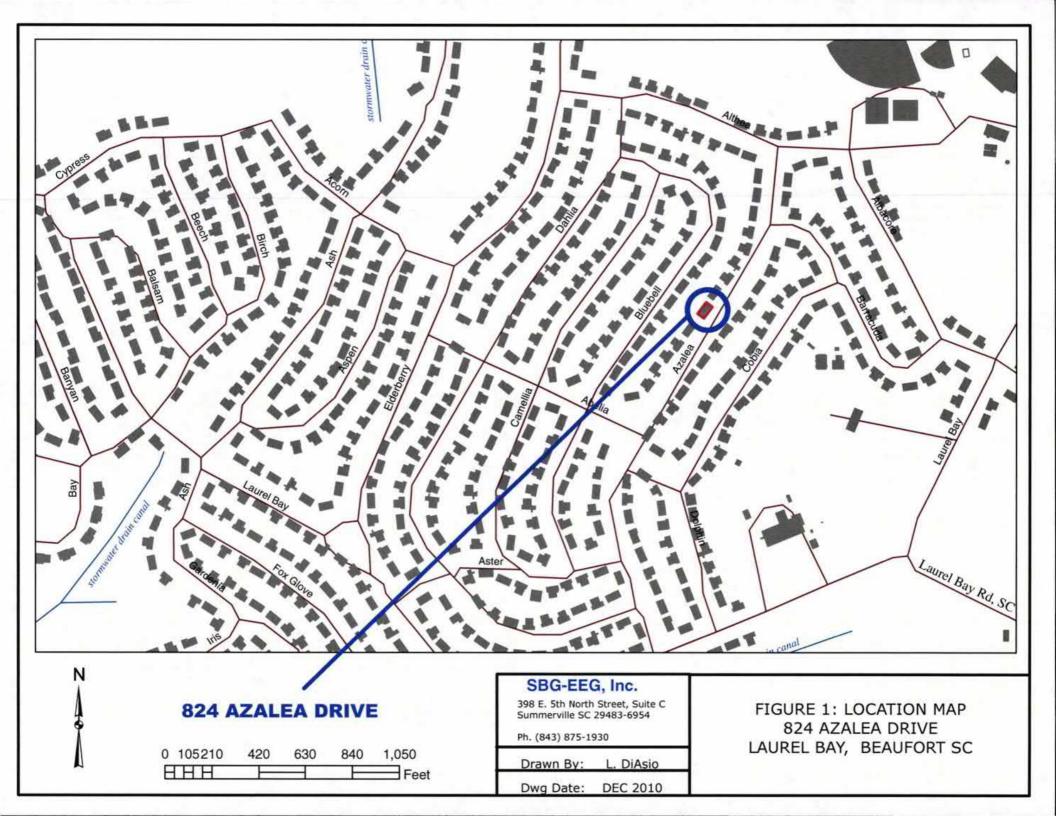
XII. RECEPTORS

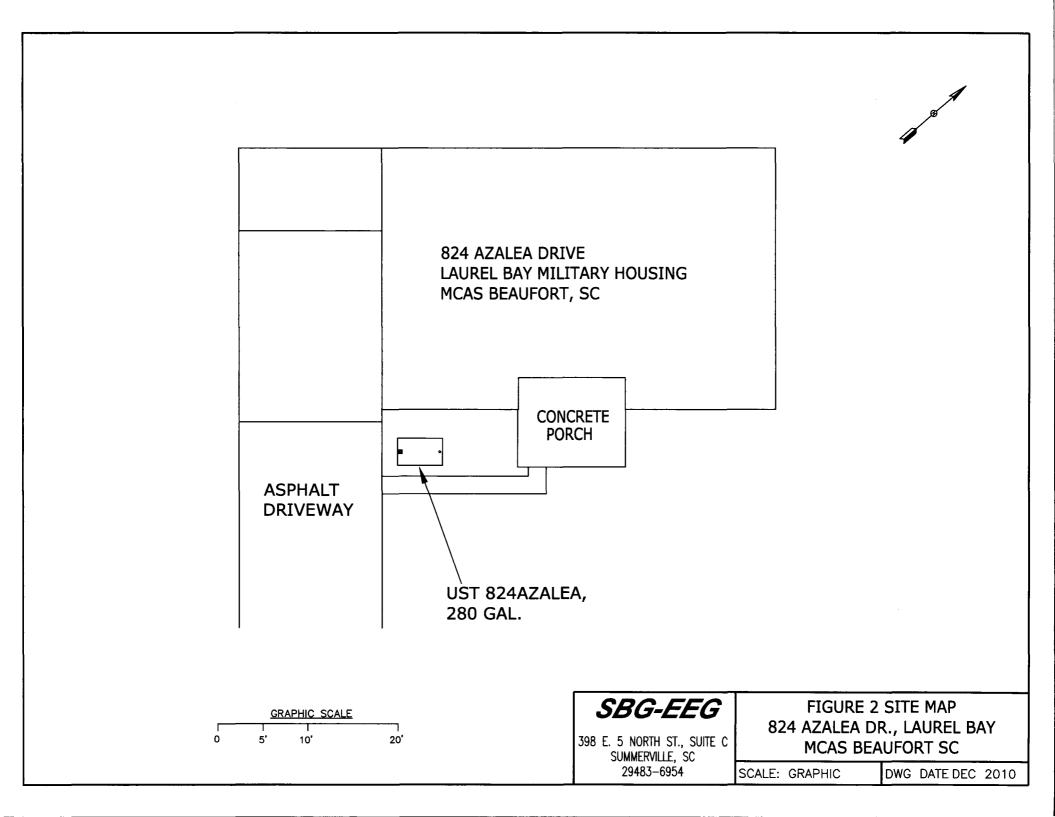
		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?		Х
	If yes, indicate type of receptor, distance, and direction on site map.		
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		Х
	If yes, indicate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

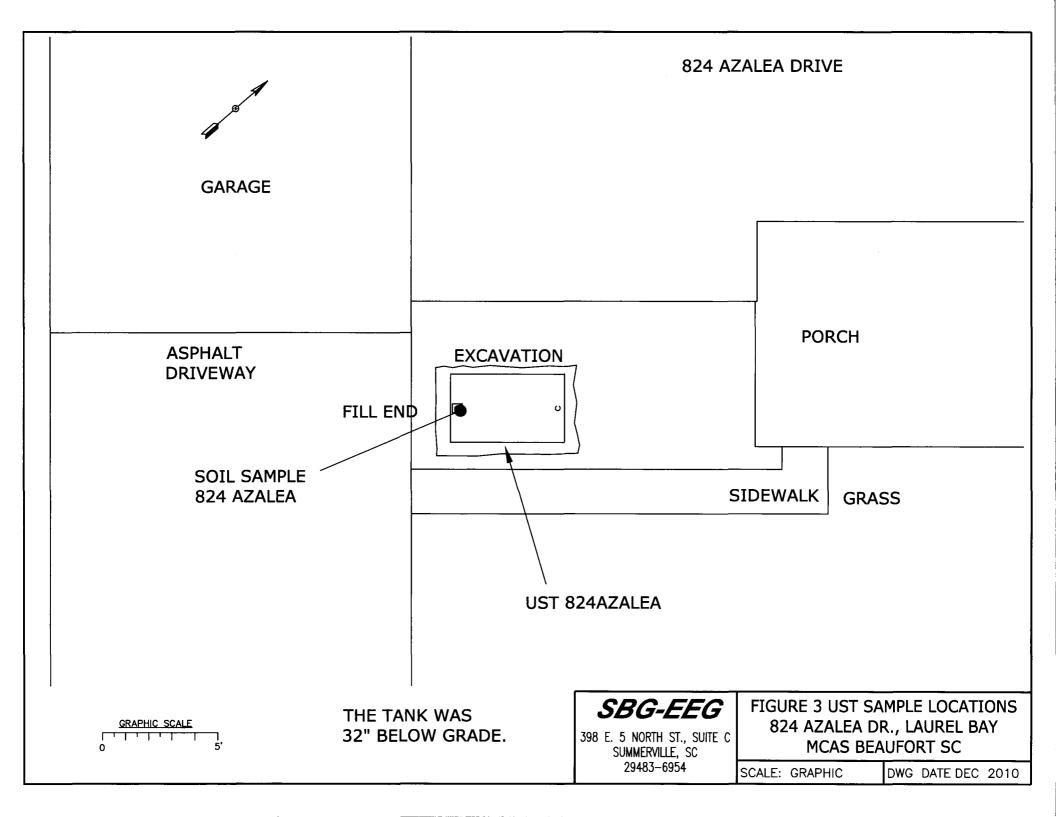
XIII. SITE MAP

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

(Attach Site Map Here)









Picture 1: Location of UST 824Althea.



Picture 2: UST 824Azalea excavation.

XIV. SUMMARY OF ANALYSIS RESULTS

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

CoC UST	824Azalea				
Benzene	ND				
Toluene	ND		-		
Ethylbenzene	ND				
Xylenes	ND			_	
Naphthalene	ND				
Benzo (a) anthracene	ND				
Benzo (b) fluoranthene	ND				
Benzo (k) fluoranthene	ND				
Chrysene	ND				
Dibenz (a, h) anthracene	ND				
TPH (EPA 3550)					
СоС					
Benzene					
Toluene		 			
Ethylbenzene					
Xylenes					
Naphthalene					
Benzo (a) anthracene					
Benzo (b) fluoranthene					
Benzo (k) fluoranthene					
Chrysene					
Dibenz (a, h) anthracene					
TPH (EPA 3550)					

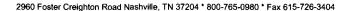
SUMMARY OF ANALYSIS RESULTS (cont'd)
Enter the ground water analytical data for each sample for all CoC in the table below. If free product is present, indicate the measured thickness to the nearest 0.01 feet.

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

XV. ANALYTICAL RESULTS

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

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





November 18, 2010

1:17:11PM

Client:

EEG - Small Business Group, Inc. (2449)

10179 Highway 78

Ladson, SC 29456

Attn:

Tom McElwee

Work Order:

NTK0932

Project Name:

Laurel Bay Housing Project

Project Nbr: P/O Nbr:

[none] 1005

Date Received: 11

11/06/10

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
829 Azalea	NTK0932-01	11/01/10 10:45
827 Azalea	NTK0932-02	11/01/10 15:45
833 Azalea	NTK0932-03	11/02/10 10:45
824 Azalea	NTK0932-04	11/02/10 15:15
826 Azalea	NTK0932-05	11/03/10 10:45
839 Azalea	NTK0932-06	11/03/10 15:15
830 Azalea	NTK0932-07	11/04/10 10:30
843 Azalea	NTK0932-08	11/04/10 15:30

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

South Carolina Certification Number: 84009

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.

Estimated uncertainty is available upon request.

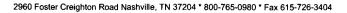
This report has been electronically signed.

Lemos a Hage

Report Approved By:

Ken A. Hayes

Senior Project Manager





10179 Highway 78 Ladson, SC 29456

Tom McElwee

Attn

Work Order:

NTK0932

11/06/10 08:30

Project Name:

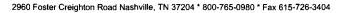
Laurel Bay Housing Project

Project Number:

[none]

Received:

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NTK0932-01 (829 A		Ĭ	11/01/10 1	0·45						
General Chemistry Parameters	zaica - 3011) 32	mpieu:	11/01/10 1	U.43						
% Dry Solids	94.9		%	0.500	0.500	1	11/11/10 08:35	SW-846	HLB	10K2045
Volatile Organic Compounds by EPA	A Method 8260E	}								
Benzene	ND		mg/kg dry	0.00124	0.00225	1	11/12/10 19:10	SW846 8260B	MJH/H	10K2696
Ethylbenzene	ND		mg/kg dry	0.00110	0.00225	1	11/12/10 19:10	SW846 8260B	MJH/H	10K2696
Naphthalene	0.00254	J	mg/kg dry	0.00191	0.00562	1	11/12/10 19:10	SW846 8260B	MJH/H	10K2696
Toluene	ND		mg/kg dry	0.00100	0.00225	1	11/12/10 19:10	SW846 8260B	MJH/H	10K2696
Xylenes, total	ND		mg/kg dry	0.00213	0.00562	1	11/12/10 19:10	SW846 8260B	MJH/H	10K2696
Surr: 1,2-Dichloroethane-d4 (67-138%)	120 %					1	11/12/10 19:10	SW846 8260B	MJH/H	10K269
Surr: Dibromofluoromethane (75-125%)	90 %					1	11/12/10 19:10	SW846 8260B	MJH/H	10K269
Surr: Toluene-d8 (76-129%)	89 %					1	11/12/10 19:10	SW846 8260B	MJH/H	10K269
Surr: 4-Bromofluorobenzene (67-147%)	102 %					1	11/12/10 19:10	SW846 8260B	MJH/H	10K269
Polyaromatic Hydrocarbons by EPA	8270D									
Acenaphthene	ND		mg/kg dry	0.0146	0.0699	1	11/11/10 01:26	SW846 8270D	BES	10K1764
Acenaphthylene	ND		mg/kg dry	0.0209	0.0699	1	11/11/10 01:26	SW846 8270D	BES	10K1764
Anthracene	ND		mg/kg dry	0.00939	0.0699	1	11/11/10 01:26	SW846 8270D	BES	10K1764
Benzo (a) anthracene	ND		mg/kg dry	0.0115	0.0699	1	11/11/10 01:26	SW846 8270D	BES	10K1764
Benzo (a) pyrene	ND		mg/kg dry	0.00834	0.0699	1	11/11/10 01:26	SW846 8270D	BES	10K1764
Benzo (b) fluoranthene	ND		mg/kg dry	0.0396	0.0699	1	11/11/10 01:26	SW846 8270D	BES	10K1764
Benzo (g,h,i) perylene	ND		mg/kg dry	0.00939	0.0699	1	11/11/10 01:26	SW846 8270D	BES	10K1764
Benzo (k) fluoranthene	ND		mg/kg dry	0.0386	0.0699	1	11/11/10 01:26	SW846 8270D	BES	10K1764
Chrysene	ND		mg/kg dry	0.0323	0.0699	1	11/11/10 01:26	SW846 8270D	BES	10K1764
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0156	0.0699	1	11/11/10 01:26	SW846 8270D	BES	10K1764
Fluoranthene	ND		mg/kg dry	0.0115	0.0699	1	11/11/10 01:26	SW846 8270D	BES	10K1764
Fluorene	ND		mg/kg dry	0.0209	0.0699	1	11/11/10 01:26	SW846 8270D	BES	10K1764
Indeno (1,2,3-ed) pyrene	ND		mg/kg dry	0.0323	0.0699	1	11/11/10 01:26	SW846 8270D	BES	10K1764
Naphthalene	ND		mg/kg dry	0.0146	0.0699	1	11/11/10 01:26	SW846 8270D	BES	10K1764
Phenanthrene	ND		mg/kg dry	0.0104	0.0699	1	11/11/10 01:26	SW846 8270D	BES	10K1764
Pyrene	ND		mg/kg dry	0.0240	0.0699	1	11/11/10 01:26	SW846 8270D	BES	10K1764
I-Methylnaphthalene	ND		mg/kg dry	0.0125	0.0699	1	11/11/10 01:26	SW846 8270D	BES	10K1764
2-Methylnaphthalene	ND		mg/kg dry	0.0219	0.0699	1	11/11/10 01:26	SW846 8270D	BES	10K1764
Surr: Terphenyl-d14 (18-120%)	48 %					1	11/11/10 01:26	SW846 8270D	BES	10K176-
Surr: 2-Fluorobiphenyl (14-120%)	44 %					1	11/11/10 01:26	SW846 8270D	BES	10K176-
Surr: Nitrobenzene-d5 (17-120%)	47 %					1	11/11/10 01:26	SW846 8270D	BES	10K176





10179 Highway 78

Ladson, SC 29456 Tom McElwee

Attn

Work Order:

NTK0932

Project Name:

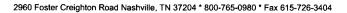
Laurel Bay Housing Project

Project Number:

[none]

Received: 11/06/10 08:30

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
•		_						Method	rinaryst	Daten
Sample ID: NTK0932-02 (827 Az General Chemistry Parameters	zalea - Soil) Sa	mpled:	11/01/10 1	5:45						
% Dry Solids	92.0		%	0.500	0.500	1	11/11/10 08:35	SW-846	HLB	10K2045
Volatile Organic Compounds by EPA	A Method 8260E	}								
Benzene	ND		mg/kg dry	0.00131	0.00239	1	11/12/10 19:39	SW846 8260B	MJH/H	10K2696
Ethylbenzene	ND		mg/kg dry	0.00117	0.00239	1	11/12/10 19:39	SW846 8260B	MJH/H	10K2696
Naphthalene	ND		mg/kg dry	0.00203	0.00597	1	11/12/10 19:39	SW846 8260B	MJH/H	10K2696
Toluene	ND		mg/kg dry	0.00106	0.00239	1	11/12/10 19:39	SW846 8260B	MJH/H	10K2696
Xylenes, total	ND		mg/kg dry	0.00227	0.00597	1	11/12/10 19:39	SW846 8260B	MJH/H	10K2696
Surr: 1,2-Dichloroethane-d4 (67-138%)	120 %					1	11/12/10 19:39	SW846 8260B	MJH/H	10K2696
Surr: Dibromofluoromethane (75-125%)	97 %					1	11/12/10 19:39	SW846 8260B	MJH/H	10K2696
Surr: Toluene-d8 (76-129%)	92 %					1	11/12/10 19:39	SW846 8260B	MJH/H	10K2696
Surr: 4-Bromofluorobenzene (67-147%)	99 %					1	11/12/10 19:39	SW846 8260B	MJH/H	10K2696
Polyaromatic Hydrocarbons by EPA	8270D									
Acenaphthene	ND		mg/kg dry	0.0149	0.0712	1	11/11/10 01:48	SW846 8270D	BES	10K1764
Acenaphthylene	ND		mg/kg dry	0.0212	0.0712	1	11/11/10 01:48	SW846 8270D	BES	10K1764
Anthracene	ND		mg/kg dry	0.00956	0.0712	1	11/11/10 01:48	SW846 8270D	BES	10K1764
Benzo (a) anthracene	ND		mg/kg dry	0.0117	0.0712	1	11/11/10 01:48	SW846 8270D	BES	10K1764
Benzo (a) pyrene	ND		mg/kg dry	0.00850	0.0712	1	11/11/10 01:48	SW846 8270D	BES	10K1764
Benzo (b) fluoranthene	ND		mg/kg dry	0.0404	0.0712	1	11/11/10 01:48	SW846 8270D	BES	10K1764
Benzo (g,h,i) perylene	ND		mg/kg dry	0.00956	0.0712	1	11/11/10 01:48	SW846 8270D	BES	10K1764
Benzo (k) fluoranthene	ND		mg/kg dry	0.0393	0.0712	1	11/11/10 01:48	SW846 8270D	BES	10K1764
Chrysene	ND		mg/kg dry	0.0329	0.0712	1	11/11/10 01:48	SW846 8270D	BES	10K1764
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0159	0.0712	1	11/11/10 01:48	SW846 8270D	BES	10K1764
Fluoranthene	ND		mg/kg dry	0.0117	0.0712	1	11/11/10 01:48	SW846 8270D	BES	10K1764
Fluorene	ND		mg/kg dry	0.0212	0.0712	1	11/11/10 01:48	SW846 8270D	BES	10K1764
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0329	0.0712	1	11/11/10 01:48	SW846 8270D	BES	10K1764
Naphthalene	ND		mg/kg dry	0.0149	0.0712	1	11/11/10 01:48	SW846 8270D	BES	10K1764
Phenanthrene	ND		mg/kg dry	0.0106	0.0712	1	11/11/10 01:48	SW846 8270D	BES	10K1764
Pyrene	ND		mg/kg dry	0.0244	0.0712	1	11/11/10 01:48	SW846 8270D	BES	10K1764
1-Methylnaphthalene	ND		mg/kg dry	0.0127	0.0712	1	11/11/10 01:48	SW846 8270D	BES	10K1764
2-Methylnaphthalene	ND		mg/kg dry	0.0223	0.0712	1	11/11/10 01:48	SW846 8270D	BES	10K1764
Surr: Terphenyl-d14 (18-120%)	61 %					1	11/11/10 01:48	SW846 8270D	BES	10K1764
Surr: 2-Fluorobiphenyl (14-120%)	50 %					1	11/11/10 01:48	SW846 8270D	BES	10K1764
Surr: Nitrobenzene-d5 (17-120%)	52 %					1	11/11/10 01:48	SW846 8270D	BES	10K1764





10179 Highway 78

Ladson, SC 29456 Tom McElwee

Attn

Work Order:

NTK0932

Project Name:

Laurel Bay Housing Project

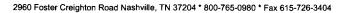
Project Number:

[none]

Received:

11/06/10 08:30

Sample ID: NTK0932-03 (833 Azalea - Soil) Sampled: 11/02/10 10 to General Chemistry Parameters % Dry Solids 96.4 % Volatile Organic Compounds by EPA Method 8260B MD mg/kg dry Benzene ND mg/kg dry Ethylbenzene ND mg/kg dry Naphthalene ND mg/kg dry Toluene ND mg/kg dry Xylenes, total ND mg/kg dry Surr: 1,2-Dichloroethane-d4 (67-138%) 119 % Surr: Dibromofluoromethane (75-125%) 99 % Surr: Toluene-d8 (76-129%) 93 % Surr: 4-Bromofluorobenzene (67-147%) 100 % Polyaromatic Hydrocarbons by EPA 8270D	45						
% Dry Solids 96.4 Wolatile Organic Compounds by EPA Method 8260B Benzene ND mg/kg dry Mphthalene ND mg/kg dry Naphthalene ND mg/kg dry Xylenes, total Surr: 1,2-Dichloroethane-d4 (67-138%) Surr: 1,2-Dichloroethane (75-125%) Surr: Dibromofluoromethane (75-125%) Surr: Toluene-d8 (76-129%) Surr: 4-Bromofluorobenzene (67-147%) 100 %							
Volatile Organic Compounds by EPA Method 8260B Benzene ND mg/kg dry Ethylbenzene ND mg/kg dry Naphthalene ND mg/kg dry Toluene ND mg/kg dry Xylenes, total ND mg/kg dry Surr: 1,2-Dichloroethane-d4 (67-138%) 119 % Surr: Dibromofluoromethane (75-125%) 99 % Surr: Toluene-d8 (76-129%) 93 % Surr: 4-Bromofluorobenzene (67-147%) 100 %							
Benzene ND mg/kg dry Ethylbenzene ND mg/kg dry Naphthalene ND mg/kg dry Toluene ND mg/kg dry Xylenes, total ND mg/kg dry Surr: 1,2-Dichloroethane-d4 (67-138%) 119 % Surr: Dibromofluoromethane (75-125%) 99 % Surr: Toluene-d8 (76-129%) 93 % Surr: 4-Bromofluorobenzene (67-147%) 100 %	0.500	0.500	1	11/11/10 08:35	SW-846	HLB	10K2045
Ethylbenzene ND mg/kg dry Naphthalene ND mg/kg dry Toluene ND mg/kg dry Xylenes, total ND mg/kg dry Surr: 1,2-Dichloroethane-d4 (67-138%) 119 % Surr: Dibromofluoromethane (75-125%) 99 % Surr: Toluene-d8 (76-129%) 93 % Surr: 4-Bromofluorobenzene (67-147%) 100 %							
Naphthalene ND mg/kg dry Tolucne ND mg/kg dry Xylenes, total ND mg/kg dry Xylenes, total Surr: 1,2-Dichloroethane-d4 (67-138%) Surr: Dibromofluoromethane (75-125%) Surr: Toluene-d8 (76-129%) Surr: 4-Bromofluorobenzene (67-147%) 100 %	0.00132	0.00240	1	11/12/10 20:08	SW846 8260B	MJH/H	10K2696
Tolucne ND mg/kg dry Xylenes, total ND mg/kg dry Surr: 1,2-Dichloroethane-d4 (67-138%) 119 % Surr: Dibromofluoromethane (75-125%) 99 % Surr: Toluene-d8 (76-129%) 93 % Surr: 4-Bromofluorobenzene (67-147%) 100 %	0.00117	0.00240	1	11/12/10 20:08	SW846 8260B	MJH/H	10K2696
Xylenes, total ND mg/kg dry Surr: 1,2-Dichloroethane-d4 (67-138%) 119 % Surr: Dibromofluoromethane (75-125%) 99 % Surr: Toluene-d8 (76-129%) 93 % Surr: 4-Bromofluorobenzene (67-147%) 100 %	0.00204	0.00599	1	11/12/10 20:08	SW846 8260B	MJH/H	10K2696
Surr: 1,2-Dichloroethane-d4 (67-138%) 119 % Surr: Dibromofluoromethane (75-125%) 99 % Surr: Toluene-d8 (76-129%) 93 % Surr: 4-Bromofluorobenzene (67-147%) 100 %	0.00107	0.00240	1	11/12/10 20:08	SW846 8260B	MJH/H	10K2696
Surr: Dibromofluoromethane (75-125%) 99 % Surr: Toluene-d8 (76-129%) 93 % Surr: 4-Bromofluorobenzene (67-147%) 100 %	0.00228	0.00599	1	11/12/10 20:08	SW846 8260B	MJH/H	10K2696
Surr: Toluene-d8 (76-129%) 93 % Surr: 4-Bromofluorobenzene (67-147%) 100 %			1	11/12/10 20:08	SW846 8260B	MJH/H	10K2696
Surr: 4-Bromofluorobenzene (67-147%) 100 %			1	11/12/10 20:08	SW846 8260B	MJH/H	10K2696
			1	11/12/10 20:08	SW846 8260B	MJH/H	10K2696
Polyaromatic Hydrocarbons by EPA 8270D			1	11/12/10 20:08	SW846 8260B	MJH/H	10K2696
Acenaphthene ND mg/kg dry	0.0143	0.0683	1	11/11/10 02:10	SW846 8270D	BES	10K1764
Acenaphthylene ND mg/kg dry	0.0204	0.0683	1	11/11/10 02:10	SW846 8270D	BES	10K1764
Anthracene ND mg/kg dry	0.00918	0.0683	1	11/11/10 02:10	SW846 8270D	BES	10K1764
Benzo (a) anthracene 0.0370 J mg/kg dry	0.0112	0.0683	1	11/11/10 02:10	SW846 8270D	BES	10K1764
Benzo (a) pyrene ND mg/kg dry	0.00816	0.0683	1	11/11/10 02:10	SW846 8270D	BES	10K1764
Benzo (b) fluoranthene ND mg/kg dry	0.0387	0.0683	1	11/11/10 02:10	SW846 8270D	BES	10K1764
Benzo (g,h,i) perylene ND mg/kg dry	0.00918	0.0683	1	11/11/10 02:10	SW846 8270D	BES	10K1764
Benzo (k) fluoranthene ND mg/kg dry	0.0377	0.0683	1	11/11/10 02:10	SW846 8270D	BES	10K1764
Chrysene ND mg/kg dry	0.0316	0.0683	1	11/11/10 02:10	SW846 8270D	BES	10K1764
Dibenz (a,h) anthracenc ND mg/kg dry	0.0153	0.0683	1	11/11/10 02:10	SW846 8270D	BES	10K1764
Fluoranthene 0.181 mg/kg dry	0.0112	0.0683	1	11/11/10 02:10	SW846 8270D	BES	10K1764
Fluorene ND mg/kg dry	0.0204	0.0683	1	11/11/10 02:10	SW846 8270D	BES	10K1764
Indeno (1,2,3-cd) pyrene ND mg/kg dry	0.0316	0.0683	1	11/11/10 02:10	SW846 8270D	BES	10K1764
Naphthalene ND mg/kg dry	0.0143	0.0683	1	11/11/10 02:10	SW846 8270D	BES	10K1764
Phenanthrene ND mg/kg dry	0.0102	0.0683	1	11/11/10 02:10	SW846 8270D	BES	10K1764
Pyrene 0.179 mg/kg dry	0.0234	0.0683	1	11/11/10 02:10	SW846 8270D	BES	10K1764
1-Methylnaphthalene ND mg/kg dry	0.0122	0.0683	1	11/11/10 02:10	SW846 8270D	BES	10K1764
2-Methylnaphthalene ND mg/kg dry	0.0214	0.0683	1	11/11/10 02:10	SW846 8270D	BES	10K1764
Surr: Terphenyl-d14 (18-120%) 53 %			1	11/11/10 02:10	SW846 8270D	BES	10K1764
Surr: 2-Fluorobiphenyl (14-120%) 43 %			1	11/11/10 02:10	SW846 8270D	BES	10K1764
Surr: Nitrobenzene-d5 (17-120%) 45 %							





10179 Highway 78

Ladson, SC 29456

Tom McElwee

Attn

Work Order:

NTK0932

Project Name:

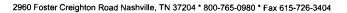
Laurel Bay Housing Project

Project Number:

[none]

Received: 11/06/10 08:30

						Dilution	•			
Analyte	Result	Flag	Units	MDL	MRL	Factor	Date/Time	Method	Analyst	Batch
Sample ID: NTK0932-04 (824 Az	alea - Soil) Sa	mpled:	11/02/10 1	5:15						
General Chemistry Parameters										
% Dry Solids	90.7		%	0.500	0.500	1	11/11/10 08:35	SW-846	HLB	10K2045
Volatile Organic Compounds by EPA	Method 8260B									
Benzene	ND		mg/kg dry	0.00118	0.00215	1	11/12/10 20:37	SW846 8260B	MJH/H	10K2696
Ethylbenzene	ND		mg/kg dry	0.00105	0.00215	1	11/12/10 20:37	SW846 8260B	MJH/H	10K2696
Naphthalene	ND		mg/kg dry	0.00183	0.00538	1	11/12/10 20:37	SW846 8260B	MJH/H	10K2696
Toluene	ND		mg/kg dry	0.000957	0.00215	1	11/12/10 20:37	SW846 8260B	MJH/H	10K2696
Xylenes, total	ND		mg/kg dry	0.00204	0.00538	1	11/12/10 20:37	SW846 8260B	MJH/H	10K2696
Surr: 1,2-Dichloroethane-d4 (67-138%)	119 %					1	11/12/10 20:37	SW846 8260B	MJH/H	10K2696
Surr: Dibromofluoromethane (75-125%)	98 %					1	11/12/10 20:37	SW846 8260B	MJH/H	10K2696
Surr: Toluene-d8 (76-129%)	94 %					1	11/12/10 20:37	SW846 8260B	MJH/H	10K2696
Surr: 4-Bromofluorobenzene (67-147%)	101 %					1	11/12/10 20:37	SW846 8260B	MJH/H	10K2690
Polyaromatic Hydrocarbons by EPA	8270D									
Acenaphthene	ND		mg/kg dry	0.0150	0.0719	1	11/11/10 02:31	SW846 8270D	BES	10K1764
Acenaphthylene	ND		mg/kg dry	0.0215	0.0719	1	11/11/10 02:31	SW846 8270D	BES	10K1764
Anthracene	ND		mg/kg dry	0.00966	0.0719	1	11/11/10 02:31	SW846 8270D	BES	10K1764
Benzo (a) anthracene	ND		mg/kg dry	0.0118	0.0719	1	11/11/10 02:31	SW846 8270D	BES	10K1764
Benzo (a) pyrene	ND		mg/kg dry	0.00858	0.0719	1	11/11/10 02:31	SW846 8270D	BES	10K1764
Benzo (b) fluoranthene	ND		mg/kg dry	0.0408	0.0719	1	11/11/10 02:31	SW846 8270D	BES	10K1764
Benzo (g,h,i) perylene	ND		mg/kg dry	0.00966	0.0719	1	11/11/10 02:31	SW846 8270D	BES	10K1764
Benzo (k) fluoranthene	ND		mg/kg dry	0.0397	0.0719	1	11/11/10 02:31	SW846 8270D	BES	10K1764
Chrysene	ND		mg/kg dry	0.0333	0.0719	1	11/11/10 02:31	SW846 8270D	BES	10K1764
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0161	0.0719	1	11/11/10 02:31	SW846 8270D	BES	10K1764
Fluoranthene	ND		mg/kg dry	0.0118	0.0719	1	11/11/10 02:31	SW846 8270D	BES	10K1764
Fluorene	ND		mg/kg dry	0.0215	0.0719	1	11/11/10 02:31	SW846 8270D	BES	10K1764
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0333	0.0719	1	11/11/10 02:31	SW846 8270D	BES	10K1764
Naphthalene	ND		mg/kg dry	0.0150	0.0719	1	11/11/10 02:31	SW846 8270D	BES	10K1764
Phenanthrene	ND		mg/kg dry	0.0107	0.0719	1	11/11/10 02:31	SW846 8270D	BES	10K1764
Pyrene	ND		mg/kg dry	0.0247	0.0719	1	11/11/10 02:31	SW846 8270D	BES	10K1764
1-Methylnaphthalene	ND		mg/kg dry	0.0129	0.0719	1	11/11/10 02:31	SW846 8270D	BES	10K1764
2-Methylnaphthalene	ND		mg/kg dry	0.0225	0.0719	1	11/11/10 02:31	SW846 8270D	BES	10K1764
Surr: Terphenyl-d14 (18-120%)	56 %					1	11/11/10 02:31	SW846 8270D	BES	10K1764
Surr: 2-Fluorobiphenyl (14-120%)	43 %					1	11/11/10 02:31	SW846 8270D	BES	10K1764
Surr: Nitrobenzene-d5 (17-120%)	46 %					1	11/11/10 02:31	SW846 8270D	BES	10K1764





10179 Highway 78

Ladson, SC 29456 Tom McElwee

Attn

Work Order:

NTK0932

Project Name:

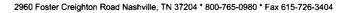
Laurel Bay Housing Project

Project Number:

[none]

11/06/10 08:30 Received:

_			WY *-		34701	Dilution	Analysis			_
Analyte	Result	Flag	Units	MDL	MRL	Factor	Date/Time	Method	Analyst	Batch
Sample ID: NTK0932-05 (826 Az	alea - Soil) Sa	mpled:	11/03/10 1	0:45						
General Chemistry Parameters										
% Dry Solids	94.4		%	0.500	0.500	1	11/11/10 08:35	SW-846	HLB	10K2045
Volatile Organic Compounds by EPA	Method 8260E	3								
Benzene	ND		mg/kg dry	0.00122	0.00222	1	11/12/10 21:07	SW846 8260B	MJH/H	10K2696
Ethylbenzene	ND		mg/kg dry	0.00109	0.00222	1	11/12/10 21:07	SW846 8260B	MJH/H	10K2696
Naphthalene	ND		mg/kg dry	0.00189	0.00556	1	11/12/10 21:07	SW846 8260B	MJH/H	10K2696
Toluene	ND		mg/kg dry	0.000990	0.00222	1	11/12/10 21:07	SW846 8260B	MJH/H	10K2696
Xylenes, total	ND		mg/kg dry	0.00211	0.00556	1	11/12/10 21:07	SW846 8260B	MJH/H	10K2696
Surr: 1,2-Dichloroethane-d4 (67-138%)	118 %					1	11/12/10 21:07	SW846 8260B	MJH/H	10K2696
Surr: Dibromofluoromethane (75-125%)	98 %					1	11/12/10 21:07	SW846 8260B	MJH/H	10K2696
Surr: Toluene-d8 (76-129%)	94 %					1	11/12/10 21:07	SW846 8260B	MJH/H	10K2696
Surr: 4-Bromofluorobenzene (67-147%)	100 %					1	11/12/10 21:07	SW846 8260B	MJH/H	10K2696
Polyaromatic Hydrocarbons by EPA	8270D									
Acenaphthene	ND		mg/kg dry	0.0147	0.0705	1	11/11/10 02:53	SW846 8270D	BES	10K1764
Acenaphthylene	ND		mg/kg dry	0.0211	0.0705	1	11/11/10 02:53	SW846 8270D	BES	10K1764
Anthracene	ND		mg/kg dry	0.00948	0.0705	1	11/11/10 02:53	SW846 8270D	BES	10K1764
Benzo (a) anthracene	ND		mg/kg dry	0.0116	0.0705	1	11/11/10 02:53	SW846 8270D	BES	10K1764
Benzo (a) pyrene	ND		mg/kg dry	0.00842	0.0705	1	11/11/10 02:53	SW846 8270D	BES	10K1764
Benzo (b) fluoranthene	ND		mg/kg dry	0.0400	0.0705	1	11/11/10 02:53	SW846 8270D	BES	10K1764
Benzo (g,h,i) perylene	ND		mg/kg dry	0.00948	0.0705	1	11/11/10 02:53	SW846 8270D	BES	10K1764
Benzo (k) fluoranthene	ND		mg/kg dry	0.0390	0.0705	1	11/11/10 02:53	SW846 8270D	BES	10K1764
Chrysene	ND		mg/kg dry	0.0326	0.0705	1	11/11/10 02:53	SW846 8270D	BES	10K1764
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0158	0.0705	1	11/11/10 02:53	SW846 8270D	BES	10K1764
Fluoranthene	ND		mg/kg dry	0.0116	0.0705	1	11/11/10 02:53	SW846 8270D	BES	10K1764
Fluorene	ND		mg/kg dry	0.0211	0.0705	1	11/11/10 02:53	SW846 8270D	BES	10K1764
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0326	0.0705	1	11/11/10 02:53	SW846 8270D	BES	10K1764
Naphthalene	ND		mg/kg dry	0.0147	0.0705	1	11/11/10 02:53	SW846 8270D	BES	10K1764
Phenanthrene	ND		mg/kg dry	0.0105	0.0705	1	11/11/10 02:53	SW846 8270D	BES	10K1764
Pyrene	ND		mg/kg dry	0.0242	0.0705	1	11/11/10 02:53	SW846 8270D	BES	10K1764
1-Methylnaphthalene	ND		mg/kg dry	0.0126	0.0705	1	11/11/10 02:53	SW846 8270D	BES	10K1764
2-Methylnaphthalene	ND		mg/kg dry	0.0221	0.0705	1	11/11/10 02:53	SW846 8270D	BES	10K1764
Surr: Terphenyl-d14 (18-120%)	47 %					1	11/11/10 02:53	SW846 8270D	BES	10K1764
Surr: 2-Fluorobiphenyl (14-120%)	37 %					1	11/11/10 02:53	SW846 8270D	BES	10K1764
Surr: Nitrobenzene-d5 (17-120%)	38 %					1	11/11/10 02:53	SW846 8270D	BES	10K1764





10179 Highway 78 Ladson, SC 29456

Ladson, SC 29456 Tom McElwee

Attn

Work Order:

NTK0932

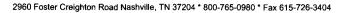
Project Name:

Laurel Bay Housing Project

Project Number: Received: [nonc] 11/06/10 08:30

ANA	TVI	TICA:	DE	PORT
AINA	11.1	LIL A	. Kr.	PUJKI

						Dilution	Analysis			
Analyte	Result	Flag	Units	MDL	MRL	Factor	Date/Time	Method	Analyst	Batch
Sample ID: NTK0932-06 (839 Az General Chemistry Parameters	zalea - Soil) Sa	mpled:	11/03/10 1	5:15						
% Dry Solids	96.4		%	0.500	0.500	1	11/11/10 08:35	SW-846	HLB	10K2045
Volatile Organic Compounds by EPA	A Method 8260E	3								
Benzene	ND		mg/kg dry	0.00127	0.00231	1	11/12/10 21:36	SW846 8260B	MJH/H	10K2696
Ethylbenzene	ND		mg/kg dry	0.00113	0.00231	1	11/12/10 21:36	SW846 8260B	MJH/H	10K2696
Naphthalene	ND		mg/kg dry	0.00197	0.00579	1	11/12/10 21:36	SW846 8260B	MJH/H	10K2696
Toluene	ND		mg/kg dry	0.00103	0.00231	1	11/12/10 21:36	SW846 8260B	MJH/H	10K2696
Xylenes, total	ND		mg/kg dry	0.00220	0.00579	1	11/12/10 21:36	SW846 8260B	MJH/H	10K2696
Surr: 1,2-Dichloroethane-d4 (67-138%)	118 %					1	11/12/10 21:36	SW846 8260B	MJH/H	10K2696
Surr: Dibromofluoromethane (75-125%)	98 %					1	11/12/10 21:36	SW846 8260B	MJH/H	10K2696
Surr: Toluene-d8 (76-129%)	96 %					1	11/12/10 21:36	SW846 8260B	MJH/H	10K2696
Surr: 4-Bromofluorobenzene (67-147%)	105 %					1	11/12/10 21:36	SW846 8260B	MJH/H	10K2696
Polyaromatic Hydrocarbons by EPA	8270D									
Acenaphthene	ND		mg/kg dry	0.0142	0.0680	1	11/11/10 03:15	SW846 8270D	BES	10K1764
Acenaphthylene	ND		mg/kg dry	0.0203	0.0680	1	11/11/10 03:15	SW846 8270D	BES	10K1764
Anthracene	ND		mg/kg dry	0.00914	0.0680	1	11/11/10 03:15	SW846 8270D	BES	10K1764
Benzo (a) anthracene	ND		mg/kg dry	0.0112	0.0680	1	11/11/10 03:15	SW846 8270D	BES	10K1764
Benzo (a) pyrene	ND		mg/kg dry	0.00812	0.0680	1	11/11/10 03:15	SW846 8270D	BES	10K1764
Benzo (b) fluoranthene	ND		mg/kg dry	0.0386	0.0680	ì	11/11/10 03:15	SW846 8270D	BES	10K1764
Benzo (g,h,i) perylene	ND		mg/kg dry	0.00914	0.0680	1	11/11/10 03:15	SW846 8270D	BES	10K1764
Benzo (k) fluoranthene	ND		mg/kg dry	0.0376	0.0680	1	11/11/10 03:15	SW846 8270D	BES	10K1764
Chrysene	ND		mg/kg dry	0.0315	0.0680	1	11/11/10 03:15	SW846 8270D	BES	10K1764
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0152	0.0680	1	11/11/10 03:15	SW846 8270D	BES	10K1764
Fluoranthene	ND		mg/kg dry	0.0112	0.0680	1	11/11/10 03:15	SW846 8270D	BES	10K1764
Fluorene	ND		mg/kg dry	0.0203	0.0680	1	11/11/10 03:15	SW846 8270D	BES	10K1764
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0315	0.0680	1	11/11/10 03:15	SW846 8270D	BES	10K1764
Naphthalene	ND		mg/kg dry	0.0142	0.0680	1	11/11/10 03:15	SW846 8270D	BES	10K1764
Phenanthrene	ND		mg/kg dry	0.0102	0.0680	1	11/11/10 03:15	SW846 8270D	BES	10K1764
Pyrene	ND		mg/kg dry	0.0234	0.0680	1	11/11/10 03:15	SW846 8270D	BES	10K1764
1-Methylnaphthalene	ND		mg/kg dry	0.0122	0.0680	1	11/11/10 03:15	SW846 8270D	BES	10K1764
2-Methylnaphthalene	ND		mg/kg dry	0.0213	0.0680	1	11/11/10 03:15	SW846 8270D	BES	10K1764
Surr: Terphenyl-d14 (18-120%)	54 %					1	11/11/10 03:15	SW846 8270D	BES	10K1764
Surr: 2-Fluorobiphenyl (14-120%)	45 %					I	11/11/10 03:15	SW846 8270D	BES	10K1764
Surr: Nitrobenzene-d5 (17-120%)	47 %					1	11/11/10 03:15	SW846 8270D	BES	10K1764





10179 Highway 78

Ladson, SC 29456

Tom McElwee

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Work Order:

NTK0932

Project Name:

Laurel Bay Housing Project

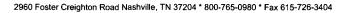
Project Number:

[none]

Received: 11/06/10 08:30

ANALYTICAL REPORT

Analyta	D14	El	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Analyte	Result	Flag	Cints	. WIDL		ractor	Date/ I lille	Methou	Anaiysi	Daten
Sample ID: NTK0932-07 (830 Az	zalea - Soil) Sa	mpled:	11/04/10 1	0:30						
General Chemistry Parameters										
% Dry Solids	96.7		%	0.500	0.500	1	11/11/10 08:35	SW-846	HLB	10K2045
Volatile Organic Compounds by EPA	A Method 8260B									
Benzene	ND		mg/kg dry	0.00130	0.00237	1	11/15/10 15:40	SW846 8260B	KKK	10K1364
Ethylbenzene	ND		mg/kg dry	0.00116	0.00237	1	11/15/10 15:40	SW846 8260B	KKK	10K1364
Naphthalene	ND		mg/kg dry	0.00202	0.00593	1	11/15/10 15:40	SW846 8260B	KKK	10K1364
Toluene	ND		mg/kg dry	0.00106	0.00237	1	11/15/10 15:40	SW846 8260B	KKK	10K1364
Xylenes, total	ND		mg/kg dry	0.00225	0.00593	1	11/15/10 15:40	SW846 8260B	KKK	10K1364
Surr: 1,2-Dichloroethane-d4 (67-138%)	91 %					1	11/15/10 15:40	SW846 8260B	KKK	10K136
Surr: Dibromofluoromethane (75-125%)	110 %					1	11/15/10 15:40	SW846 8260B	KKK	10K136
Surr: Toluene-d8 (76-129%)	95 %					1	11/15/10 15:40	SW846 8260B	KKK	10K136
Surr: 4-Bromofluorobenzene (67-147%)	106 %					1	11/15/10 15:40	SW846 8260B	KKK	10K136
Polyaromatic Hydrocarbons by EPA	8270D									
Acenaphthene	ND		mg/kg dry	0.0143	0.0683	1	11/11/10 03:37	SW846 8270D	BES	10K1764
Acenaphthylene	ND		mg/kg dry	0.0204	0.0683	1	11/11/10 03:37	SW846 8270D	BES	10K1764
Anthracene	ND		mg/kg dry	0.00917	0.0683	1	11/11/10 03:37	SW846 8270D	BES	10K1764
Benzo (a) anthracene	ND		mg/kg dry	0.0112	0.0683	1	11/11/10 03:37	SW846 8270D	BES	10K1764
Benzo (a) pyrene	ND		mg/kg dry	0.00815	0.0683	1	11/11/10 03:37	SW846 8270D	BES	10K1764
Benzo (b) fluoranthene	ND		mg/kg dry	0.0387	0.0683	1	11/11/10 03:37	SW846 8270D	BES	10K1764
Benzo (g,h,i) perylene	ND		mg/kg dry	0.00917	0.0683	1	11/11/10 03:37	SW846 8270D	BES	10K1764
Benzo (k) fluoranthene	ND		mg/kg dry	0.0377	0.0683	1	11/11/10 03:37	SW846 8270D	BES	10K1764
Chrysene	ND		mg/kg dry	0.0316	0.0683	1	11/11/10 03:37	SW846 8270D	BES	10K1764
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0153	0.0683	1	11/11/10 03:37	SW846 8270D	BES	10K1764
Fluoranthene	ND		mg/kg dry	0.0112	0.0683	1	11/11/10 03:37	SW846 8270D	BES	10K1764
Fluorene	ND		mg/kg dry	0.0204	0.0683	1	11/11/10 03:37	SW846 8270D	BES	10K1764
Indeno (1,2,3-ed) pyrene	ND		mg/kg dry	0.0316	0.0683	1	11/11/10 03:37	SW846 8270D	BES	10K1764
Naphthalene	ND		mg/kg dry	0.0143	0.0683	1	11/11/10 03:37	SW846 8270D	BES	10K1764
Phenanthrene	ND		mg/kg dry	0.0102	0.0683	1	11/11/10 03:37	SW846 8270D	BES	10K1764
Pyrene	ND		mg/kg dry	0.0234	0.0683	1	11/11/10 03:37	SW846 8270D	BES	10K1764
I-Methylnaphthalene	ND		mg/kg dry	0.0122	0.0683	1	11/11/10 03:37	SW846 8270D	BES	10K1764
2-Methylnaphthalene	ND		mg/kg dry	0.0214	0.0683	1	11/11/10 03:37	SW846 8270D	BES	10K1764
Surr: Terphenyl-d14 (18-120%)	55 %					1	11/11/10 03:37	SW846 8270D	BES	10K176
Surr: 2-Fluorobiphenyl (14-120%)	49 %					1	11/11/10 03:37	SW846 8270D	BES	10K1764
Surr: Nitrobenzene-d5 (17-120%)	51 %					1	11/11/10 03:37	SW846 8270D	BES	10K1764





10179 Highway 78 Ladson, SC 29456

Tom McElwee

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Work Order:

NTK0932

Project Name:

Laurel Bay Housing Project

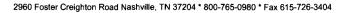
Project Number:

[none]

Received: 11/06/10 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NTK0932-08 (843 A	zalea - Soil) Sa		11/04/10 1	5:30						
General Chemistry Parameters										
% Dry Solids	93.5		%	0.500	0.500	1	11/11/10 08:35	SW-846	HLB	10K2045
Volatile Organic Compounds by EP	A Method 8260E	3								
Benzene	ND		mg/kg dry	0.00135	0.00246	1	11/15/10 16:10	SW846 8260B	KKK	10K1364
Ethylbenzene	ND		mg/kg dry	0.00120	0.00246	1	11/15/10 16:10	SW846 8260B	KKK	10K1364
Naphthalene	ND		mg/kg dry	0.00209	0.00615	1	11/15/10 16:10	SW846 8260B	KKK	10K1364
Toluene	ND		mg/kg dry	0.00109	0.00246	1	11/15/10 16:10	SW846 8260B	KKK	10K1364
Xylenes, total	ND		mg/kg dry	0.00234	0.00615	1	11/15/10 16:10	SW846 8260B	KKK	10K1364
Surr: 1,2-Dichloroethane-d4 (67-138%)	91 %					1	11/15/10 16:10	SW846 8260B	KKK	10K1364
Surr: Dibromofluoromethane (75-125%)	108 %					1	11/15/10 16:10	SW846 8260B	KKK	10K1364
Surr: Toluene-d8 (76-129%)	94 %					1	11/15/10 16:10	SW846 8260B	KKK	10K1364
Surr: 4-Bromofluorobenzene (67-147%)	111 %					1	11/15/10 16:10	SW846 8260B	KKK	10K1364
Polyaromatic Hydrocarbons by EPA	8270D									
Acenaphthene	ND		mg/kg dry	0.0148	0.0710	1	11/11/10 03:59	SW846 8270D	BES	10K1764
Acenaphthylene	ND		mg/kg dry	0.0212	0.0710	1	11/11/10 03:59	SW846 8270D	BES	10K1764
Anthracene	ND		mg/kg dry	0.00954	0.0710	1	11/11/10 03:59	SW846 8270D	BES	10K1764
Benzo (a) anthracene	0.0519	J	mg/kg dry	0.0117	0.0710	1	11/11/10 03:59	SW846 8270D	BES	10K1764
Benzo (a) pyrene	ND		mg/kg dry	0.00848	0.0710	1	11/11/10 03:59	SW846 8270D	BES	10K1764
Benzo (b) fluoranthene	0.0452	J	mg/kg dry	0.0403	0.0710	1	11/11/10 03:59	SW846 8270D	BES	10K1764
Benzo (g,h,i) perylene	ND		mg/kg dry	0.00954	0.0710	1	11/11/10 03:59	SW846 8270D	BES	10K1764
Benzo (k) fluoranthene	ND		mg/kg dry	0.0392	0.0710	1	11/11/10 03:59	SW846 8270D	BES	10K1764
Chrysene	0.0445	j	mg/kg dry	0.0329	0.0710	1	11/11/10 03:59	SW846 8270D	BES	10K1764
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0159	0.0710	1	11/11/10 03:59	SW846 8270D	BES	10K1764
Fluoranthene	0.0791		mg/kg dry	0.0117	0.0710	1	11/11/10 03:59	SW846 8270D	BES	10K1764
Fluorene	ND		mg/kg dry	0.0212	0.0710	1	11/11/10 03:59	SW846 8270D	BES	10K1764
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0329	0.0710	1	11/11/10 03:59	SW846 8270D	BES	10K1764
Naphthalene	ND		mg/kg dry	0.0148	0.0710	1	11/11/10 03:59	SW846 8270D	BES	10K1764
Phenanthrene	ND		mg/kg dry	0.0106	0.0710	1	11/11/10 03:59	SW846 8270D	BES	10K1764
Pyrene	0.0777		mg/kg dry	0.0244	0.0710	1	11/11/10 03:59	SW846 8270D	BES	10K1764
1-Methylnaphthalene	ND		mg/kg dry	0.0127	0.0710	1	11/11/10 03:59	SW846 8270D	BES	10K1764
2-Methylnaphthalene	ND		mg/kg dry	0.0223	0.0710	1	11/11/10 03:59	SW846 8270D	BES	10K1764
Surr: Terphenyl-d14 (18-120%)	53 %					1	11/11/10 03:59	SW846 8270D	BES	10K1764
Surr: 2-Fluorobiphenyl (14-120%)	48 %					I	11/11/10 03:59	SW846 8270D	BES	10K1764
Surr: Nitrobenzene-d5 (17-120%)	48 %					I	11/11/10 03:59	SW846 8270D	BES	10K1764





10179 Highway 78

Ladson, SC 29456 Tom McElwee

Attn

Work Order:

NTK0932

Project Name:

Laurel Bay Housing Project

Project Number:

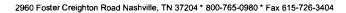
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Received:

11/06/10 08:30

SAMPLE EXTRACTION DATA

		V	Vt/Vol				Extraction
Parameter	Batch	Lab Number E	extracted Ex	tracted Vol	Date	Analyst	Method
Polyaromatic Hydrocarbons by EPA 8270	D						
SW846 8270D	10K1764	NTK0932-01	30.31	1.00	11/09/10 10:00	MSR	EPA 3550C
SW846 8270D	10K1764	NTK0932-02	30.69	1.00	11/09/10 10:00	MSR	EPA 3550C
SW846 8270D	10K1764	NTK0932-03	30.54	1.00	11/09/10 10:00	MSR	EPA 3550C
SW846 8270D	10K1764	NTK0932-04	30.84	1.00	11/09/10 10:00	MSR	EPA 3550C
SW846 8270D	10K1764	NTK0932-05	30.17	1.00	11/09/10 10:00	MSR	EPA 3550C
SW846 8270D	10K1764	NTK0932-06	30.64	1.00	11/09/10 10:00	MSR	EPA 3550C
SW846 8270D	10K1764	NTK0932-07	30.44	1.00	11/09/10 10:00	MSR	EPA 3550C
SW846 8270D	10K1764	NTK0932-08	30.27	1.00	11/09/10 10:00	MSR	EPA 3550C
Volatile Organic Compounds by EPA Met	hod 8260B						
SW846 8260B	10K2696	NTK0932-01	4.69	5.00	11/01/10 10:45	JRL	EPA 5035
SW846 8260B	10K2696	NTK0932-02	4.55	5.00	11/01/10 15:45	JRL	EPA 5035
SW846 8260B	10K2696	NTK0932-03	4.33	5.00	11/02/10 10:45	JRL	EPA 5035
SW846 8260B	10K2696	NTK0932-04	5.13	5.00	11/02/10 15:15	JRL	EPA 5035
SW846 8260B	10K2696	NTK0932-05	4.76	5.00	11/03/10 10:45	JRL	EPA 5035
SW846 8260B	10K2696	NTK0932-06	4.48	5.00	11/03/10 15:15	JRL	EPA 5035
SW846 8260B	10K2696	NTK0932-07	4.40	5.00	11/04/10 10:30	JRL	EPA 5035
SW846 8260B	10K1364	NTK0932-07RE1	4.36	5.00	11/04/10 10:30	JRL	EPA 5035
SW846 8260B	10K2696	NTK0932-08	4.76	5.00	11/04/10 15:30	JRL	EPA 5035
SW846 8260B	10K1364	NTK0932-08RE1	4.35	5.00	11/04/10 15:30	JRL	EPA 5035





10179 Highway 78 Ladson, SC 29456

Tom McElwee

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Work Order:

NTK0932

Project Name:

Laurel Bay Housing Project

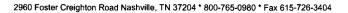
Project Number:

[none]

Received: 11/06/10 08:30

PROJECT QUALITY CONTROL DATA Blank

Analyte	Blank Value Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by	EPA Method 8260B				•
10K1364-BLK1					
Benzene	< 0.00110	mg/kg wet	10K1364	10K1364-BLK1	11/15/10 14:11
Ethylbenzene	<0.000980	mg/kg wet	10K1364	10K1364-BLK1	11/15/10 14:11
Naphthalene	< 0.00170	mg/kg wet	10K1364	10K1364-BLK1	11/15/10 14:11
Toluene	<0.000890	mg/kg wet	10K1364	10K1364-BLK1	11/15/10 14:11
Xylenes, total	< 0.00190	mg/kg wet	10K1364	10K1364-BLK1	11/15/10 14:11
Surrogate: 1,2-Dichloroethane-d4	92%		10K1364	10K1364-BLK1	11/15/10 14:11
Surrogate: Dibromofluoromethane	108%		10K1364	10K1364-BLK1	11/15/10 14:11
Surrogate: Toluene-d8	92%		10K1364	10K1364-BLK1	11/15/10 14:11
Surrogate: 4-Bromofluorobenzene	111%		10K1364	10K1364-BLK1	11/15/10 14:11
10K1364-BLK2					
Benzene	< 0.0550	mg/kg wet	10K1364	10K1364-BLK2	11/15/10 14:41
Ethylbenzene	< 0.0490	mg/kg wet	10K1364	10K1364-BLK2	11/15/10 14:41
Naphthalene	< 0.0850	mg/kg wet	10K1364	10K1364-BLK2	11/15/10 14:41
Toluene	< 0.0445	mg/kg wet	10K1364	10K1364-BLK2	11/15/10 14:41
Xylenes, total	< 0.0950	mg/kg wet	10K1364	10K1364-BLK2	11/15/10 14:41
Surrogate: 1,2-Dichloroethane-d4	85%		10K1364	10K1364-BLK2	11/15/10 14:41
Surrogate: Dibromofluoromethane	107%		10K1364	10K1364-BLK2	11/15/10 14:41
Surrogate: Toluene-d8	94%		10K1364	10K1364-BLK2	11/15/10 14:41
Surrogate: 4-Bromofluorobenzene	106%		10K1364	10K1364-BLK2	11/15/10 14:41
10K2696-BLK1					
Benzene	< 0.00110	mg/kg wet	10K2696	10K2696-BLK1	11/12/10 13:52
Ethylbenzene	<0.000980	mg/kg wet	10K2696	10K2696-BLK1	11/12/10 13:52
Naphthalene	< 0.00170	mg/kg wet	10K2696	10K2696-BLK1	11/12/10 13:52
Toluene	<0.000890	mg/kg wet	10K2696	10K2696-BLK1	11/12/10 13:52
Xylenes, total	< 0.00190	mg/kg wet	10K2696	10K2696-BLK1	11/12/10 13:52
Surrogate: 1,2-Dichloroethane-d4	85%		10K2696	10K2696-BLK1	11/12/10 13:52
Surrogate: Dibromofluoromethane	94%		10K2696	10K2696-BLK1	11/12/10 13:52
Surrogate: Toluene-d8	101%		10K2696	10K2696-BLK1	11/12/10 13:52
Surrogate: 4-Bromofluorobenzene	102%		10K2696	10K2696-BLK1	11/12/10 13:52
10K2696-BLK2					
Benzene	<0.0550	mg/kg wet	10K2696	10K2696-BLK2	11/12/10 14:21
Ethylbenzene	<0.0490	mg/kg wet	10K2696	10K2696-BLK2	11/12/10 14:21
Naphthalene	< 0.0850	mg/kg wet	10K2696	10K2696-BLK2	11/12/10 14:21
Toluene	<0.0445	mg/kg wet	10K2696	10K2696-BLK2	11/12/10 14:21
Xylenes, total	<0.0950	mg/kg wet	10K2696	10K2696-BLK2	11/12/10 14:21
Surrogate: 1,2-Dichloroethane-d4	79%		10K2696	10K2696-BLK2	11/12/10 14:21
Surrogate: Dibromofluoromethane	90%		10K2696	10K2696-BLK2	11/12/10 14:21
Surrogate: Toluene-d8	105%		10K2696	10K2696-BLK2	11/12/10 14:21
Surrogate: 4-Bromofluorobenzene	102%		10K2696	10K2696-BLK2	11/12/10 14:21





10179 Highway 78

Ladson, SC 29456

Tom McElwce

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Work Order:

NTK0932

Project Name:

Laurel Bay Housing Project

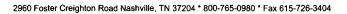
Project Number:

[none]

Received: 11/06/10 08:30

PROJECT QUALITY CONTROL DATA Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by	y EPA Method 8260B					
Polyaromatic Hydrocarbons by	EPA 8270D					
10K1764-BLK1						
Acenaphthene	< 0.0140		mg/kg wet	10K1764	10K1764-BLK1	11/15/10 14:32
Acenaphthylene	< 0.0200		mg/kg wet	10K1764	10K1764-BLK1	11/15/10 14:32
Anthracene	< 0.00900		mg/kg wet	10K1764	10K1764-BLK1	11/15/10 14:32
Benzo (a) anthracene	< 0.0110		mg/kg wet	10K1764	10K1764-BLK1	11/15/10 14:32
Benzo (a) pyrene	< 0.00800		mg/kg wet	10K1764	10K1764-BLK1	11/15/10 14:32
Benzo (b) fluoranthene	< 0.0380		mg/kg wet	10K1764	10K1764-BLK1	11/15/10 14:32
Benzo (g,h,i) perylene	< 0.00900		mg/kg wet	10K1764	10K1764-BLK1	11/15/10 14:32
Benzo (k) fluoranthene	< 0.0370		mg/kg wet	10K1764	10K1764-BLK1	11/15/10 14:32
Chrysene	< 0.0310		mg/kg wet	10K1764	10K1764-BLK1	11/15/10 14:32
Dibenz (a,h) anthracene	< 0.0150		mg/kg wet	10K1764	10K1764-BLK1	11/15/10 14:32
Fluoranthene	< 0.0110		mg/kg wet	10K1764	10K1764-BLK1	11/15/10 14:32
Fluorene	< 0.0200		mg/kg wet	10K1764	10K1764-BLK1	11/15/10 14:32
Indeno (1,2,3-cd) pyrene	< 0.0310		mg/kg wet	10K1764	10K1764-BLK1	11/15/10 14:32
Naphthalene	< 0.0140		mg/kg wet	10K1764	10K1764-BLK1	11/15/10 14:32
Phenanthrene	< 0.0100		mg/kg wet	10K1764	10K1764-BLK1	11/15/10 14:32
Pyrene	< 0.0230		mg/kg wet	10K1764	10K1764-BLK1	11/15/10 14:32
l-Methylnaphthalene	< 0.0120		mg/kg wet	10K1764	10K1764-BLK1	11/15/10 14:32
2-Methylnaphthalene	< 0.0210		mg/kg wet	10K1764	10K1764-BLK1	11/15/10 14:32
Surrogate: Terphenyl-d14	66%			10K1764	10K1764-BLK1	11/15/10 14:32
Surrogate: 2-Fluorobiphenyl	54%			10 K 1764	10K1764-BLK1	11/15/10 14:32
Surrogate: Nitrobenzene-d5	49%			10K1764	10K1764-BLK1	11/15/10 14:32





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Work Order:

NTK0932

Project Name:

Laurel Bay Housing Project

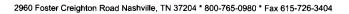
Project Number: Received: [none]

11/06/10 08:30

PROJECT QUALITY CONTROL DATA

Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
General Chemistry Parameters										
10K2045-DUP1										
% Dry Solids	84.0	83.1		%	1	20	10K2045	NTK0689-01		11/11/10 08:35





10179 Highway 78 Ladson, SC 29456

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Work Order:

NTK0932

Project Name:

Laurel Bay Housing Project

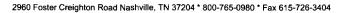
Project Number:

[none]

Received: 11/06/10 08:30

PROJECT QUALITY CONTROL DATA LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by E	PA Method 8260B							
10K1364-BS1								
Benzene	50.0	49.2		ug/kg	98%	78 - 126	10K1364	11/15/10 11:08
Ethylbenzene	50.0	51.3		ug/kg	103%	79 - 130	10K1364	11/15/10 11:08
Naphthalene	50.0	47.6		ug/kg	95%	72 - 150	10K1364	11/15/10 11:08
Toluene	50.0	47.2		ug/kg	94%	76 - 126	10K1364	11/15/10 11:08
Xylenes, total	150	156		ug/kg	104%	80 - 130	10K1364	11/15/10 11:08
Surrogate: 1,2-Dichloroethane-d4	50.0	46.0			92%	67 - 138	10K1364	11/15/10 11:08
Surrogate: Dibromofluoromethane	50.0	54.3			109%	75 - 125	10K1364	11/15/10 11:08
Surrogate: Toluene-d8	50.0	47.6			95%	76 - 129	10K1364	11/15/10 11:08
Surrogate: 4-Bromofluorobenzene	50.0	50.0			100%	67 - 147	10K1364	11/15/10 11:08
10K2696-BS1								
Benzene	50.0	44.5		ug/kg	89%	78 - 126	10K2696	11/12/10 11:09
Ethylbenzene	50.0	48.6		ug/kg	97%	79 - 130	10K2696	11/12/10 11:09
Naphthalene	50.0	41.1		ug/kg	82%	72 - 150	10K2696	11/12/10 11:09
Toluene	50.0	48.0		ug/kg	96%	76 - 126	10K2696	11/12/10 11:09
Xylenes, total	150	144		ug/kg	96%	80 - 130	10K2696	11/12/10 11:09
Surrogate: 1,2-Dichloroethane-d4	50.0	40.0			80%	67 - 138	10K2696	11/12/10 11:09
Surrogate: Dibromofluoromethane	50.0	44.9			90%	75 - 125	10K2696	11/12/10 11:09
Surrogate: Toluene-d8	50.0	51.6			103%	76 - 129	10K2696	11/12/10 11:09
Surrogate: 4-Bromofluorobenzene	50.0	51.4			103%	67 - 147	10K2696	11/12/10 11:09
Polyaromatic Hydrocarbons by EP	A 8270D							
10K1764-BS1								
Acenaphthene	1.67	1.37		mg/kg wet	82%	49 - 120	10K1764	11/15/10 11:36
Acenaphthylene	1.67	1,40		mg/kg wet	84%	52 - 120	10K1764	11/15/10 11:36
Anthracene	1.67	1.45		mg/kg wet	87%	58 - 120	10K1764	11/15/10 11:36
Benzo (a) anthracene	1.67	1.35		mg/kg wet	81%	57 - 120	10K1764	11/15/10 11:36
Benzo (a) pyrene	1.67	1.45		mg/kg wet	87%	55 - 120	10K1764	11/15/10 11:36
Benzo (b) fluoranthene	1.67	1.40		mg/kg wet	84%	51 - 123	10K1764	11/15/10 11:36
Benzo (g,h,i) perylene	1.67	1.39		mg/kg wet	84%	49 - 121	10K1764	11/15/10 11:36
Benzo (k) fluoranthene	1.67	1.48		mg/kg wet	89%	42 - 129	10K1764	11/15/10 11:36
Chrysene	1.67	1.32		mg/kg wet	79%	55 - 120	10K1764	11/15/10 11:36
Dibenz (a,h) anthracene	1.67	1.40		mg/kg wet	84%	50 - 123	10K1764	11/15/10 11:36
Fluoranthene	1.67	1.42		mg/kg wet	85%	58 - 120	10K1764	11/15/10 11:36
Fluorene	1.67	1.41		mg/kg wet	84%	54 - 120	10K1764	11/15/10 11:36
Indeno (1,2,3-cd) pyrene	1.67	1.40		mg/kg wet	84%	50 - 122	10K1764	11/15/10 11:36
Naphthalene	1.67	1.17		mg/kg wet	70%	28 - 120	10K1764	11/15/10 11:36
Phenanthrene	1.67	1.48		mg/kg wet	89%	56 - 120	10K1764	11/15/10 11:36
Pyrene	1.67	1.39		mg/kg wet	83%	56 - 120	10K1764	11/15/10 11:36
1-Methylnaphthalene	1.67	1.08		mg/kg wet	65%	36 - 120	10K1764	11/15/10 11:36
2-Methylnaphthalene	1.67	1.17		mg/kg wet	70%	36 - 120	10K1764	11/15/10 11:36





10179 Highway 78

Ladson, SC 29456

Tom McElwee

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Work Order:

NTK0932

Project Name:

Laurel Bay Housing Project

Project Number:

[none]

Received: 11/06/10 08:30

PROJECT QUALITY CONTROL DATA

LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8	3270D		-					
10K1764-BS1								
Surrogate: Terphenyl-d14	1.67	1.19			71%	18 - 120	10K1764	11/15/10 11:36
Surrogate: 2-Fluorobiphenyl	1.67	1.23			74%	14 - 120	10K1764	11/15/10 11:36
Surrogate: Nitrobenzene-d5	1.67	1.01			61%	17 - 120	10 K 1764	11/15/10 11:36



10179 Highway 78

Ladson, SC 29456 Tom McElwee

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Work Order:

NTK0932

Project Name:

Laurel Bay Housing Project

Project Number:

[none]

Received: 11/06/10 08:30

PROJECT QUALITY CONTROL DATA LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EP.	A Method 8	3260B										
10K1364-BSD1												
Benzene		50.5		ug/kg	50.0	101%	78 - 126	3	50	10K1364		11/15/10 11:38
Ethylbenzene		50.9		ug/kg	50.0	102%	79 - 130	0.9	50	10K1364		11/15/10 11:38
Naphthalene		52.2		ug/kg	50.0	104%	72 - 150	9	50	10K1364		11/15/10 11:38
Toluene		46.6		ug/kg	50.0	93%	76 - 126	1	50	10K1364		11/15/10 11:38
Xylenes, total		157		ug/kg	150	104%	80 - 130	0.4	50	10K1364		11/15/10 11:38
Surrogate: 1,2-Dichloroethane-d4		45.0		ug/kg	50.0	90%	67 - 138			10K1364		11/15/10 11:38
Surrogate: Dibromofluoromethane		54.0		ug/kg	50.0	108%	75 - 125			10K1364		11/15/10 11:38
Surrogate: Toluene-d8		46.2		ug/kg	50.0	92%	76 - 129			10K1364		11/15/10 11:38
Surrogate: 4-Bromofluorobenzene		50.9		ug/kg	50.0	102%	67 - 147			10K1364		11/15/10 11:38
10K2696-BSD1												
Benzene		46.3		ug/kg	50.0	93%	78 - 126	4	50	10K2696		11/12/10 11:40
Ethylbenzene		50.6		ug/kg	50.0	101%	79 - 130	4	50	10K2696		11/12/10 11:40
Naphthalene		42.2		ug/kg	50.0	84%	72 - 150	3	50	10K2696		11/12/10 11:40
Toluene		49.5		ug/kg	50.0	99%	76 - 126	3	50	10K2696		11/12/10 11:40
Xylenes, total		150		ug/kg	150	100%	80 - 130	4	50	10K2696		11/12/10 11:40
Surrogate: 1,2-Dichloroethane-d4		40.8		ug/kg	50.0	82%	67 - 138			10K2696		11/12/10 11:40
Surrogate: Dibromofluoromethane		46.7		ug/kg	50.0	93%	75 - 125			10K2696		11/12/10 11:40
Surrogate: Toluene-d8		51.9		ug/kg	50.0	104%	76 - 129			10K2696		11/12/10 11:40
Surrogate: 4-Bromofluorobenzene		51.1		ug/kg	50.0	102%	67 - 147			10K2696		11/12/10 11:40



10179 Highway 78 Ladson, SC 29456

Tom McElwee

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Work Order:

NTK0932

Project Name:

Laurel Bay Housing Project

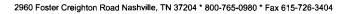
Project Number:

[none]

Received: 11/06/10 08:30

PROJECT QUALITY CONTROL DATA Matrix Spike

										.
Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by 1	EPA Method 8260)B								
10K1364-MS1										
Benzene	1.69	2.78		mg/kg wet	2.55	42%	42 - 141	10K1364	NTK0386-03RE 3	11/15/10 20:41
Ethylbenzene	0.306	2.83		mg/kg wet	2.55	99%	21 - 165	10K1364	NTK0386-03RE 3	11/15/10 20:41
Naphthalene	0.467	2.95		mg/kg wet	2.55	98%	10 - 160	10K1364	NTK0386-03RE 3	11/15/10 20:41
Toluene	1.82	2.85	M2	mg/kg wet	2.55	40%	45 - 145	10K1364	NTK0386-03RE	11/15/10 20:41
Xylenes, total	2.45	9.73		mg/kg wet	7.64	95%	31 - 159	10K1364	NTK0386-03RE 3	11/15/10 20:41
Surrogate: 1,2-Dichloroethane-d4		43.2		ug/kg	50.0	86%	67 - 138	10K1364	NTK0386-03RE 3	11/15/10 20:41
Surrogate: Dibromofluoromethane		50.6		ug/kg	50.0	101%	75 - 125	10K1364	NTK0386-03RE 3	11/15/10 20:41
Surrogate: Toluene-d8		46.2		ug/kg	50.0	92%	76 - 129	10K1364	NTK0386-03RE 3	11/15/10 20:41
Surrogate: 4-Bromofluorobenzene		52.2		ug/kg	50.0	104%	67 - 147	10K1364	NTK0386-03RE 3	11/15/10 20:41
10K2696-MS1										
Benzene	ND	2.26		mg/kg wet	2.04	111%	42 - 141	10 K2 696	NTK0828-08RE 2	11/12/10 23:04
Ethylbenzene	0.100	2.37		mg/kg wet	2.04	111%	21 - 165	10K2696	NTK0828-08RE 2	11/12/10 23:04
Naphthalene	3.43	6.02		mg/kg wet	2.04	127%	10 - 160	10K2696	NTK0828-08RE 2	11/12/10 23:04
Toluene	ND	2.15		mg/kg wet	2.04	105%	45 - 145	10K2696	NTK0828-08RE 2	11/12/10 23:04
Xylenes, total	0.0858	6.94		mg/kg wet	6.13	112%	31 - 159	10K2696	NTK0828-08RE 2	11/12/10 23:04
Surrogate: 1,2-Dichloroethane-d4		53.5		ug/kg	50.0	107%	67 - 138	10K2696	NTK0828-08RE 2	11/12/10 23:04
Surrogate: Dibromofluoromethane		47.5		ug/kg	50.0	95%	75 - 125	10K2696	NTK0828-08RE 2	11/12/10 23:04
Surrogate: Toluene-d8		49.7		ug/kg	50.0	99%	76 - 129	10K2696	NTK0828-08RE 2	11/12/10 23:04
Surrogate: 4-Bromofluorobenzene		41.0		ug/kg	50.0	82%	67 - 147	10K2696	NTK0828-08RE 2	11/12/10 23:04
Polyaromatic Hydrocarbons by E	CPA 8270D									
10K1764-MS1	NID	1 20		ma/l	1 02	750/	42 120	1071764	NITUOSCO OI	11/15/10 11:50
Acenaphthene	ND	1.38		mg/kg dry	1.83	75%	42 - 120	10K1764	NTK0863-01	11/15/10 11:58
Anthrocono	ND ND	1.39		mg/kg dry	1.83	76%	32 - 120	10K1764	NTK0863-01	11/15/10 11:58
Anthracene	ND	1.50		mg/kg dry	1.83	82%	10 - 200	10K1764	NTK0863-01	11/15/10 11:58
Benzo (a) anthracene	ND	1.38		mg/kg dry	1.83	75%	41 - 120	10K1764	NTK0863-01	11/15/10 11:58
Benzo (a) pyrene	ND ND	1.53		mg/kg dry	1.83	83%	33 - 121	10K1764	NTK0863-01	11/15/10 11:58
Benzo (b) fluoranthene	ND	1.52		mg/kg dry	1.83	83%	26 - 137	10K1764	NTK0863-01	11/15/10 11:58





10179 Highway 78 Ladson, SC 29456

Tom McElwee

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Work Order:

NTK0932

Project Name:

Laurel Bay Housing Project

Project Number: Received: [none] 11/06/10 08:30

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

			Mai	rix Spike -	Cont.					
Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Polyaromatic Hydrocarbons by	EPA 8270D									
10K1764-MS1										
Benzo (g,h,i) perylene	ND	1.46		mg/kg dry	1.83	80%	21 - 124	10K1764	NTK0863-01	11/15/10 11:58
Benzo (k) fluoranthene	ND	1.53		mg/kg dry	1.83	84%	14 - 140	10K1764	NTK0863-01	11/15/10 11:58
Chrysene	ND	1.40		mg/kg dry	1.83	76%	28 - 123	10K1764	NTK0863-01	11/15/10 11:58
Dibenz (a,h) anthracene	ND	1.49		mg/kg dry	1.83	81%	25 - 127	10K1764	NTK0863-01	11/15/10 11:58
Fluoranthene	ND	1.48		mg/kg dry	1.83	81%	38 - 120	10K1764	NTK0863-01	11/15/10 11:58
Fluorene	ND	1.43		mg/kg dry	1.83	78%	41 - 120	10K1764	NTK0863-01	11/15/10 11:58
Indeno (1,2,3-cd) pyrene	ND	1.48		mg/kg dry	1.83	81%	25 - 123	10K1764	NTK0863-01	11/15/10 11:58
Naphthalene	ND	1.17		mg/kg dry	1.83	64%	25 - 120	10K1764	NTK0863-01	11/15/10 11:58
Phenanthrene	ND	1.55		mg/kg dry	1.83	84%	37 - 120	10K1764	NTK0863-01	11/15/10 11:58
Pyrene	ND	1.45		mg/kg dry	1.83	79%	29 - 125	10K1764	NTK0863-01	11/15/10 11:58
1-Methylnaphthalene	ND	1.09		mg/kg dry	1.83	60%	19 - 120	10K1764	NTK0863-01	11/15/10 11:58
2-Methylnaphthalene	ND	1.17		mg/kg dry	1.83	64%	11 - 120	10 K 1764	NTK0863-01	11/15/10 11:58
Surrogate: Terphenyl-d14		0.00110	Z11	mg/kg dry	1.83	0%	18 - 120	10K1764	NTK0863-01	11/15/10 11:58
Surrogate: 2-Fluorobiphenyl		0.000734	Z11	mg/kg dry	1.83	0%	14 - 120	10K1764	NTK0863-01	11/15/10 11:58
Surrogate: Nitrobenzene-d5		0.0895	Z11	mg/kg dry	1.83	5%	17 - 120	10K1764	NTK0863-01	11/15/10 11:58



10179 Highway 78

Ladson, SC 29456 Tom McElwee

Attn

Work Order:

NTK0932

Project Name:

Laurel Bay Housing Project

Project Number:

[none]

Received:

11/06/10 08:30

PROJECT QUALITY CONTROL DATA Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by l	EPA Method 8	3260B										
10K1364-MSD1 Benzene	1.69	2.60	M2	mg/kg wet	2.55	35%	42 - 141	7	50	10K1364	NTK0386-03R	11/15/10 21:11
Ethylbenzene	0.306	2.68		mg/kg wet	2.55	93%	21 - 165	5	50	10K1364	E3 NTK0386-03R	11/15/10 21:11
Naphthalene	0.467	2.89		mg/kg wet	2.55	95%	10 - 160	2	50	10K1364	E3 NTK0386-03R	11/15/10 21:11
Toluene	1.82	2.63	M2	mg/kg wet	2.55	32%	45 - 145	8	50	10K1364	E3 NTK0386-03R	11/15/10 21:11
Xylenes, total	2.45	9.22		mg/kg wet	7.64	89%	31 - 159	5	50	10K1364	E3 NTK0386-03R	11/15/10 21:11
Surrogate: 1,2-Dichloroethane-d4		43.9		ug/kg	50.0	88%	67 - 138			10K1364	E3 NTK0386-03R	11/15/10 21:11
Surrogate: Dibromofluoromethane		50.0		ug/kg	50.0	100%	75 - 125			10K1364	E3 NTK0386-03R	11/15/10 21:11
Surrogate: Toluene-d8		45.9		ug/kg	50,0	92%	76 - 129			10K1364	E3 NTK0386-03R	11/15/10 21:11
Surrogate: 4-Bromofluorobenzene		52.9		ug/kg	50.0	106%	67 - 147			10K1364	E3 NTK0386-03R E3	11/15/10 21:11
10K2696-MSD1 Benzene	ND	2.29		mg/kg wet	2.04	112%	42 - 141	1	50	10K2696	NTK0828-08R	11/12/10 23:33
Ethylbenzene	0.100	2.36		mg/kg wet	2.04	111%	21 - 165	0.3	50	10 K 2696	E2 NTK0828-08R	11/12/10 23:33
Naphthalene	3.43	6.06		mg/kg wet	2.04	129%	10 - 160	0.7	50	10K2696	E2 NTK0828-08R	11/12/10 23:33
Toluene	ND	2.09		mg/kg wet	2.04	102%	45 - 145	3	50	10K2696	E2 NTK0828-08R E2	11/12/10 23:33
Xylenes, total	0.0858	6.88		mg/kg wet	6.13	111%	31 - 159	0.9	50	10K2696	NTK0828-08R E2	11/12/10 23:33
Surrogate: 1,2-Dichloroethane-d4		54.8		ug/kg	50.0	110%	67 - 138			10K2696	NTK0828-08R E2	11/12/10 23:33
Surrogate: Dibromofluoromethane		49.0		ug/kg	50.0	98%	75 - 125			10K2696	NTK0828-08R E2	11/12/10 23:33
Surrogate: Toluene-d8		48.7		ug/kg	50.0	97%	76 - 129			10K2696	NTK0828-08R E2	11/12/10 23:33
Surrogate: 4-Bromofluorobenzene		40.6		ug/kg	50.0	81%	67 - 147			10K2696	NTK0828-08R E2	11/12/10 23:33
Polyaromatic Hydrocarbons by E	PA 8270D											
10K1764-MSD1 Acenaphthene	ND	1.29		mg/kg dry	1.82	71%	42 - 120	7	40	10K1764	NTK0863-01	11/15/10 12:19
Acenaphthylene	ND	1.29		mg/kg dry	1.82	71%	32 - 120	7	30	10K1764	NTK0863-01	11/15/10 12:19
Anthracene	ND	1.33		mg/kg dry	1.82	73%	10 - 200	12	50	10K1764	NTK0863-01	11/15/10 12:19
Benzo (a) anthracene	ND	1.24		mg/kg dry	1.82	68%	41 - 120	10	30	10K1764	NTK0863-01	11/15/10 12:19
Benzo (a) pyrene	ND	1.31		mg/kg dry	1.82	72%	33 - 121	15	33	10K1764	NTK0863-01	11/15/10 12:19
Benzo (b) fluoranthene	ND	1.28		mg/kg dry	1.82	70%	26 - 137	17	42	10K1764	NTK0863-01	11/15/10 12:19
Benzo (g,h,i) perylene	ND	1.26		mg/kg dry	1.82	69%	21 - 124	15	32	10K1764	NTK0863-01	11/15/10 12:19
Benzo (k) fluoranthene	ND	1.36		mg/kg dry	1.82	75%	14 - 140	12	39	10K1764	NTK0863-01	11/15/10 12:19





10179 Highway 78 Ladson, SC 29456

Tom McElwee

Attn

Work Order:

NTK0932

Project Name:

Laurel Bay Housing Project

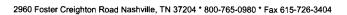
Project Number:

[none]

Received: 11/06/10 08:30

PROJECT QUALITY CONTROL DATA Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Polyaromatic Hydrocarbons by E	PA 8270D											
10K1764-MSD1												
Chrysene	ND	1.20		mg/kg dry	1.82	66%	28 - 123	15	34	10K1764	NTK0863-01	11/15/10 12:19
Dibenz (a,h) anthracene	ND	1.27		mg/kg dry	1.82	70%	25 - 127	16	31	10K1764	NTK0863-01	11/15/10 12:19
Fluoranthene	ND	1.30		mg/kg dry	1.82	71%	38 - 120	13	35	10K1764	NTK0863-01	11/15/10 12:19
Fluorene	ND	1.30		mg/kg dry	1.82	72%	41 - 120	9	37	10K1764	NTK0863-01	11/15/10 12:19
Indeno (1,2,3-cd) pyrene	ND	1.27		mg/kg dry	1.82	70%	25 - 123	15	32	10K1764	NTK0863-01	11/15/10 12:19
Naphthalene	ND	1.08		mg/kg dry	1.82	59%	25 - 120	8	42	10K1764	NTK0863-01	11/15/10 12:19
Phenanthrene	ND	1.35		mg/kg dry	1.82	74%	37 - 120	13	32	10K1764	NTK0863-01	11/15/10 12:19
Pyrene	ND	1.27		mg/kg dry	1.82	70%	29 - 125	13	40	10K1764	NTK0863-01	11/15/10 12:19
1-Methylnaphthalene	ND	1.02		mg/kg dry	1.82	56%	19 - 120	7	45	10K1764	NTK0863-01	11/15/10 12:19
2-Methylnaphthalene	ND	1.09		mg/kg dry	1.82	60%	11 - 120	7	50	10K1764	NTK0863-01	11/15/10 12:19
Surrogate: Terphenyl-d14		0.000364	Z11	mg/kg dry	1.82	0%	18 - 120			10K1764	NTK0863-01	11/15/10 12:19
Surrogate: 2-Fluorobiphenyl		0.000729	Z11	mg/kg dry	1.82	0%	14 - 120			10K1764	NTK0863-01	11/15/10 12:19
Surrogate: Nitrobenzene-d5		0.0831	Z11	mg/kg dry	1.82	5%	17 - 120			10K1764	NTK0863-01	11/15/10 12:19





10179 Highway 78

Ladson, SC 29456

Tom McElwee

Work Order:

NTK0932

Project Name:

Laurel Bay Housing Project

Project Number:

Received:

[none]

11/06/10 08:30

CERTIFICATION SUMMARY

TestAmerica Nashville

Attn

Method	Matrix	AIHA	Nelac	South Carolina		
SW846 8260B	Soil	N/A	X	X		
SW846 8270D	Soil		X	X		
SW-846	Soil					





10179 Highway 78

Ladson, SC 29456 Tom McElwee

Attn

Work Order:

NTK0932

Project Name:

Laurel Bay Housing Project

Project Number:

[none]

11/06/10 08:30

Received:

DATA QUALIFIERS AND DEFINITIONS

J Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

Concentrations within this range are estimated.

M2 The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

Z11 Surrogate low but all targets within method criteria. No effect

on data.

ND Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

TestAmer Client Name/Account #	gen i Savanini Mir Historijanov	Nashville 2960 Fos Nashville	ter Creiç	Jhton				Free:	800-	726-0 765-0 726-3	980						metho		rposes	k being ?	oper an	ted for	r	V		No
		70																		•			•	Yes		
	10179 Highway Ladson, SC 29				·									•		 .	~~			Emorc	ement /	vcuon r		Yes		No
													-		SIT	e State		00								
Project Manager: Telephone Number:		THEM. ITCH	vee(3eec	inc.ne			(55)	,51	9	79		cio	\	•		PO		<u>UU,</u>	2							
Sampler Name: (Print)		o# <	SIA		'	-ax No	13	رد	במ			76	"	•		auote #										
Sampler Signature:		27	MA	<u>"/</u>										•		-		Bay H	DURING	Project	-					
omper orginetire.						_	Desc	servat		~	_		Matrix		, - 1	oject #				nalyze i	Ene					Ī
Sample ID / Description \$29	11/1/0 11/1/10 11/2/10 11/3/10	1045 1545 1545 1545 1545	COMMINER SHIPPED	XXX Gusp	Composite Field Filtered	eo)	200	atic (Yellow Label)	H,SO, Gisse(Yellow Label)	C C C C C None (Specify) Marketic	Groundwater	in the second	Studge	X X X X X X X X X X X X X X X X X X X		X X X	i i					NTI	c 09	32-	01 02 03 05 05	RUSH TAT (Pre-Schedule)
839 AZALEA	11/3/10	1575	5	X			ス			21				X	Lx	X		<u> </u>	<u> </u>		<u> </u>				06	L
830 AZA/EA	11/4/10	1030	5	X			12	\perp		31				X	X	X	$oldsymbol{\perp}$		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	67	L
343 AZALEA	11/4/10	1530	5	X		\sqcup	12			77	Ц	\perp		X	LX	X			<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	ــــــــــــــــــــــــــــــــــــــ	08	L
						↓			Ц		Ц	4		LL	1_		ــــ	<u> </u>	<u> </u>	↓	↓	_	↓	—	<u> </u>	L
Special instructions:	11/5/1	0	Time 090	0	Received I	er (od of Sh	Y	nt:	1			Date	FEDI	Ti	ne	Labo		erature	Upon	Receip ispace?		c	<u> </u>)	Y
Relinquished by	Date		Time	R	eceived i	y Test	America:						Date		Ti	ne	7									

11-6-10

0630

ATTACHMENT A



NON-HAZARDOUS MANIFEST

		1. Generator's	US EPA	A ID No. N	lanifest Doc	No.	2. Page 1	of								
	NON-HAZARDOUS MANIFEST							1								
	3. Generator's Mailing Address:		Gene	erator's Site Address (If	different than m	ailine)	A. Manife	est Number								
	MCAS, BEAUFORT		000			ш	100	MNA	00316	. 700	!					
	LAUREL BAY HOUSING						<u> </u>	,	Generator's							
	BEAUFORT, SC 29907							b. State	Generators	10						
	· ·	28-6461	Ì													
	5. Transporter 1 Company Name			6. US EPA	D Number											
	EEG, INC.						C. State T	ransporter's	ID		_					
							D. Transp	orter's Phone	e 843-8	379-041	1					
	7. Transporter 2 Company Name			8. US EPA	D Number											
								ransporter's								
	9. Designated Facility Name and Site	Addross		10. US EPA	ID Number		F. Transp	orter's Phone	<u>:</u>							
	HICKORY HILL LANDFILL	Audress		10. 03 274	ib ivalliber		G. State F	acility ID		· · · · <u>-</u> · · · · ·						
	2621 LOW COUNTRY ROAD								942 0	843-987-4643						
	RIDGELAND, SC 29936						H. State F	acility Phone	043-3	707-404	3					
G	11. Description of Waste Materials					intainers	13. Total	14. Unit	1. M	lisc. Commen	its					
E	a. HEATING OIL TANKS FILLED	WITH SAND			No.	Туре	Quantity	Wt./Vol.								
N	a. HEATING OIL TAINES FIELED	WITH SAIND					ĺ	1								
E R	WM Profil	le# 1026559	SC .			 	-		 							
A	b.				1											
Ţ																
O R	WM Profile #						 									
	c.								1							
	WM Profile #					ļ										
	d.					}										
						<u> </u>										
	WM Profile #					<u> </u>		<u> </u>								
ľ	J. Additional Descriptions for Materia	als Listed Above			K. Dispos	al Locatio	n									
					Celi			. —————————————————————————————————————	Level	Level						
					Grid				1							
	15. Special Handling Instructions and			,	<i>(</i>)	037	<i>i</i>) (4	. 10) 5.PC	First	104					
İ	Clast's Proms	39	526	1 Azalia	47	السيام ال	Azale	<i>H</i> 90			, , , ,					
	122 AZALER	1 3) .	325	1 AZAICH	5)	824	Azale	14								
l	Purchase Order #			EMERGENCY CO	NTACT / PH	ONE NO.:										
	16. GENERATOR'S CERTIFICATE:										ĺ					
-	I hereby certify that the above-describ								iave been ful	lly and	l					
ł	accurately described, classified and pa Printed Name	ckaged and are i	n prop	Signature "On behavior		rding to a	pplicable regu	lations.	Month	Day	Year					
ļ		The state of	N.	Signature Off Degin	01 1				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	. (1					
1	17. Transporter 1 Acknowledgement of	of Receipt of Mai	erials				Sag.									
R A	Printed Name			Signature		1			Month	Day	Year					
N S	James Dalla	11		1 yerne	حتلإ	<u>uch v</u>	J		12		120					
P O R	18. Transporter 2 Acknowledgement of	of Receipt of Mai	terials	·												
T E	Printed Name			Signature					Month	Day	Year					
R																
F	19. Certificate of Final Treatment/Disp															
A	I certify, on behalf of the above listed t				ledge, the al	ove-desci	ribed waste w	as managed	in complianc	e with all						
	applicable laws, regulations, permits a 20. Facility Owner or Operator: Certif				overed by M	ais manifa	c+									
+	Printed Name		oi noi	Signature	overed by ti	ns manne	J.,		Month	Day	Year					
٧	Fillited Name		2 . 1	Jigilature		1		·	WOMEN	237	,					
- 1			5 5 7	1 / /	• *		1 · · · · · · · · · · · · · · · · · · ·		1 / / - /							

White-TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY Gold- TRANSPORTER #1 COPY Yellow- GENERATOR #1 COPY

Appendix C Regulatory Correspondence



BOARD: Paul C. Aughtry, III Chairman

Edwin H. Cooper, III Vice Chairman

Steven G. Kisner Secretary



BOARD: Henry C. Scott

M. David Mitchell, MD

Glenn A. McCall

Coleman F. Buckhouse, MD

C. Earl Hunter, Commissioner Promoting and protecting the health of the public and the environment

Bureau of Land and Waste Management Division of Waste Management

July 7, 2011

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

RE:

No Further Action

Laurel Bay Underground Storage Tank Assessment Report for:

•	824 Azalea	•	826 Azalea	•	827 Azalea	•	829 Azalea	•	884 Cobia
•	830 Azalea	•	833 Azalea	•	839 Azalea	•	843 Azalea	•	885 Cobia
•	937 Albacore	•	754 Althea	•	756 Althea	•	758 Althea	•	887 Cobia
•	836 Azalea	•	838 Azalea	•	845 Azalea	•	847 Azalea	•	881 Cobia
•	863 Azalea	•	867 Cobia	•	870 Cobia	•	871 Cobia	•	881 Cobia
•	877 Cobia	•	876 Cobia						

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received the above referenced Underground Storage Tanks (USTs) Assessment Report on February 17, 2011 for the addresses listed above.

The Department has reviewed the referenced assessment report and agrees there is no indication of soil or groundwater contamination on this 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 Corp 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 picketcn@dhec.sc.gov or 803-896-4131.

Sincerely,

Christi Pickett

Corrective Action Engineering Section Bureau of Land and Waste Management

South Carolina Department of Health and Environmental Control

cc:

Laurel Rhoten (via email) Craig Ehde (via email)