SUMMARY REPORT

44 BEECH STREET (FORMERLY 253 BEECH STREET)

LAUREL BAY MILITARY HOUSING AREA

MARINE CORPS AIR STATION BEAUFORT

BEAUFORT, SC

Revision: 0 Prepared for:

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

and



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

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Prepared by:



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

Contract Number: N62470-14-D-9016

CTO WE52

**JUNE 2021** 





# **Table of Contents**

1.0	INTRODUC	TION1						
1.1 1.2		ID INFORMATION						
2.0	SAMPLING ACTIVITIES AND RESULTS3							
2.1 2.2		VAL AND SOIL SAMPLING						
3.0	PROPERTY	STATUS						
4.0	REFERENCE	ES4						
		Table						
Table	1	Laboratory Analytical Results - Soil						
		Appendices						
Appen Appen Appen	dix B	Multi-Media Selection Process for LBMH UST Assesment Report Regulatory Correspondence						



**Summary Report** 44 Beech Street (Formerly 253 Beech Street) Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort June 2021

# List of Acronyms

bgs below ground surface

**BTEX** benzene, toluene, ethylbenzene, and xylenes

CTO Contract Task Order

COPC constituents of potential concern

IDIQ Indefinite Delivery, Indefinite Quantity

**IGWA Initial Groundwater Assessment** 

JV Joint Venture

CDM - AECOM

**Multimedia 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 44 Beech Street (Formerly 253 Beech Street). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

### 1.1 Background Information

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





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

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

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

### 1.2 UST Removal and Assessment Process

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

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

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





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

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

### 2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 44 Beech Street (Formerly 253 Beech Street). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 253 Beech Street* (MCAS Beaufort, 2008). The UST Assessment Report is provided in Appendix B.

### 2.1 UST Removal and Soil Sampling

On July 9, 2007, a single 280 gallon heating oil UST was removed from the front of the house at 44 Beech Street (Formerly 253 Beech Street). 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 5'0" bgs and a single soil sample was collected from that depth. An additional soil sample was collected from





the side of the excavation at a depth of 3'4". 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 44 Beech Street (Formerly 253 Beech Street) 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 44 Beech Street (Formerly 253 Beech Street). This NFA determination was obtained in a letter dated August 14, 2008. SCDHEC's NFA letter is provided in Appendix C.

#### 4.0 REFERENCES

Marine Corps Air Station Beaufort, 2008. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 253

Beech Street, Laurel Bay Military Housing Area, January 2008.

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 44 Beech Street (Formerly 253 Beech Street) Laurel Bay Military Housing Area Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	SCDHEC RBSLs (1)	Results Samples Collected 07/09/07							
Constitution	SOUTHER RUSES	253 Beech Bottom 01	253 Beech Side 02						
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)									
Benzene	0.003	ND	ND						
Ethylbenzene	1.15	0.000144	ND						
Naphthalene	0.036	0.000463	ND						
Toluene	0.627	ND	0.00034						
Xylenes, Total	13.01	ND	ND						
Semivolatile Organic Compounds Anal	yzed by EPA Method 8270D (mg/kg)								
Benzo(a)anthracene	0.66	0.0567	ND						
Benzo(b)fluoranthene	0.66	0.0554	ND						
Benzo(k)fluoranthene	0.66	0.0441	ND						
Chrysene	0.66	0.0943	ND						
Dibenz(a,h)anthracene	0.66	ND	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

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

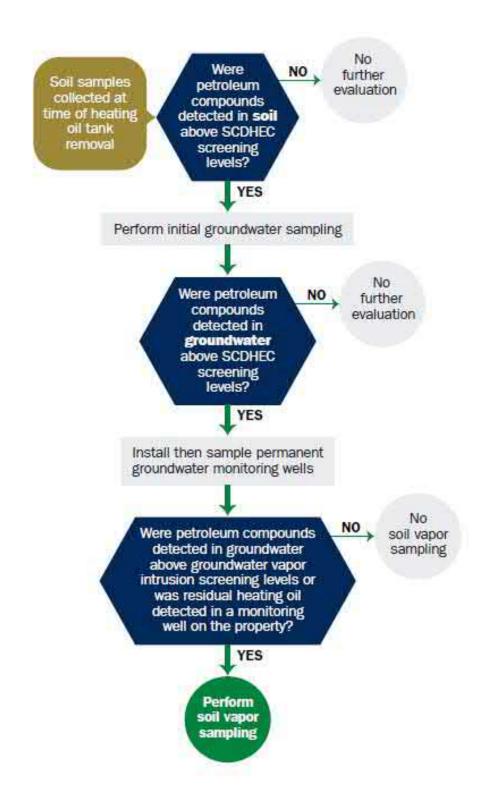
RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

<sup>&</sup>lt;sup>(1)</sup> 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



# Attachment 1 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) 896-6240

I. OWNERSHIP OF UST (S)	
Beaufort Military Comple Owner Name (Corporation, Individual, Public Agen	& FAMILY. Housing
Mailing Address LAURET BAY BO	VD .
Beaufort Scate	29906
	Zip Code  379-3305 Kyle BROAD FOOT  mber Contact Person
	- Marie I cison

II. SITE IDENTIFICATION AND LOCATION

N/A

Permit I.D. # Actus Lease Construction

Facility Name or Company Site Identifier

253 BEECH

Street Address or State Road (as applicable)

Beaufout, SC 29906

City ZIP Beaufout

County

# Attachment 2 III. INSURANCE INFORMATION

	Insura	nce Statement		
momes to pay for approp	lease reported to DHEC on riate site rehabilitation action of the existence or non-existence.	vities. Before na	ticination is allowed in th	re State Clean-un
Is there now, or had UST release? YE	as there ever been an insura	nce policy or otherne)	er financial mechanism th	at covers this
If you answ	vered YES to the above que	estion, please com	plete the following inform	nation:
	My policy provider is:			•
•	The policy deductible i	s:	<u>-</u>	
•	The policy limit is:		<del></del> .	
If you have this typ	pe of insurance, please incl	ude a copy of the	policy with this report.	
		And		
		7 Hug		
I de	o/do not (circle one) wish t	o participate in th	e Superb Program.	
en e	· ·			
IV. CERTI	FICATION (Tobosis	- J.L. 41 TICM		
	FICATION (To be sign			
I certify that I have person attached documents; and information, I believe tha	onally examined and am f that based on my inquiry at the submitted informati	amiliar with the of those individ on is true, accur	information submitted i uals responsible for obt ate, and complete.	in this and all aining this
Name (Type or print.)	·		·	
rame (Type of pint.)	•		•	
Signature		<u> </u>		
To be completed by	Notary Public:			,
Sworn before me this	day of	, 20		
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(Name)			•	·
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Notary Public for the state of Please affix State seal if you	of			1
· · · · · · · · · · · · · · · · · · ·	u ure commissionea outside	south Carolina	<i>*</i>	
<del></del>			<del></del>	

•	·· OST INFORMATION	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
A.	Product(ex. Gas, Kerosene)	#Z DIBE					<u> </u>
В.	Capacity. (ex. 1k, 2k)	280 G					
C.	Age						
D.	Construction Material(ex. Steel, FRP)	Steel					
E.	Month/Year of Last Use						
F.	Depth (ft.) To Base of Tank	60"					
G.	Spill Prevention Equipment Y/N	N		·			
H.	Overfill Prevention Equipment Y/N	N					<del></del>
I.	Method of Closure Removed Filled	Rejuosed					
J.	Date Tanks Removed/Filled	70 /-					
K.	Visible Corrosion or Pitting Y/N	7-9-6			<del></del>		
L.	Visible Holes Y/N	7					
•		7		ļ			
М.	Method of disposal for any USTs removed from the  Recycling - Scrap Stee		ich dispo	sal man	ifests)		
٧.	Method of disposal for any liquid petroleum, sludges disposal manifests)  TREATMENT FACT	, or wastewa	iters rem	noved fro	om the U	STs (attac	ch
•	Solidification Av	d Su	B tit	/E ]	DLA	and g	ref
	If any corrosion, pitting, or holes were observed, described the second of the second	· · · · · · · · · · · · · · · · · · ·					
7	PREVIOUSLY AND THE TANK.	WPS T	~O~	14165	JHE S	7/17 () 10/2	<u></u>

# VI. PIPING INFORMATION

		Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
A.	Construction Material(ex. Steel, FRP)	Steel					<u> </u>
В.	Distance from UST to Dispenser	NIA	<u></u>		<u></u>		
C.	Number of Dispensers	-		<u> </u>			
D.	Type of System Pressure or Suction	-0-					
E.	Was Piping Removed from the Ground? Y/N	Electra Pump					
F.	Visible Corrosion or Pitting Y/N	4					
3.	Visible Holes Y/N	2					
H	Age						
		N			·		
		<u> </u>			i	j	<del> </del>
	If any corrosion, pitting, or holes were observed, de	scribe the	location	and exte	nt for eac	h piping	run.
	Fill Pipe & Vent X	ipe	Wer	e C	odpor	DED.	
•		<u> </u>		:	<del></del> -		
		·			-	<del></del> .	<del></del> -
	VII. BRIEF SITE DESCRIPTION AND	HISTOI	RY				
	Home Heating Oil TA	NK -	Re	SIDE	NTIA	2_	
		-					
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		<del></del>		<u> </u>			

# VIII. 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.		*	
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.)		×	
C. Was water present in the UST excavation, soil borings, or trenches?  If yes, how far below land surface (indicate location and depth)?		メ	
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:		× .	
E. Was a petroleum sheen or free product detected on any excavation or boring waters?  If yes, indicate location and thickness.		*	

# IX. SAMPLE INFORMATION

SCDHEC Lab Certification Number DW: 84009002

В

B	<del></del>						
Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA
				<u> </u>	30.13	7:4055-1	
	BUTTOM	5	SAND	60"	7-9-07 1608	XX MANOGE	ND
2	SIDE	<u> </u>	SAND	L-10"	1608	ATMATONOG	ND
3						·	
4							
5							
6							<del></del>
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20			· ·				

\* = Depth Below the Surrounding Land Surface

# 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.

EPA Method 8260 B Volatile ORganic Companyor
EPA Method 8260 B Volatile ORGANIC Compounds - Preservative: 2ex Sodium Bisulfate lea
EPA METHOD 8270 Poly AROMATIC HYDROCARBONS
- No Preservative
DNe (1) SIDEWALF And ONE (1) Bottom
DNE (1) SiDEWALL And ONE (1) Bottom  SAmple were secured from tank excavation
Samples were stoned and shipped in AN
Samples were stoned and shipped in AN INSULATED COOLER W/ ICE.

# XI. RECEPTORS

		Yes	No
Α.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?		
	If yes, indicate type of receptor, distance, and direction on site map.		X
В.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		
	If yes, indicate type of well, distance, and direction on site map.		<i>i</i>
C.	Are there any underground structures (e.g., basements)  Located within 100 feet of the UST system?		
	If yes, indicate type of structure, distance, and direction on site map.		1
D.	Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination?		
	If yes, indicate the type of utility, distance, and direction on the site map.		<b>√</b>
E.	Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete?		
	If yes, indicate the area of contaminated soil on the site map.		

# SUMMARY OF ANALYSIS RESULTS

NIA

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

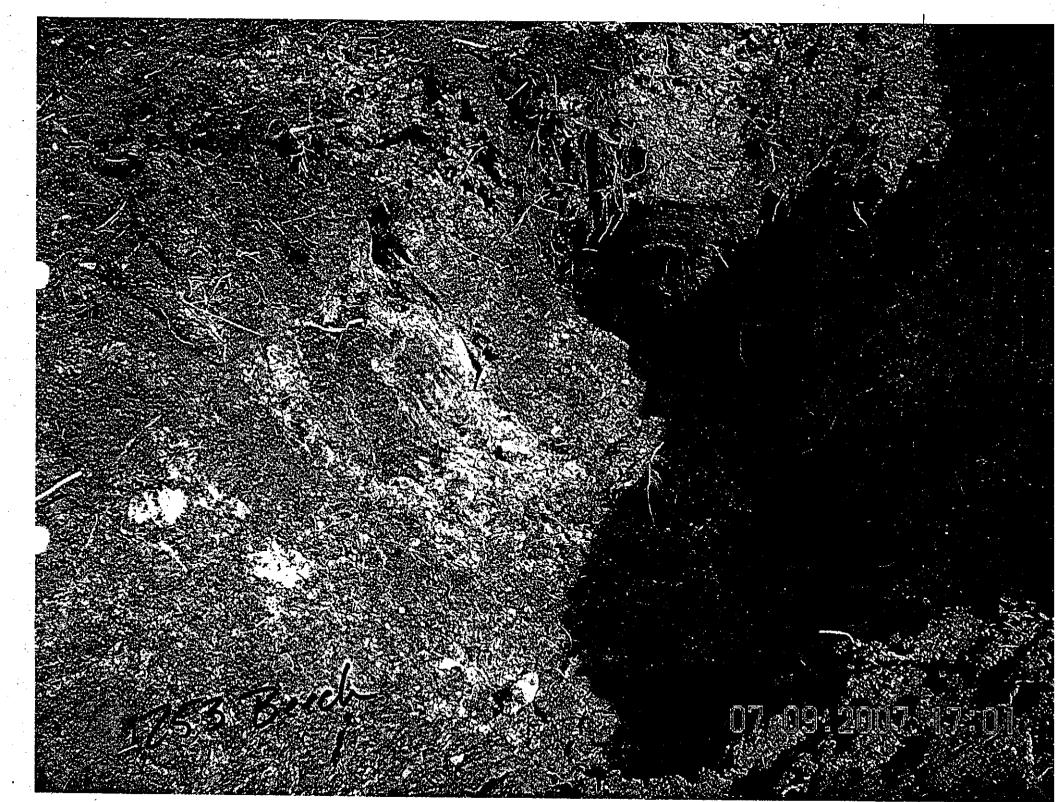
CoC	00.	T		<u></u>	7	T T	On the to	Howing page
<u> </u>	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8
Benzene		1.						
Toluene		,		<del> </del>		<del> </del>	-	<del> </del>
Ethylbenzene				<del> </del>	<del> </del>	<del> </del>		ļ
Xylenes	Ţ <u> </u>		<del></del>					<del> </del>
Naphthalene			<del> </del>				 	<u> </u>
Benzo(a)anthracene						<u> </u>		
Benzo(b)flouranthene						<u> </u>	<del></del>	<u> </u>
Benzo(k)flouranthene								
Chrysene				<u> </u>		<u> </u>		
Dibenz(a,h)anthracene		<del></del>						
TPH (EPA 3550)		<u></u>			<u> </u>			<u>.                                    </u>
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SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16
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	SB-9	SB-9 SB-10	SB-9 SB-10 SB-11	SB-9 SB-10 SB-11 SB-12	SB-9 SB-10 SB-11 SB-12 SB-13	SB-9 SB-10 SB-11 SB-12 SB-13 SB-14	SB-9 SB-10 SB-11 SB-12 SB-13 SB-14 SB-15

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				
МТВЕ	40				
Naphthalene	25_	Physics of the policy of the same as			
Benzo(a)anthracene	10		:		
Benzo(b)flouranthene	10				
Benzo(k)flouranthene	10			-	
Chrysene	10				
Dibenz(a,h)anthracen e	10				
EDB	.05				
1,2-DCA	.05		,		
Lead	Site specific	:	,		



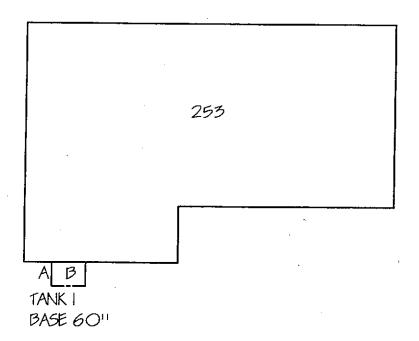






BEECH

17.03.2007 17.07



BEECH STREET

TANK I EXCAVATION

A-SOIL TEST SIDE SAMPLE @ 40" B-SOIL TEST BOTTOM SAMPLE @ 60"



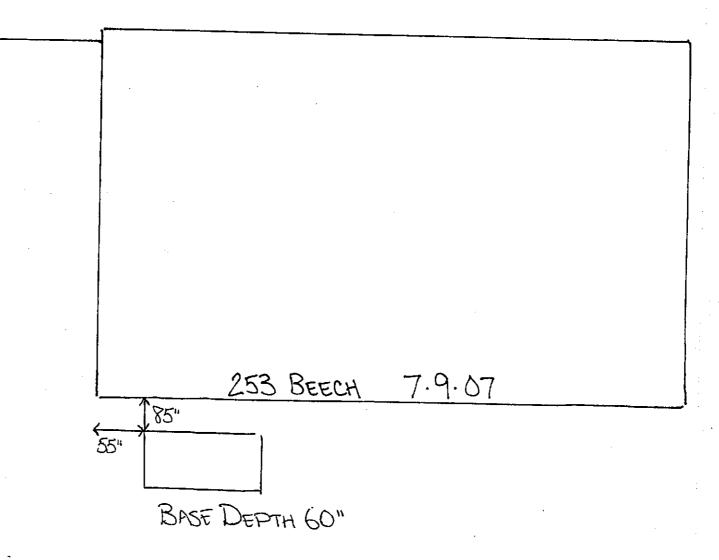
CUSTOMER:
BEAUFORT MILITARY COMPLEX FAMILY HOUSING
SITE ADDRESS:
253 BEECH STREET

SCALE:
1/16"=1'-0"
SUPPLIER:
EPG INC.
DATE:
9/22/2007

EPG INC.

P.O. BOX 1096

MOUNT PLEASANT, SC 29465-1096



# 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)

# Test/America

4310 East Anderson Road Orlando, FL 32812 \* 800-851-2560 \* Fax 407-856-0888

Client: EPG, INC.

Attn:

PO BOX 1096

MT PLEASANT, SC 29465

JOHN MAHONEY

Work Order:

OQG0325

Project:

LAUREL BAY

Project Number:

EP2362

Sampled: 07/09/07-07/11/07

Received: 07/17/07

### LABORATORY REPORT

Sample ID: 278 BEECH SIDE 02 - Lab Number: OQG0325-02 - Matrix: Solid/Soil

CAS#	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
	rganic Compounds by EPA M	fethod 8260B - C	ont.			*****					• • • • • • • • • • • • • • • • • • • •
91-20-3	Naphthalene '	0.0955	υ	ug/kg dry	0.0955	0.173	1	07/17/07 19:18	JWT	EPA 8260B	7G17048
108-88-3	Toluene	• 0.149	U	ug/kg dry	0.149	0.173	1	07/17/07 19:18	JWT	EPA 8260B	7G17048
1330-20-7	Xylenes, total	0.0898	U	ug/kg dry	0.0898	0.173	1	07/17/07 19:18	TWL	EPA 8260B	7G17048
	2-Dichloroethane-d4 (73-137%)	112 %									
Surrogate: 4-,	Bromofluorobenzene (59-118%)	97 %						,			
Surrogate: Di	bromofluoromethane (55-145%)	109 %									
Surrogate: To	luene-d8 (80-117%)	101 %									
Polynucles	er Aromatic Hydrocarbons by	EPA Method 82	70								
83-32-9	Acenaphthene	81.9	U	ug/kg dry	81.9	185	1	07/24/07 13:00	ЛS	EPA 8270C	7G19004
208-96-8	Acenaphthylene	108	U	ug/kg dry	108	185	1	07/24/07 13:00	JLS	EPA 8270C	7G19004
120-12-7	Anthracene	59.0	ប	ug/kg dry	59.0	185	1	07/24/07 13:00	ILS .	EPA 8270C	7G19004
56-55-3	Benzo (a) anthracene	20.0	υ	ug/kg dry	20.0	185	1	07/24/07 [3:00	ЛS	EPA 8270C	7G19004
205-99-2	Benzo (b) fluoranthene	19.5	U	ug/kg dry	19.5	185	1	07/24/07 13:00	лs	EPA 8270C	7G19004
207-08-9	Benzo (k) fluoranthene	19.5	U	ug/kg dry	19.5	185	1	07/24/07 13:00	ЛS	EPA 8270C	7G19004
191-24-2	Benzo (g.h.i) perylene	19.2	, U	ug/kg dry	19.2	185	1	07/24/07 13:00	ЛS	EPA 8270C	7G19004
50-32-8	Benzo (a) pyrene	22.7	Ū	ug/kg dry	22.7	185	1	07/24/07 13:00	ЛS	EPA 8270C	7G19004
90-12-0	1-Methylnaphthalene	92,8	υ	ug/kg dry	92.8	185	· 1	07/24/07 13:00	ЛLS	EPA 8270C	7G19004
218-01-9	Chrysene	22.1	υ	ug/kg dry	22.1	185	1	07/24/07 13:00	ЛS	EPA 8270C	7G19004
53-70-3	Dibenz (a,h) anthracene	24.3	U	ug/kg dry	24.3	185		07/24/07 13:00	ЛS	EPA 8270C	7G19004
206-44-0	Fluoranthene	26.6	U	ug/kg dry	26,6	185		07/24/07 13:00	ЛS	EPA 8270C	7G19004
86-73-7	Fluorene	72.4	บ	ug/kg dry	72.4	185		07/24/07 13:00	ЛS	EPA 8270C	7G19004
193-39-5	Indeno (1,2,3-ed) pyrene	23.9	U	ug/kg dry	23.9	185		07/24/07 13:00	ЛS	EPA 8270C	7G19004
91-57-6	2-Methylnaphthalene	78.8	U	ug/kg dry	78.8	185		07/24/07 13:00	лs	EPA 8270C	7G19004
91-20-3	Naphthalene	74.2	U ·	ug/kg dry	74.2	185		07/24/07 13:00	лѕ	EPA 8270C	7G19004 -
85-01-8	Phenanthrene	43.6	U	ug/kg dry	43.6	185		07/24/07 13:00	ЛS	EPA 8270C	7G19004 -
129-00-0	Pyrene	37.6	U	ug/kg dry	37.6	185		07/24/07 13:00	лs	EPA 8270C	
Surrogate: 2-Fi	luorobiphenyl (24-121%)	60 %	_	- <del></del>		103	•	024/07 [3,00	11.0	EFM 04/UC	7G19004
	obenzene-d5 (19-111%)	61 %									
Surrogate: Terp	ohenyl-d14 (44-171%)	99 %			•						

### LABORATORY REPORT

Sample ID: 253 BEECH BOTTOM 01 - Lab Number: OQG0325-03 - Matrix: Solid/Soil

TVTTLIGE	en de la constitución de la cons							<del></del>			
CAS#	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	Ву	Method	Batch
General (	Chemistry Parameters							•••••	••••		
NA	% Solids	77.1	Q	%.	0.100	0.100	1	07/18/07 16:50	RRP	EPA 160.3	7G18042
Volatile O	rganic Compounds by I	EPA Method 8260B	-								
71-43-2	Benzene	0.119	U	ug/kg dry	0.119	0.326	1	07/17/07 21:33	JWT	EPA 8260B	7G17048
00-41-4	Ethylbenzene	0.144	I	ug/kg dry	0.138	0,326	I	07/17/07 21:33	JWT	EPA 8260B	7G17048
1-20-3	Naphthalene	0.463		ug/kg dry	0.180	0.326	I	07/17/07 21:33	JWT	EPA 8260B	7G17048
08-88-3	Toluene	O.282	ช	ug/kg dry	0.282	0.326	1	07/17/07 21:33	JWT	EPA 8260B	7G17048
330-20-7	Xylenes, total	0.170	U	ug/kg dry	0.170	0.326	1	07/17/07 21:33	JWT	EPA 8260B	7G17048
iurrogate: 1,.	2-Dichloroethane-d4 (73-137%)	109 %					-			21.1.3100	7017040

TestAmerica - Orlando, FL

Shali Brown

Project Manager

# Testamerica ANALYTICAL TESTING CORPORATION

4310 East Anderson Road Orlando, FL 32612 \*800-851-2560 \* Fax 407-856-0686

Client: EPG, INC.

Attn:

PO BOX 1096

MT PLEASANT, SC 29465

JOHN MAHONEY

Work Order:

OQG0325

Project:

LAUREL BAY

Project Number:

EP2362

Sampled: 07/09/07-07/11/07

Received: 0

07/17/07

### LABORATORY REPORT

Sample ID: 253 BEECH BOTTOM 01 - Lab Number: OQG0325-03 - Matrix: Solid/Soil

CAS#	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	Ву	Method	Batch
Volatile (	Organic Compounds by EPA M	ethod 8260B - C	nnt	• • • • • • • • • • • • • • • • • • • •			<b>-</b>				· · · · · · · · · · · · · · · · · · ·
Surrogate: 4	i-Bromofluorobenzene (59-118%)	97%	J1144								
Surrogate: L	Dibromofluoromethane (55-145%)	107 %									
Surrogate: 1	Toluene-d8 (80-117%)	100 %									
Polynuck	ear Aromatic Hydrocarbons by	EPA Method 82	70								
83-32-9	Acenaphthene	96.0	υ	ug/kg dry	96.0	217	1	07/24/07 13:23	ЛLS	EPA 8270C	7G19004
208-96-8	Acenaphthylene	127	U	ug/kg dry	127	217	1	07/24/07 13:23	JLS	EPA 8270C	7G19004
120-12-7	Anthracene	69.1	υ	ug∕kg dry	69.1	217	1	07/24/07 13:23	JLS	EPA 8270C	7G19004 7G19004
56-55-3	Benzo (s) authracene	56,7	ı	ug/kg dry	23.5	217	- I	07/24/07 13:23	ЛS	EPA 8270C	7G19004
205-99-2	Benzo (b) fluoranthene	55,4	I	ug/kg dry	22.8	217	ī	07/24/07 13:23	ЛS	EPA 8270C	7G19004 7G19004
207-08-9	Benzo (k) fluorauthene	44.1	ı	ug/kg dry	22,8	217	1	07/24/07 13:23	JLS	EPA 8270C	
191-24-2	Benzo (g,h,i) perylene	22.5	ับ	ug/kg dry	22.5	217	1	07/24/07 13:23	JILS		7G19004
50-32-8	Benzo (a) nyrene	26.7	Ţŗ	ng/kg dry	26.7	217	1	07/24/07 13:23	11 C	EPA 8270C	7G19004
90-12-0	1-Methylnaphthalene	109	บ	ug/kg dry	109	217	1	07/24/07 13:23	лs	EPA 8270C	7019004
218-01-9	Chrysene	94.3	ı	ug/kg dry	25,9	217	1	07/24/07 13:23			7G19004
53-70-3	Dibenz (a,h) anthracene	28.5	บ	ug/kg dry	28.5	217	t		JLS	EPA 8270C	7G19004
206-44-0	Fluoranthene	67,0	ı	ug/kg dry	31.2	217	-	07/24/07 13:23	JLS	EPA 8270C	7G19004
86-73-7	Fluorene	84.8	U	ug/kg dry	84.8	217		07/24/07 13:23	JLS	EPA 8270C	7G19004
193-39-5	Indeno (1,2,3-cd) pyrene	28.1	U	ug/kg dry	28.I	217	1	07/24/07 13:23	JLS	EPA 8270C	7G19004
91-57-6	2-Methylnaphthalene	92,4	U	ug/kg dry	20.1 92.4		1	07/24/07 13:23	ЛS	EPA 8270C	7G19004
91-20-3	Naphthalene	87.0	บ		92.4 87.0	217	1	07/24/07 13:23	ЛS	EPA 8270C	7G19004
85-01-8	Phenanthreno	51.1		ug/kg dry		217		07/24/07 13:23	ЛS ,	EPA 8270C	7G19004
129-00-0	Pyrene	140	U	ug/kg dry	51.1	217		07/24/07 13:23	ЛLS	EPA 8270C	7G19004
	Fluorobiphenyl (24-121%)	71 %	1	ug/kg dry	44.0	217	1	07/24/07 13:23	ЛS	EPA 8270C	7G19004
	trobenzene-d5 (19-111%)		•								
=	rphenyl-d14 (44-171%)	71 %									
I DENIE. IEI	· poery-ur + (++-1/170)	120 %		•							

### LABORATORY REPORT

Sample ID: 253 BEECH SIDE 02 - Lab Number: OQG0325-04 - Matrix: Solid/Soil

CAS#	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	Ву	Method	Batch
General (	Chemistry Parameters	**********				***************************************	• • • • • • •	•••••	• • • • • • •	• • • • • • • • • •	
NA LIETULE	s on % Solids an action a market was a series		." <b>Q</b> : "	as <b>%</b> in a medali.	0.100	710 0,100 a sa	1	07/17/07 17:50	RRP	EPA 160.3	7G17049
Volatile (	Organic Compounds by EPA Met	hod 8260B		•	•						,
71-43-2	Benzene	0.130	υ.	ug/kg dry	0.130	0.355	1	07/17/07 21:49	TWI	EPA 8260B	7G17048
100-41-4	Ethylbenzene	0.150	ับ	ug/kg dry	0.150	0.355	1.	07/17/07 21:49	JWT	EPA 8260B	7G17048
91-20-3	Naphthalene	0.196	U	ug/kg dry	0.196	0.355	ı	07/17/07 21:49	JWT	EPA 8260B	7G17048
108-88-3	Toluene	0,340	I	ug/kg dry	0.306	0,355	1	07/17/07 21:49	JWT	EPA 8260B	7G17048
1330-20-7	Xylenes, total	0.184	U	ug/kg dry	0.184	0,355	1	07/17/07 21:49	JWT	EPA 8260B	7G17048
Surrogate: 1,	2-Dichloroethane-d4 (73-137%)	116%					•		3111	LF A 6200D	7017048
Surrogate: 4	Bromofluorobenzene (59-118%)	96 %		_							•
Surrogate: D	ibromofluoromethane (55-145%)	105 %									
Surrogate: To	oluene-d8 (80-117%)	100 %									

Polynuclear Aromatic Hydrocarbons by EPA Method 8270

TestAmerica - Orlando, FL

Shali Brown

Project Manager

# ANALYTICAL TESTING CORPORATION

4310 East Anderson Road Orlando, FL 32812 \* 800-851-2560 \* Fax 407-856-0886

Client: EPG, INC.

PO BOX 1096

MT PLEASANT, SC 29465

JOHN MAHONEY Attn:

Work Order:

OQG0325

Project:

LAUREL BAY

Project Number:

EP2362

Sampled: 07/09/07-07/11/07

Received: 07/17/07

### LABORATORY REPORT

Sample ID: 253 BEECH SIDE 02 - Lab Number: OQG0325-04 - Matrix: Solid/Soil

CAS#	Analyte	Result	Q	Units	MDI.	PQL	Dil Factor	Analyzed Date/Time	Ву	Method	Batch
Polynucl	lear Aromatic Hydrocarbons i	by EPA Method 82	70		•			• • • • • • • • • • • • • • • • • • • •		· · · · · · · · · · · · · · · · · · ·	· • • • • • · · · · · · · · · · · · · ·
83-32-9	Acenaphthene	90.0	บ	ug/kg dry	90.0	203	1	07/24/07 13:45	JLS	TD + page	######################################
208 <b>-9</b> 6-8	Acenaphthylene	119	U	ug/kg dry	119	203		07/24/07 13:45		EPA 8270C	7G19004
120-12-7	Anthracene	64.7	ŭ	ug/kg dry	64.7	203	1	07/24/07 13:45	ЛLS	EPA 8270C	7G19004
56-55-3	Benzo (a) anthracene	22.0	U	ug/kg dry	22.0	203			ЛS	EPA 8270C	7G19004
<b>205-9</b> 9-2	Benzo (b) fluoranthene	21.4	U	ug/kg dry	21.4	203		07/24/07 13:45	ЛS	EPA 8270C	7G19004
207-08-9	Benzo (k) fluoranthene	21.4	บ	ug/kg dry	21.4			07/24/07 13:45	ЛS	EPA 8270C	7G19004
191-24-2	Benzo (g,h,i) perylene	21.1	U	ug/kg dry	21.1	203	1	07/24/07 13:45	JLS	EPA 8270C	7G19004
50-32-8	Benzo (a) pyrene	25,0	บ	ug/kg dry		203	. 1	07/24/07 13:45	ILS	EPA 8270C	7G19004
90-12-0	1-Methylnaphthalene	102	Ū		25.0	203	1	07/24/07 13:45	ЛS	EPA 8270C	7G19004
218-01-9	Chrysene	24.3		ug/kg dry	102	203		07/24/07 13:45	ль	EPA 8270C	7G19004
53-70-3	Dibenz (a,h) anthracene	26.7	ช	ug/kg dry	24.3	203	1	07/24/07 13:45	ЛS	EPA 8270C	7G19004
206-44-0	Fluoranthene	29.2	<b>U</b>	ug/kg dry	26.7	203	1	07/24/07 [3:45	ЛLS	EPA 8270C	7G19004
86-73-7	Fluorene	79.5	<u></u>	ಗಳ್ಳಿಗಡೆ ಘನಿ	29,2	303	ī	07/24/07 13:45	II.S	EP.4 8270C	7G19004
193-39-5	Indeno (1,2,3-cd) pyrene	26.3	Ŭ	ug/kg dry	79,5	203	1	07/24/07 13:45	ЛLS	EPA 8270C	7G19004
91-57-6	2-Methylnaphthalene		U	ug/kg dry	26.3	203	1	07/24/07 [3:45	ЛS	EPA 8270C	7G19004
91-20-3	Naphthalene	86.6	ប	ug/kg dry	86.6	203	1	07/24/07 13:45	JLS	EPA 8270C	7G19004
85-01-8	Phenanthrene	81.5	บ	ug/kg dry	81.5	203	l	07/24/07 13:45	ЛS	EPA 8270C	7G19004
129-00-0	Pyrene	47.9	บ	ug/kg dry	47.9	203	1	07/24/07 13:45	JLS	EPA 8270C	7G19004
	•	41.2	U	ug/kg dry	41.2	203	I	07/24/07 13:45	ЛS	EPA 8270C	7G19004
	Fluorobiphenyl (24-121%)	63 %	•							_	
	trobenzene-d5 (19-111%)	64 %								•	
Surrogate: Te	rphenyl-d14 (44-171%)	100 %		•							

# LABORATORY REPORT

Sample ID: 259 BEECH BOTTOM 01 - Lab Number: OQG0325-05 - Matrix: Solid/Soil

CAS#			Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	Ву	Method	Batch
General C	hemistry Parameters	***********		••••••	• • • • • • • • • • • • • • • • • • • •						
NA	% Solids	88.1		%.	0.100	0.100	1	07/17/07 17:50	RRP	EPA 160.3	7517040
Volatile O	rganic Compounds by EPA M	ethod 8260B					-	07777 T7.50	Idd	EFA 100.3	7G17049
71-43-2	Benzene	3.11	RL2,U	ug/kg dry	3.11	8.49	50	07/18/07 07:14	Dim	ED 1 0044=	
100-41-4	Ethylbenzene	163		ug/kg dry	3,59	8.49			JWT	EPA 8260B	7G17048
91-20-3	Naphthalene	<del></del>	anto e angueros	ug/kg dry			50	07/18/07 07:[4	JWT	EPA 8260B	7G17048
108-88-3	Toluene	7,33			4.69	0,4,5	50	07/18/07 07:14	TWI	EPA 8260B	7G17048
1330-20-7	Xylenes, total		RL2,U	ug/kg dry	7.33	8.49	50	07/18/07 07:14	JWT	EPA 8260B	7G17048
	P-Dichloroethane-d4 (73-137%)	28.3	V	ug/kg dry	4.41	8.49	50	07/18/07 07:14	JWT	EPA 8260B	7G17048
		92 %	•						:	•	
	Bromofluorobenzene (59-118%)	103 %									
	bromofluoromethane (55-145%)	98 %									
Surrogate: Tol	luene-d8 (80-117%)	98 %		`	•			-			
Polynucica	r Aromatic Hydrocarbons by	EPA Method 82°	70						٠.		
83-32-9	Acenaphthene	84.0	U	ug/kg dry	84.0	190	1	07/24/07 14:08	TT 0	ED L SOSO	
208-96-8	Acenaphthylene	111	U	ug/kg dry	111	190			JLS_	EPA 8270C	7G19004
120-12-7	Anthracene	77.6		ug/kg dry	60.4			07/24/07 14:08	JLS	EPA 8270C	7G19004
56-55-3	Benzo (a) anthracene	73.4		•		190	1 .	07/24/07 14:08	ЛLS	EPA 8270C	7G19004
	- (-,	1974	I	ug∕kg dry	20,5	190	1	07/24/07 14:08	JLS	EPA 8270C	7G19004

TestAmerica - Orlando, FL

Shali Brown

Project Manager

Test/merica

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

ANA	LITICAL TESTING CO		. ~															is in	s work Con	being ( noliance	conduct Monit	ted for r	regulator	y purp	xoses?	
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	y/State/Zip Code									_							rroje	CINSIN	ا <u>ــــا</u> :د	1012	2/ N	2F/7			·	
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SAMPLE ID	<b>.</b>	<b>8</b>	ime Sampled	Ð	ield Filtered	SL-SL SW-G	<u>}</u>	ş   ≩   ⊋	Ê	, SO.	Methanol	9	Other (Specify)	/	图;	<u>₹</u> ₹/	· /	$I_{i}$								<u> </u>
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# Appendix C Regulatory Correspondence



BOARD: Paul C. Aughtry, III Chairman Edwin H. Cooper, III Vice Chairman Steven G. Kisner

Secretary



M. David Mitchell, MD

Glenn A. McCall

BOARD:

Henry C. Scott

Coleman F. Buckhouse, MD

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

14 August 2008

Beaufort Military Complex Family Housing ATTN: Kyle Broadfoot 1510 Laurel Bay Blvd. Beaufort, SC 29906

Re:

MCAS - Laurel Bay Housing - 253 Beech

Site ID # 04003

UST Closure Reports received 31 January 2008

No Further Action Beaufort County

Dear Mr. Broadfoot:

The Department has reviewed the referenced closure report. Based upon the geotechnical data in the referenced report, the soil samples are below risk based screening levels.

As the Department did not specifically request this data, and the work conducted at this site received no prior review by the Department, we cannot provide any comments on the completeness of the work performed or the overall environmental conditions of the site. Based on the information and analytical data submitted, there is no evidence to indicate that a violation of the Pollution Control Act has occurred. Consequently, no investigation will be required at this time. Please note, this statement pertains only to the data submitted and does not apply to other areas of the site and/or any other potential regulatory violations. Further, the Department retains the right to request further investigation if deemed necessary.

Should you have any questions, please contact me at 803-898-3553 (office phone), 803-898-2893 (fax) or bishopma@dhec.sc.gov.

Sincerely,

Michael Bishop (Hydrogeologist

Groundwater Quality Section

Bureau of Water

B. Thomas Knight, Manager Groundwater Quality Section

Bureau of Water

cc:

Region 8 District EQC (via pdf)

MCAS, Commanding Officer, Attention: S-4 NREAO (William Drawdy) (via pdf)

Technical File (pdf)

2600 Bull Street • Columbia, SC 29201 • Phone: (803) 898-3432 • www.scdhec.gov