SUMMARY REPORT
82 FOXGLOVE STREET (FORMERLY 1011 FOXGLOVE 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



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Prepared by:



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Contract Number: N62470-14-D-9016

CTO WE52

JUNE 2021



Table of Contents

1.0		TION1
1.1 1.2		ND INFORMATION
2.0	SAMPLING	ACTIVITIES AND RESULTS3
2.1 2.2		VAL AND SOIL SAMPLING
3.0	PROPERTY	STATUS4
4.0	REFERENC	ES4
.		Table
Table		Laboratory Analytical Results - Soil
		Appendices
Appen Appen Appen	dix B	Multi-Media Selection Process for LBMH UST Assesment Report Regulatory Correspondence





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 82 Foxglove Street (Formerly 1011 Foxglove 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 82 Foxglove Street (Formerly 1011 Foxglove Street). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1011 Foxglove Street* (MCAS Beaufort, 2008). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On July 18, 2007, a single 280 gallon heating oil UST was removed from the front landscaped bed area adjacent to the porch area at 82 Foxglove Street (Formerly 1011 Foxglove Street). The former UST location is indicated on the figures in the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 5'9" bgs and one sample was collected from that depth.





An additional soil sample was collected from the side of the excavation at a depth of 3'8" bgs. The samples were collected from the fill port side of the former UST to represent a worst case scenario.

Following UST removal, soil samples were collected from the base and the side 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 82 Foxglove Street (Formerly 1011 Foxglove 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 82 Foxglove Street (Formerly 1011 Foxglove 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 – 1011 Foxglove 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 82 Foxglove Street (Formerly 1011 Foxglove Street) Laurel Bay Military Housing Area Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	SCDHEC RBSLs (1)	Results Samples Collected 07/18/07			
		1011 Foxglove Bottom 01	1011 Foxglove Side 02		
Volatile Organic Compounds Analyze	d by EPA Method 8260B (mg/kg)				
Benzene	0.003	ND	ND		
Ethylbenzene	1.15	ND	ND		
Naphthalene	0.036	0.000477	ND		
Toluene	0.627	ND	ND		
Xylenes, Total	13.01	ND	ND		
Semivolatile Organic Compounds Ana	alyzed by EPA Method 8270D (mg/kg)				
Benzo(a)anthracene	0.66	ND	ND		
Benzo(b)fluoranthene	0.66	ND	ND		
Benzo(k)fluoranthene	0.66	ND	ND		
Chrysene	0.66	ND	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

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



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 Militare Owner Name (Corporation, Individu	ompley FAMILY	. Housing
Mailing Address	BAY BLVD.	
City Beaufort	State.	29906
843 Area Code	379-3305 Telephone Number	Zip Code Kyle BROAD FOOT Contact Person
		Contact Person

II. SITE IDENTIFICATION AND LOCATION

N/A

Permit I.D. # Actus Lease Construction

Facility Name or Company Site Identifier

Street Address or State Road (as applicable)

Beaufort SC 29906

City

ZIP

County

III. INSURANCE INFORMATION

Insura	ance Statement
	at Permit ID # may qualify to receive stativities. Before participation is allowed in the State Clean-txistence of an environmental insurance policy is required. The
Is there now, or has there ever been an insura UST release? YESNO (check	ance policy or other financial mechanism that covers this one)
If you answered YES to the above qu	testion, please complete the following information:
My policy provider is:	
The policy deductible	ic.
My policy provider is: The policy deductible The policy limit is:	15.
If you have this type of insurance, please incl	
	And
I do/do not (circle one) wish t	to participate in the Superb Program.
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
IV. CERTIFICATION (To be sign	ed by the UST owner/operator.)
Certity that I have personally small to a	amiliar with the information submitted in this and all y of those individuals responsible for obtaining this ion is true, accurate, and complete.
Name (Type or print.)	
ignature	
To be completed by Notary Public:	
worn before me this day of	, 20
(Name)	
otary Public for the state of	
otary Public for the state of	South Carolina

	v. USI INFORMATI	Tank i	ank 2	Tank 3	Tank 4	Tank 5	Tank 6
Α.	Product(ex. Gas, Kerosene)	#2					
B.	Capacity. (ex. 1k, 2k)						
C.	Age.				·		
D.	Construction Material(ex. Steel, FRP)	J 					
E.	Month/Year of Last Use	Steel					
F.	Depth (ft.) To Base of Tank.						
G.	Spill Prevention Equipment Y/N	101			-		
H.	Overfill Prevention Equipment Y/N						
	Method of Closure Removed Filled						
•	Date Tanks Removed/Filled	Removed	-				
	Visible Corrosion or Pitting Y/N	7-1807		-			
	Visible Holes Y/N	N			_ -		
Ŋ	Method of diaments	N					
_	Method of disposal for any USTs removed fr	om the ground (attac	h disposa	manifes	ts)		 -
	Recycling - SCRAP	Steel			 -		
M di:	Method of disposal for any liquid petroleum, sisposal manifests)	ludges or western					
-	Republic J	BROAD hups	rs remove	ed from t	he USTs	(attach	
	So lidificati	in + 50	64	tle.	D	1	01.
If a	any corrosion, pitting, or holes were observed	decoribe 4				rine	Die

VI. 'IPING INFORMATION

		Tank 1	Tank 2		7	7	7 -
A.	Construction Material(ex. Steel, FRP)		rank 2	Tank 3	Tank 4	Tank 5	Tank 6
B.	Distance from UST to Dispenser	Steel					
C.	Number of Dispensers	NIA					
D.	Type of System Pressure or Suction	-0-					
E.	Was Piping Removed from the Ground? Y/N	Electric					
F.	Visible Corrosion or Pitting Y/N	V					
G.	Visible Holes Y/N	1-					
H.	Age	N					
		LN					
							,
	If any corrosion, pitting, or holes were observed, des	le Welt	Z MIZ	Dec/	for each p	iping rui	1,
,	VII. BRIEF SITE DESCRIPTION AND F	HSTORY					
<u>-</u>	Home Heating Oil TAN	K- K	26517	DENT	IAL		
_					 -		
		·					-
			·				_
				 -			-

VIII. SIT CONDITIONS

	Yes	No	77
A. Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells?		140	Un
If yes, indicate depth and location on the site map.		メ	
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.)		X	,
C. Was water present in the UST excavation, soil borings, or trenches?			
If yes, how far below land surface (indicate location and depth)?		*	
. 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:	/ >		
Was a petroleum sheen or free product detected on any excavation		+-	
f yes, indicate location and thickness.	1		

SCDHEC Lab Certification Number DW: 8400900Z

•	
H	
·	٠

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA
1	BOTTOM	5	GUAZ	69"	11 1-18-157 1	ECHEVARRA	
	SIDE	5	SAND	44"		AMARKURY AMARKURY	ND
3						14. many	ND
5							
6							
7 .							
8							·
9							-
10							
12				<u> </u>			
13 .							
14							
15							
16 17							
18							
19							
20						j	

* = 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.

- Preservative: Zea Sodium Bisulfate lea
- Presendative: Zea Sodium Bisulfate 100
- ETH METHOD 82 to Poly Aromatic Hydra CARBONS
- No Preservative
DNE (1) SIDEWALL And ONE (1) Bottom
- SAmple were seemed from tank excavation
DNE (1) SIDEWALF And ONE (1) Bottom SAmple were secured from tank excavation SAmples were stoned and shipped in AN INSURATED COOLER W/ ICE.
INSURATED Cooled W/ ICE.

XI. RECEPTORS

		Yes	No
A.	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.		*
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.		1
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.		
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.		1
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

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

CoC			1 101 41	r COC in	the table	below and	d on the fo	llowing pa
Вепzепе	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8
Toluene	+	 -	 	 	 		,	
Ethylbenzene		 	 	 				
Xylenes					 	·		
Naphthalene	 							
Benzo(a)anthracene	+	 	-					
Benzo(b)flouranthene	+ =			-				
Benzo(k)flouranthene	 							
Chrysene			 					
Dibenz(a,h)anthracene								
PH (EPA 3550)								

					 _			
СоС	SB-9	SB-10	02.4	 	7			
Benzene		08-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16
Toluene	·			 	 			
Ethylbenzene					 			
Xylenes			· ·					
Naphthalene								
Benzo(a)anthracene								
Benzo(b)flouranthene			-					
Benzo(k)flouranthene								
Chrysene				·	•			
Dibenz(a,h)anthracene								
TPH (EPA 3550)								·

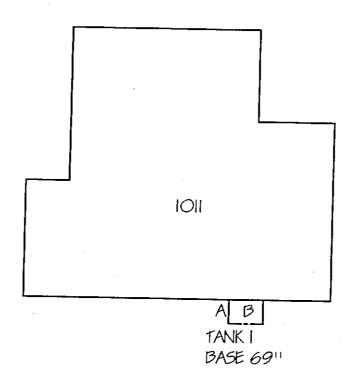
Enter the ground water analytical data for each sample for all CoC in the table below. If free product is present, indicate the measured thickness to the nearest 0.01 feet.

CoC	RBSL		W-2	W -3	W-4
	(µg/l)		""		
Free Product Thickness	None			·	
Benzene	. 5				
Toluene	1,000				<u> </u>
Ethylbenzene	700				
Xylenes	10,000	·			
Total BTEX	N/A				
MTBE	40				
Naphthalene	25		<u> </u>		
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				<u> </u>
Lead	Site specific				



1011 FOXGLOVE





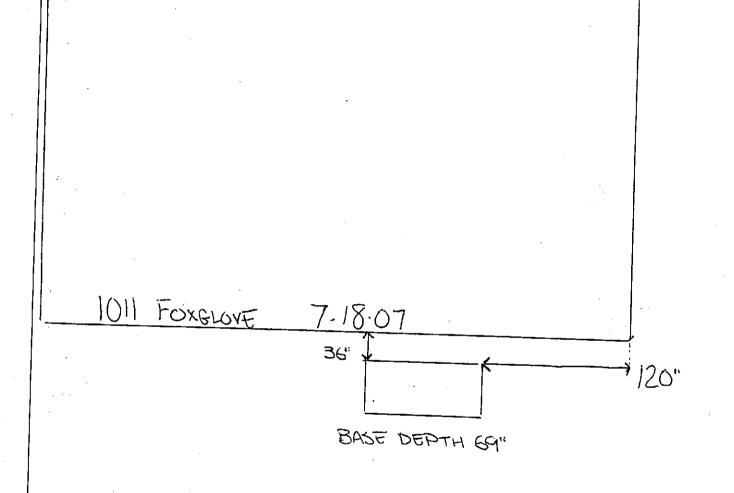
FOX GLOVE STREET

TANK I EXCAVATION

A-SOIL TEST SIDE SAMPLE @ 44" B-SOIL TEST BOTTOM SAMPLE @ 66"



CUSTOMER:		
	SCALE:	
BEAUFORT MILITARY COMPLEX FAMILY HOUSING	1/16"=1'-0"	EPG INC.
DIATOTORY WHISTING COMPANY TAMILY HOUSE	SUPPLIER:	D.A. BOW 1444
SITE ADDRESS:	EPG INC.	P.O. BOX 1096
1011 FOX GLOVE STREET	DATE:	MOUNT PLEASANT, SC 29465-1096
TOTA OF OVE STREET	9/22/2007	



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)



Client: EPG, INC.

PO BOX 1096

MT PLEASANT, SC 29465

Attn: JOHN MAHONEY

Work Order:

Project:

OQG0504

LAUREL BAY

Project Number: EP2362 Sampled: 07/16/07-07/20/07

Received: 07/25/07

LABORATORY REPORT

Sample ID: 276 BIRCH SIDE 02 - Lab Number: OQG0504-08 - Matrix: Solid/Soil

CAS#	Appled	OQG0504-08 - Matrix: Solid/Soil													
	Analyte lear Aromatic Hydrocarbor Naphthalene	Result ns by EPA Meth	Q od 827	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	Ву	Method	Batch				
85-01-8 129-00-0 Surrogate: 2 Surrogate: N	Phenanthrene Pyrene P-Fluorobiphenyl (24-121%) Vitrobenzene-d5 (19-111%) Terphenyl-d14 (44-171%)	86.8 668 17400 68 % 66 % 120 %	U	ug/kg dry ug/kg dry ug/kg dry	86.8 51.0 220	216 216 1080	1	07/31/07 00:12 07/31/07 00:12 07/31/07 10:40	REM	EPA 8270C EPA 8270C EPA 8270C	7G27018				
			I A DA	TO A TODA											

LABORATORY REPORT

Sample ID: 1011 FOXGLOVE BOTTOM 01 - Lab Number: OQG0504-09 - Matrix: Solid/Soil

Genera	Chemistry Darameters	Result		Q Units	MDL	PQL	Dil Facto		Ву	Method	Batch
	% Solids e Organic Compounds by EP Benzene	93.5 A Method 82	60B	%_	0.100	0.100	. 1	07/25/07 16:55	RRP	P EPA 160.3	7G2504
00-41-4 1-20-3 08-88-3 330-20-7 urrogate: urrogate: urrogate:	Ethylbenzene Naphthalene Toluene Xylenes, total 1,2-Dichloroethane-d4 (73-137%) 4-Bromofluorobenzene (59-118%) Dibromofluoromethane (55-145%) Toluene-d8 (80-117%)	0.0928 0.107 0.477 0.219 0.132 124 % 101 %	บ บ บ	ug/kg dry ug/kg dry ug/kg dry ug/kg dry ug/kg dry	0.107	0.254 0.254 0.254 0.254 0.254	1 1 1 1	07/26/07 00:26 07/26/07 00:26 07/26/07 00:26 07/26/07 00:26 07/26/07 00:26			B 7G26028 3 7G26028 3 7G26028 3 7G26028
8-96-8 0-12-7 55-3 i-99-2 -08-9 -24-2 32-8 12-0 01-9 0-3 44-0 3-7 39-5	lear Aromatic Hydrocarbons Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (b) fluoranthene Benzo (g,h,i) perylene Benzo (a) pyrene I-Methylnaphthalene Chrysene Dibenz (a,h) anthracene Fluoranthene Fluorene Indeno (1,2,3-cd) pyrene 2-Methylnaphthalene Naphthalene	by EPA Meth 79.2 105 57.0 19.3 18.8 18.8 18.5 22.0 89.7 21.4 23.5 25.7 69.9 23.1 76.2 71.8	U U U U U U U U U U U U U U U U U U U	ug/kg dry	22.0 89.7 21.4 23.5 25.7 69.9	179 179 179 179 179 179 179 179 179 179	1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1	07/31/07 00:34 07/31/07 00:34 07/31/07 00:34 107/31/07 00:34	REM	EPA 8270C EPA 8270C EPA 8270C	7G27018 7G27018 7G27018 7G27018 7G27018 7G27018 7G27018 7G27018 7G27018 7G27018 7G27018 7G27018 7G27018
	Phenanthrene Pyrene luorobiphenyl (24-121%)	71.8 42.1 36.3 55 %	ប	ug/kg dry ug/kg dry ug/kg dry	71.8 1 42.1 1	79 1 79 1 79 1	07/ 07/	/31/07 00:34 RE /31/07 00:34 RE	EM E	EPA 8270C EPA 8270C	7G27018 7G27018 7G27018 7G27018

TestAmerica - Orlando, FL Enid Ortiz For Shali Brown Project Manager



THE LEADER IN ENVIRONMENTAL TESTING

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

Dil

Factor

PQL

Analyzed

Date/Time

Client: EPG, INC.

CAS#

PO BOX 1096

MT PLEASANT, SC 29465

Attn: JOHN MAHONEY

Work Order:

Q

OQG0504

Project:

LAUREL BAY

Project Number:

Units

EP2362

MDL

Sampled: 07/16/07-07/20/07

Received: 07/25/07

Method

Batch

By

LABORATORY REPORT

Sample ID: 1011 FOXGLOVE BOTTOM 01 - Lab Number: OQG0504-09 - Matrix: Solid/Soil

Polynuclear Aromatic Hydrocarbons by EPA Method 8270 - Cont.

Surrogate: Nitrobenzene-d5 (19-111%)

Analyte

56%

Surrogate: Terphenyl-d14 (44-171%)

105%

Result

LABORATORY REPORT

Sample ID: 1011 FOXGLOVE SIDE 02 - Lab Number: OQG0504-10 - Matrix: Solid/Soil

CAS#	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	Ву	Method	Batch
General	Chemistry Parameters	-									
NA	% Solids	93.6		% .	0.100	0.100	1	07/25/07 16:55	RRP	EPA 160.3	7G25041
Volatile	Organic Compounds by EPA	Method 826	60B								, 325411
71-43-2	Benzene	0.0831	U	ug/kg dry	0.0831	0.227	1	07/26/07 00:43	JWT	EPA 8260B	7G26028
100-41-4	Ethylbenzene	0.0961	υ	ue/ke dry	0.0961	0.227	1	07/26/07 00:43		EPA 8260B	7G26028
91-20-3	Naphthalene	0.125	U	ug/kg dry	0.125	0.227	1	07/26/07 00:43	JWT	EPA 8260B	7G26028
108-88-3	Toluene	0.196	ប	ug/kg dry	0.196	0.227	1	07/26/07 00:43		EPA 8260B	7G26028
1330-20-7	Xylenes, total	0.118	U	ug/kg dry	0.118	0.227	1	07/26/07 00:43		EPA 8260B	7G26028
	1,2-Dichloroethane-d4 (73-137%)	123 %							• • • •	LI II OZOOD	7020026
	4-Bromofluorobenzene (59-118%)	105 %									
	Dibromofluoromethane (55-145%)	108 %									
	Toluene-d8 (80-117%)	100 %									
Polynucl	lear Aromatic Hydrocarbons l	by EPA Met	hod 827	70							
13-32-9	Acenaphthene	79.1	U	ug/kg dry	79.1	178	1	07/31/07 01:34	REM	EPA 8270C	7G27018
08-96-8	Acenaphthylene	104	ប	ug/kg dry	104	178	1	07/31/07 01:34	REM		7G27018 7G27018
20-12-7	Anthracene	56.9	Ū	ug/kg dry	56.9	178	1	07/31/07 01:34	REM	EPA 8270C	7G27018 7G27018
6-55-3	Benzo (a) anthracene	19.3 .	U	ug/kg dry	19.3	178	1	07/31/07 01:34	REM	EPA 8270C	7G27018
05-99-2	Benzo (b) fluoranthene	18.8	U	ug/kg dry	18.8	178	-	07/31/07 01:34	REM	EPA 8270C	
07-08-9	Benzo (k) fluoranthene	18.8	U	ug/kg dry	18.8	178		07/31/07 01:34	REM	EPA 8270C	7G27018
91-24-2	Benzo (g,h,i) perylene	18.5	ŭ	ug/kg dry	18.5	178		07/31/07 01:34	REM		7G27018
0-32-8	Benzo (a) pyrene	22.0	U	ug/kg dry	22.0	178		07/31/07 01:34	REM	EPA 8270C	7G27018
3-12-0	1-Methylnaphthalene	89.6	U	ug/kg dry	89.6	178		07/31/07 01:34		EPA 8270C	7G27018
18-01-9	Chrysene	21.3	U	ug/kg dry	21.3	178		•	REM	EPA 8270C	7G27018
3-70-3	Dibenz (a,h) anthracene	23.4	U	ug/kg dry	23.4	178		07/31/07 01:34	REM	EPA 8270C	7G27018
)6-44-0	Fluorauthène	25.7	U	ug/kg dry	25.7	178		07/31/07 01:34	REM	EPA 8270C	7G27018
5-73 -7	Fluorene	69.8	Ū	ug/kg dry	69.8	178		07/31/07 01:34	REM	EPA 8270C	7G27018
13-39-5	Indeno (1,2,3-cd) pyrene	23.1	บ	ug/kg dry	23.1	178		07/31/07 01:34	REM	EPA 8270C	7G27018
-57-6	2-Methylnaphthalene	76.1	ŭ	ug/kg dry	76.1			07/31/07 01:34	REM	EPA 8270C	7G27018
-20-3	Naphthalene	71.6	U	ug/kg dry	71.6	178			REM	EPA 8270C	7G27018
-01-8	Phenanthrene	42.1	U		=	178			REM	EPA 8270C	7G27018
9-00-0	Pyrene	36.2	ŭ	ug/kg dry	42.1	178			REM	EPA 8270C	7G27018
rrogate: 2-	-Fluorobiphenyl (24-121%)	67 %	Ų	ug/kg dry	36.2	178	1 (07/31/07 01:34	REM	EPA 8270C	7G27018
	itrobenzene-d5 (19-111%)	65 %							•		
	erphenyl-d14 (44-171%)	120 %								-	
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Test America
ANALYTICAL TESTING CORPORATION

To assist us in using the proper analytical methods, is this work being conducted for populations.

	Client Name	EPG			0") }		Compliance Mor	icted for regulate itoring	ry purposes?
:	Address:				CII	ent#:	-411	Pi-			
	City/State/Zip Code:			· · · · · · · · · · · · · · · · · · ·	···········			Project Name:	LAUREL	Bar	
	Project Manager:	MUHICO	AHOW	EX				Project #:	EP 236	2	
	Telephone Number:			-	ax:			_ Site/Location ID:		4.14 477	State:
Sampler I	Name: (Print Name)	CHB) E	HEVIA	RDIA	-ax:			_ Report To:			Otate,
	Sampler Signature:	MAN	NOTES .	12/2/17				Invoice To:		——————————————————————————————————————	
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To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

	Client Nam	* <u> </u>	<u> </u>								Cli	ient	.	221	11					Con	nplianc	e Mon	itoring					•
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TAT Standard	 	T		Τ	<u>.</u>	Matrix	Pre	erv:	etion	&#</td><td>of C</td><td>ont</td><td>ainer</td><td>2</td><td></td><td>=:-</td><td></td><td>-</td><td>Analy.</td><td></td><td></td><td></td><td></td><td> P(</td><td>O#:</td><td></td><td></td><td>-</td></tr><tr><th></th><th>ges may apply)</th><th>i</th><th></th><th></th><th></th><th>king Water - Soll/Solid city Other</th><th></th><th></th><th></th><th></th><th>1</th><th>ĺ</th><th></th><th></th><th>1.</th><th></th><th>7</th><th>7</th><th>/</th><th></th><th>.</th><th>7</th><th></th><th></th><th></th><th></th><th>QC Deliver</th><th>ables</th></tr><tr><td></td><td>Granner apply)</td><td> </td><td>1</td><td>posit</td><td></td><td>- Soil</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>/3</td><td>. \a</td><td><i>]</i>.</td><td></td><td></td><td>1</td><td>/</td><td>/</td><td></td><td>/</td><td></td><td>_ /</td><td>None</td><td>- 1</td></tr><tr><td>Date Needed:</td><td></td><td>Ì</td><td></td><td>OG</td><td></td><td>E S</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>ĺ</td><td>1 8 H</td><td>"</td><td>$\int_{\mathbb{R}^{n}}$</td><td></td><td></td><td></td><td>/</td><td>,</td><td>/</td><td>/</td><td>/</td><td>/~</td><td>X Level 2</td><td></td></tr><tr><td>Fax Results: Y</td><td>' N</td><td>1 2</td><td>₩ B</td><td>Ü</td><td>72</td><td>O M</td><td></td><td></td><td></td><td></td><td></td><td></td><td> 2</td><td>1</td><td></td><td>72</td><td>7</td><td>/</td><td></td><td></td><td></td><td></td><td></td><td>' /</td><td>r</td><td>/ _</td><td> Level 3</td><td>" </td></tr><tr><td></td><td>ļ ·</td><td>Sam</td><td>Sam</td><td>Grab,</td><td>iii Men</td><td>vege iroun</td><td></td><td>- </td><td></td><td></td><td>_</td><td></td><td>2</td><td>I/</td><td>*</td><td>34</td><td>f</td><td></td><td>/</td><td></td><td></td><td></td><td></td><td></td><td>/</td><td>/ ~</td><td> Level 4 Other:</td><td>- 1</td></tr><tr><td>SAMPLE ID</td><td></td><td>Date Sampled</td><td>Time Sampled</td><td>3 = G</td><td>-ieid</td><td>SL - Studge GW - Grouni WW - Waste</td><td>Ş.</td><td>φ</td><td>Đ.</td><td>,05c</td><td>lethanol</td><td>٩</td><td>Other (Specify)</td><td>[/</td><td>BEN + WAPTH BLIC</td><td></td><td>,</td><td>/ /</td><td>/</td><td></td><td>/</td><td></td><td></td><td>1</td><td>/</td><td>U</td><td>/uner:</td><td> j</td></tr><tr><td>1007 Fexque</td><td>Bettom of</td><td>7-18-67</td><td>1050</td><td>6</td><td>4</td><td>ଉତ୍≩</td><td>=</td><td>Ĭ</td><td>뷕</td><td>ř</td><td>3</td><td>None</td><td>ğ</td><td></td><td>27 C</td><td>11.73 III.</td><td>_/</td><td></td><td>/</td><td></td><td>[</td><td></td><td>/</td><td></td><td></td><td>Þ</td><td>EMARKS</td><td></td></tr><tr><td>HOD FOXELO</td><td>de side ogi</td><td>7-18-07</td><td>1050</td><td>7</td><td>┪</td><td></td><td>$\vdash \vdash$</td><td>\dashv</td><td>\dashv</td><td>4</td><td>ļ.</td><td>2</td><td>2</td><td>X</td><td>$\bot X$</td><td></td><td>4</td><td></td><td></td><td></td><td></td><td>]</td><td></td><td>1</td><td>1</td><td></td><td>LIMARKS</td><td></td></tr><tr><td>1151 Deach</td><td>Birmad</td><td></td><td></td><td></td><td>ᅥ</td><td></td><td></td><td>+</td><td>\dashv</td><td>┵</td><td></td><td></td><td>2</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>7</td><td>1</td><td>1</td><td></td><td></td><td></td></tr><tr><td>1252 Beech</td><td>5100 12</td><td>7-18-07</td><td>1340</td><td>2</td><td>7</td><td></td><td>╌┼</td><td>+</td><td>\dashv</td><td></td><td>4</td><td>2</td><td>4</td><td><u>X</u></td><td>X</td><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>1</td><td>十一</td><td></td><td></td><td>15</td></tr><tr><td>1100 Pas Bo</td><td>botom on t</td><td>7-19-07</td><td></td><td></td><td>┪</td><td></td><td>+</td><td>+</td><td>+</td><td>\dashv</td><td>{-</td><td>2</td><td>4</td><td>Δ.</td><td>1×</td><td>- </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>1</td><td></td><td></td><td></td></tr><tr><td>811001512 D</td><td>b= 02 t</td><td>7:19.67</td><td></td><td></td><td>7</td><td></td><td>_ -</td><td>+</td><td>+</td><td>-+</td><td>-</td><td>2</td><td>쉬</td><td><u> </u></td><td>×</td><td>_ </td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1/5</td></tr><tr><td>21108 1815175</td><td>たてひみ へつしき</td><td>7.19.0</td><td></td><td>_</td><td>7</td><td></td><td>_</td><td>+</td><td>+</td><td>+</td><td>-</td><td>2</td><td>싉</td><td></td><td> </td><td>- </td><td>+</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>16</td></tr><tr><td>1108 1213 5</td><td>DE 02-</td><td>1.90</td><td></td><td></td><td>7</td><td></td><td>_</td><td>+</td><td>+</td><td>+</td><td>_+</td><td>2</td><td>싉</td><td><i>_</i></td><td><u> </u></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><u>.</u></td><td></td><td></td><td></td><td></td><td>17</td></tr><tr><td>1112 1215 1301</td><td>TOMOI</td><td>7.2007</td><td>940 (</td><td>3</td><td>1</td><td></td><td>1</td><td>十</td><td>+</td><td>+</td><td></td><td>\neg</td><td>뒭</td><td><u>``</u></td><td>- 5</td><td>-<u>}</u>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>18</td></tr><tr><td>Special Instructions</td><td>DE 02 7</td><td>2007</td><td>ବ୍ୟୁ (</td><td></td><td></td><td></td><td>_</td><td>†</td><td>\dagger</td><td>+</td><td>w</td><td>2</td><td>뒭</td><td>~</td><td></td><td>- </td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td> </td><td><u> </u></td><td></td><td></td><td>19</td></tr><tr><td>obecies suetructious</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-14</td><td>ΞL</td><td><u>~1</u></td><td><u> </u></td><td>1.7</td><td>J</td><td>ــــــــــــــــــــــــــــــــــــــ</td><td></td><td></td><td></td><td>450</td><td></td><td></td><td></td><td><u> </u></td><td></td><td></td><td>20</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>LABO</td><td>TATOF</td><td>₹Y.COI Temp:</td><td>MMENT</td><td>rs: /</td><td>21</td><td></td><td></td></tr><tr><td>Relinguished By:</td><td>RVavi</td><td>(/</td><td>7-1011</td><td>ति ।</td><td><u>ም</u>ር</td><td>ाटा</td><td></td><td>-</td><td>_</td><td></td><td></td><td>4</td><td>1</td><td>1</td><td>)</td><td></td><td></td><td>1</td><td></td><td>].</td><td>i</td><td></td><td></td><td></td><td>ブ</td><td>1</td><td><i>‡</i></td><td></td></tr><tr><td>reimquished By:</td><td>J)</td><td>-</td><td>7/24/ Date: 24/</td><td>V]_{TI},</td><td><u>U</u>C</td><td>747</td><td>o deiv</td><td>d</td><td>2</td><td>14</td><td>4</td><td>U.</td><td>L</td><td>, / /s</td><td>/ -</td><td>Date</td><td>124</td><td>27 - [</td><td>)D,C</td><td>5</td><td></td><td></td><td>Temp</td><td>~ /</td><td>X_e-</td><td></td><td></td><td></td></tr><tr><td>Polistquijk in Statut</td><td>If V</td><td></td><td>7 24</td><td>艁</td><td>1.7</td><td>-5/1</td><td>ecely</td><td></td><td></td><td></td><td>1/</td><td></td><td></td><td>*</td><td>FITTO</td><td>1</td><td></td><td></td><td>0.7</td><td>7</td><td>Custod</td><td>y Sea</td><td>18: /Y</td><td>N Test A</td><td> N</td><td>√/A</td><td></td><td></td></tr><tr><td>Relinquished By:</td><td>,</td><td>• 1</td><td>Date:</td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td>7</td><td>-//</td><td>PL</td><td>UL</td><td>NU</td><td>Date:</td><td>4/2</td><td>S Tim</td><td>9.3</td><td>'니'</td><td>Ω/</td><td>Jupp フス</td><td>つく</td><td>9 1 t</td><td>meric ∡<i>i⇔F</i></td><td>ia: ``` م</td><td>YN</td><td>$r \mid v$</td></tr><tr><td></td><td></td><td></td><td>- U.Q.</td><td>1111</td><td>ne:</td><td>ĮR</td><td>eceiv</td><td>ed E</td><td>Зу:</td><td></td><td></td><td>U</td><td></td><td></td><td></td><td>Date:</td><td><u>'</u></td><td>Tim</td><td>ie:</td><td>Į ń</td><td>dethod</td><td>of Sh</td><td>ipmen</td><td>"Fe</td><td></td><td>407</td><td>TH-WI</td><td>allo</td></tr></tbody></table>																		

Test/America To assist us in using the proper analytical methods is this work being conducted for regulatory purposes? Compliance Monitoring Client Name Client #: 2411 Address: Project Name: LAUREL BAY City/State/Zip Code: ICHIN MAHONEY Project Manager: Site/Location ID: State: Telephone Number: Report To: Sampler Name: (Print Name) ECHEVARRIA Invoice To: Sampler Signature: Quote #: PO#: Matrix Preservation & # of Containers TAT Analyze For ✓ Standard QC Deliverables Rush (surcharges may apply) None Level 2 Date Needed: (Batch QC) Level 3 Fax Results: Y Level 4 Other: SAMPLE ID 1035 Ris Borron 01/7-20-0/1200 REMARKS 1035 RIS SIDE 02 7-200 1210 Special instructions LABORATORY COMMENTS: Init Lab Temp:

Date:

Time:

Received 65 MG

Received By:

Received By:

Date:

Time:

Relinquished By:

Rec Lab Temp:

8673 ZS91 1900 Method of Shipment: FOUX

Custody Seals: N N/A
Bottles Supplied by Test America: Y N

Appendix C Regulatory Correspondence



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



BOARD:

M. David Mitchell, MD

Coleman F. Buckhouse, MD

Glenn A. McCall

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 - 1011 Foxglove

Site ID # 03997

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)