SUMMARY REPORT
223 GARDENIA DRIVE (FORMERLY 1051 GARDENIA DRIVE)

LAUREL BAY MILITARY HOUSING AREA

MARINE CORPS AIR STATION BEAUFORT

BEAUFORT, SC

Revision: 0 Prepared for:

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

and



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



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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 223 Gardenia Drive (Formerly 1051 Gardenia 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 223 Gardenia Drive (Formerly 1051 Gardenia Drive). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1051 Gardenia Drive* (MCAS Beaufort, 2008). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On August 2, 2007, a single 280 gallon heating oil UST was removed from the front landscaped bed adjacent to the porch area at 223 Gardenia Drive (Formerly 1051 Gardenia Drive). The former UST location is indicated on the figure 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 5'2" bgs and a single soil sample was collected from that depth. An additional sample was collected from the side of the excavation at a depth of 4'3" bgs. The samples were 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 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, 2107) 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 223 Gardenia Drive (Formerly 1051 Gardenia 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 223 Gardenia Drive (Formerly 1051 Gardenia Drive). 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 – 1051 Gardenia Drive, 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 223 Gardenia Drive (Formerly 1051 Gardenia Drive) Laurel Bay Military Housing Area Marine Corps Air Station Beaufort

Beaufort, South Carolina

Constituent	SCDHEC RBSLs (1)	Results Samples Collected 08/02/07							
		1051 Gardenia Bottom 01	1051 Gardenia Side 02						
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)									
Benzene	0.003	ND	ND						
Ethylbenzene	1.15	ND	0.000426						
Naphthalene	0.036	ND	ND						
Toluene	0.627	ND	0.00131						
Xylenes, Total	13.01	ND	0.000511						
Semivolatile Organic Compounds Ana	lyzed 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							

Notes:

Dibenz(a,h)anthracene

0.66

ND

ND

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 Military Complex Family Housing
Owner Name (Corporation, Individual, Public Agency, Other)

1510 Laurel Bay BlvD.

Mailing Address

Beaufort SC 29906
City State Zip Code

843

379-3305 Kyle Broad Foot
Area Code Telephone Number Contact Person

II. SITE IDENTIFICATION AND LOCATION

| N/A |
| Permit I.D. # | Ac tus Lend Lense Construction |
| Facility Name or Company Site Identifier |
| Street Address or State Road (as applicable) |
| Beaufort, SC 29906 | Beaufort |
| City | ZIP | County |

III. INSURANCE INFORMATION

Insurance	Statement
The petroleum release reported to DHEC on monies to pay for appropriate site rehabilitation activitie fund, written confirmation of the existence or non-existen section must be completed.	at Permit ID # <u>may</u> qualify to receive state s. Before participation is allowed in the State Clean-up ce of an environmental insurance policy is required. <u>This</u>
Is there now, or has there ever been an insurance UST release? YESNO (check one)	policy or other financial mechanism that covers this
If you answered YES to the above question	n, 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	a copy of the policy with this report.
And	1
I do/do not (circle one) wish to par	rticipate in the Superb Program.
IV. CERTIFICATION (To be signed by	y the UST owner/operator.)
I certify that I have personally examined and am famil attached documents; and that based on my inquiry of t nformation, I believe that the submitted information is	ior with the information submitted in this and all
Name (Type or print.)	
Signature To be completed by Notary Public:	
worn before me this day of	_, 20
(Name)	- '
Iotary Public for the state of	
reuse affix state seat if you are commissioned outside Sou	th Carolina

	V. UST INFORMATION		1	T		· 1	,
•		Tank I	Tan	Tank 3	Tank 4	Tank 5	Tank 6
	Product(ex. Gas, Kerosene)	#Z DIESE			<u>.</u>		
B.	Capacity. (ex. 1k, 2k) (APPROX).	358g.	<u> </u>				
C.	Age						·
D.	Construction Material(ex. Steel, FRP)	Steel					
E.	Month/Year of Last Use						
F.	Depth (ft.) To Base of Tank	62"					
G.	Spill Prevention Equipment Y/N	N					
H.	Overfill Prevention Equipment Y/N	N					.
I.	Method of Closure Removed Filled	Removed					
J.	Date Tanks Removed/Filled						
K.	Visible Corrosion or Pitting Y/N	8-27			_		
L.	Visible Holes Y/N	N					
	•	У					
M.	Method of disposal for any USTs removed from the	ground (atta	ich dispo	sal mani	fests)		 '
	Recycling - Scrap Ste-	el	<u> </u>				
N.	Method of disposal for any liquid petroleum, sludges disposal manifests) Republic - Soludification	s, or wastewa	ub t	oved from	m the US LAN. D. LA	Ts (attace	ch
O.	If any corrosion, pitting, or holes were observed, described Had Previously BEER	cribe the loca	ntion and	extent fo	or each U	IST Sand	

VI. PIPL INFORMATION

		Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
A.	Construction Material(ex. Steel, FRP)	Steel					
B.	Distance from UST to Dispenser	NIA					
C.	Number of Dispensers	-0-					
D.	Type of System Pressure or Suction	Electric					
E.	Was Piping Removed from the Ground? Y/N	Pump					
F.	Visible Corrosion or Pitting Y/N	N					-
G.	Visible Holes Y/N	N			:		
H	Age	,					
I.	If any corrosion, pitting, or holes were observed, des			and exter	nt for eac	h piping	run.
	VII. BRIEF SITE DESCRIPTION AND I						
	. Home Heating Oil TAN	JK -	Re	SIDE	NTIA	2_	
					•		

VIII. SITE CON. IONS

	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.)		K	
C. Was water present in the UST excavation, soil borings, or trenches?			
If yes, how far below land surface (indicate location and depth)?		×	
D. Did contaminated soils remain stockpiled on site after closure?			
If yes, indicate the stockpile location on the site map.			
Name of DHEC representative authorizing soil removal:		X	
E. Was a petroleum sheen or free product detected on any excavation or boring waters?			
If yes, indicate location and thickness.		x	

Α.

В.							
Sample#	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA#
					8-2-07	M. Jone	J
1	BOTTOM	<i>5</i>	SAND	62"	3:30	A. MANUCY A. MANUCY	ND
2	BOTTOM SIDE	5	SAND SAND	51"	3:30	A. MANGY	ND
3							
4							
5							
6			<u> </u>	_			
7							
8			: 				
9							
10 .							
11							·
12							,
13							
14							
15							
16							
17							
18							
19							
20							

^{* =} Depth Below the Surrounding Land Surface

SAMPLING METHODOLO.

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 Compounds
- Preservative. 24 Sodium Bisulfate lea
EPA METHOD 8270 Poly AROMATIC HYDROCARBONS
- No Preservative
ONE (1) SIDEWALF And ONE (1) BOHOM SAMPLE WERE SECURED FROM TANK EXCENTION SAMPLES WERE STORED AND Shipped IN AN INSURATED COOLER W/ ICE -
SAMPLE WERE SEEMPED From tANK excernation
Samples were stored and shipped in AN
INSUlated Cooled W/ ICE -

XI. RECEPTO...

-		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
B.	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.		
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.		
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?		1
	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	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8
Benzene								
Toluene								
Ethylbenzene								
Xylenes		·						
Naphthalene								
Benzo(a)anthracene								
Benzo(b)flouranthene								
Benzo(k)flouranthene	_							
Chrysene								
Dibenz(a,h)anthracene								
TPH (EPA 3550)								

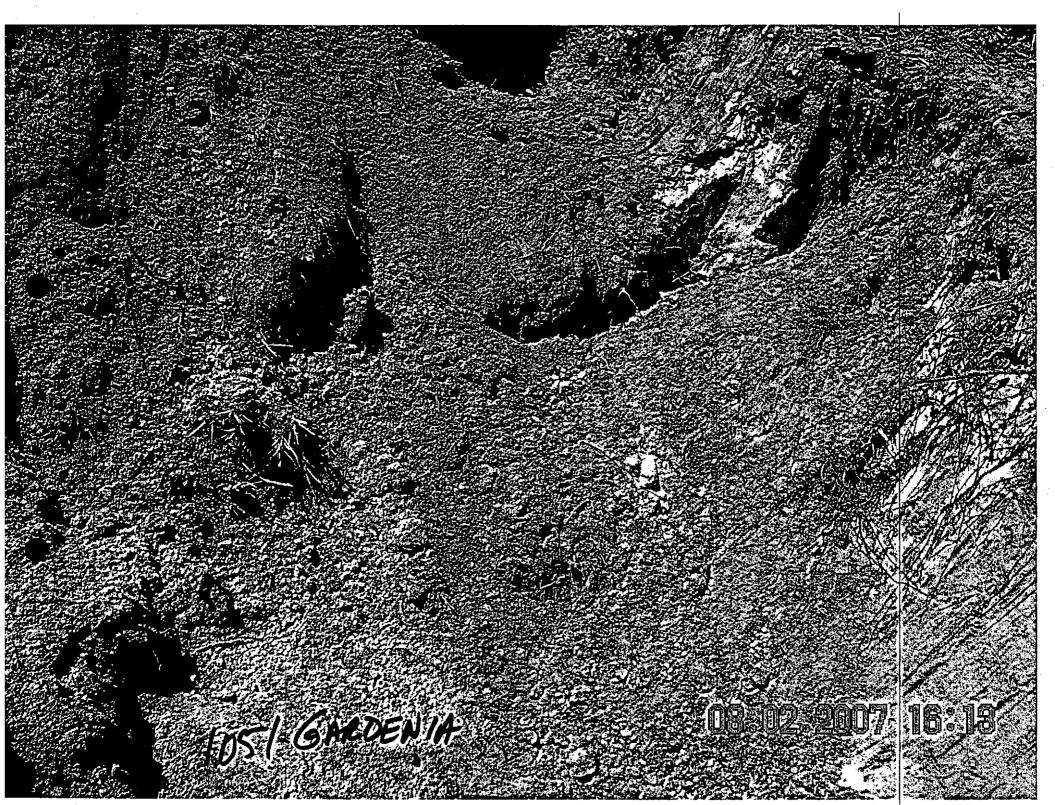
CoC	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16
Benzene								
Toluene			!					
Ethylbenzene						· •		
Xylenes								
Naphthalene	•							
Benzo(a)anthracene								
Benzo(b)flouranthene								
Benzo(k)flouranthene					•			
Chrysene								
Dibenz(a,h)anthracene								
TPH (EPA 3550)								

SUMMARY OF ANALYSIS RESULTS (cont'd)

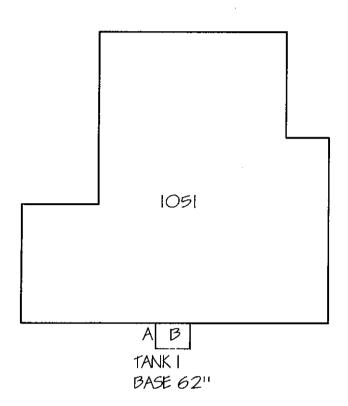
NLA

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)anthracen e	10				
EDB	.05				
1,2-DCA	.05				
Lead	Site specific				







GARDENIA DRIVE

TANK I EXCAVATION

A-SOIL TEST SIDE SAMPLE @ 51'' B-SOIL TEST BOTTOM SAMPLE @ 62''

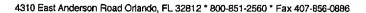


CUSTOMER:	SCALE:	FPG INC
BEAUFORT MILITARY COMPLEX FAMILY HOUSING	1/16"=1'-0"	LFG INC.
DEMOTOR MILITARY COMPLEX PAMILE HOUSING	SUPPLIER:	P.O. BOX 1096
SITE ADDRESS:	EPG INC.	
1051 GARDENIA DRIVE	DATE: 9/22/2007	MOUNT PLEASANT, SC 29465-1096

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)





Client: EPG, INC.

PO BOX 1096

MT PLEASANT, SC 29465

Attn: JOHN MAHONEY

Work Order:

Project:

OQH0599

LAUREL BAY

Project Number:

EP-2362

Sampled: 07/30/07-08/02/07

Received: 08/24/07

LABORATORY REPORT

Sample ID: 1045 GARDENIA SIDE 02 - Lab Number: OQH0599-08 - Matrix: Solid/Soil

CAS#	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	Ву	Method	Batch
Polyaron	natic Hydrocarbons by EPA	8270C									
33-32-9	Acenaphthene	0.0390	Q,U	mg/kg dry	0.0390	0.0727	1	09/02/07 22:18	SCS	SW846 827	0C7085615
208-96-8	Acenaphthylene	0.0477	Q,U	mg/kg dry	0.0477	0.0727	1	09/02/07 22:18	SCS	SW846 827	0C7085615
120-12-7	Anthracene	0.0434	Q,U	mg/kg dry	0.0434	0.0727	1	09/02/07 22:18	SCS	SW846 827	0C7085615
6-55-3	Benzo (a) anthracene	0.0401	Q,U	mg/kg dry	0.0401	0.0727	1	09/02/07 22:18	SCS	SW846 827	0C7085615
0-32-8	Benzo (a) pyrene	0.0434	Q,U	mg/kg dry	0.0434	0.0727	1	09/02/07 22:18	SCS	SW846 827	0C7085615
205-99-2	Benzo (b) fluoranthene	0.0412	Ų,Ų	mg/kg dry	0.0412	0.0727	1	09/02/07 22:18	SCS	SW846 827	0C7085615
91-24-2	Benzo (g,h,i) perylene	0.0293	Q.U	mg/kg dry	0.0293	0.0727	1	09/02/07 22:18	SCS	SW846 827	0C7085615
07-08-9	Benzo (k) fluoranthene	0.0499	Q,U	mg/kg dry	0.0499	0.0727	i	09/02/07 22:18	SCS	SW846 827	0C7085615
18-01-9	Chrysene	0.0423	Q,Ü	mg/kg dry	0.0423	0.0727	I	09/02/07 22:18	SCS	SW846 827	0C7085615
3-70-3	Dibenz (a,h) anthracene	0.0282	Q,U	mg/kg dry	0.0282	0.0727	1	09/02/07 22:18	SCS	SW846 827	0C7085615
06-44-0	Fluoranthene	0.0456	Q,U	mg/kg dry	0.0456	0.0727	1	09/02/07 22:18	SCS	SW846 827	OC7085615
6-73-7	Fluorene	0.0466	Q_iU	mg/kg dry	0.0466	0.0727	1	09/02/07 22:18	SCS	SW846 827	QQ7085615
93-39-5	Indeno (1,2,3-cd) pyrene	0.0369	Q,U	mg/kg dry	0.0369	0.0727	1	09/02/07 22:18	SCS	SW846 827	0C7085615
1-20-3	Naphthalene	0.0434	Q,U	mg/kg dry	0.0434	0.0727	1	09/02/07 22:18	SCS	SW846 827	OC7085615
5-01 <i>-</i> 8	Phenanthrene	0.0434	Q,U	mg/kg dry	0.0434	0.0727	1	09/02/07 22:18	SCS	SW846 827	OC7085615
29-00-0	Pyrene	0.0510	Q,U	mg/kg dry	0.0510	0.0727	1	09/02/07 22:18	SCS	SW846 827	0C7085615
0-12-0	1-Methylnaphthalene	0.0390	Q,U	mg/kg dry	0.0390	0.0727	1	09/02/07 22:18	SCS	SW846 827	0C7085615
1-57-6	2-Methylnaphthalene	0.0390	Q,U	mg/kg dry	0.0390	0.0727	1	09/02/07 22:18	SCS	SW846 827	0C7085615
urrogate: I	Terphenyl-d14 (49-123%)	77 %									
urrogate: 2	-Fluorobiphenyl (30-93%)	65 %									
urrogate: 1	Nitrobenzene-d5 (34-87%)	65 %									

LABORATORY REPORT

Sample ID: 1051 GARDENIA BOTTOM 01 - Lab Number: OQH0599-09 - Matrix: Solid/Soil

									="		
AS # Analyte		Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	Ву	Method	Batch	
Chemistry Parameters									-		
% Solids	94.4	Q	%.	0.100	0.100	1	08/28/07 18:25	RRP	EPA 160.3	7H28047	
Organic Compounds by EPA	Method 826	0B									
Benzene	0.212	Q,U	ug/kg dry	0.212	0.578	1	08/24/07 16:04	JLS	EPA 8260B	7H24014	
Ethylbenzene	0.245	Q,U	ug/kg dry	0.245	0.578	1	08/24/07 16:04	JLS	EPA 8260B	7H24014	
Naphthalene -	0.319	Q,U	ug/kg dry	0.319	0.578	1	08/24/07 16:04	JLS	EPA 8260B	7H24014	
Toluene	0.499	Ų,Ų	ug/kg dry	0.499	0.578	1	08/24/07 16:04	JLS	EPA 8260B	7H24014	
Xylenes, total	0.300	Q,U	ug/kg dry	0.300	0.578	1	08/24/07 16:04	JLS	EPA 8260B	7H24014	
1,2-Dichloroethane-d4 (73-137%)	114%										
4-Bromofluorobenzene (59-118%)	95 %										
Dibromofluoromethane (55-145%)	109 %										
Toluene-d8 (80-117%)	104 %	•			•						
Chemistry Parameters											
% Dry Solids	94.4	SPS	%	0.500	0.500	1	08/28/07 18:25	AEB	SW-846	7085830	
natic Hydrocarbons by EPA 8	270C										
Acenaphthene	0.0371	Q,U	mg/kg dry	0.0371	0.0691	1	09/02/07 22:40	SCS	SW846 8270	C7085615	
Acenaphthylene	0.0454	Q,U		0.0454	0.0691	1	09/02/07 22:40	SCS	SW846 8270	C7085615	
	Chemistry Parameters % Solids Organic Compounds by EPA I Benzene Ethylbenzene - Naphthalene Toluene Xylenes, total I,2-Dichloroethane-d4 (73-137%) I-Bromofluorobenzene (59-118%) Dibromofluoromethane (55-145%) Toluene-d8 (80-117%) Chemistry Parameters % Dry Solids natic Hydrocarbons by EPA 83 Acenaphthene	Chemistry Parameters % Solids 94.4 Organic Compounds by EPA Method 826 Benzene 0.212 Ethylbenzene 0.245 Naphthalene 0.319 Toluene 0.499 Xylenes, total 0.300 4.2-Dichloroethane-d4 (73-137%) 4-Bromofluorobenzene (59-118%) 0ibromofluoromethane (55-145%) 109 % Toluene-d8 (80-117%) 104 % Chemistry Parameters % Dry Solids 94.4 natic Hydrocarbons by EPA 8270C Acenaphthene 0.0371	Chemistry Parameters % Solids 94.4 Q Organic Compounds by EPA Method 8260B Benzene 0.212 Q.U Ethylbenzene 0.245 Q.U - Naphthalene 0.319 Q.U Toluene 0.499 Q.U Xylenes, total 0.300 Q.U I.2-Dichloroethane-d4 (73-137%) 114 % d-Bromofluorobenzene (59-118%) 95 % Dibromofluoromethane (55-145%) 109 % Toluene-d8 (80-117%) 104 % Chemistry Parameters % Dry Solids 94.4 SPS natic Hydrocarbons by EPA 8270C Acenaphthene 0.0371 Q.U	Chemistry Parameters % Solids 94.4 Q %. Organic Compounds by EPA Method 8260B Benzene 0.212 Q.U ug/kg dry Ethylbenzene 0.245 Q.U ug/kg dry Naphthalene 0.319 Q.U ug/kg dry Toluene 0.499 Q.U ug/kg dry Xylenes, total 0.300 Q.U ug/kg dry I,2-Dichloroethane-d4 (73-137%) I14 % I-Bromofluorobenzene (59-118%) Dibromofluoromethane (55-145%) I09 % Toluene-d8 (80-117%) I04 % Chemistry Parameters % Dry Solids 94.4 SPS % natic Hydrocarbons by EPA 8270C Acenaphthene 0.0371 Q.U mg/kg dry	## Chemistry Parameters ## Solids 94.4 Q %	Analyte Result Q Units MDL PQL Chemistry Parameters % Solids 94.4 Q %. 0.100 0.100 Organic Compounds by EPA Method 8260B Benzene 0.212 Q.U ug/kg dry 0.212 0.578 Ethylbenzene 0.245 Q.U ug/kg dry 0.245 0.578 - Naphthalene 0.319 Q.U ug/kg dry 0.319 0.578 Toluene 0.499 Q.U ug/kg dry 0.499 0.578 Xylenes, total 0.300 Q.U ug/kg dry 0.300 0.578 Xylenes, total 0.300 Q.U ug/kg dry 0.300 0.578 A-Dibromofluorobenzene (59-118%) 95 % Oibromofluoromethane (55-145%) 109 % Toluene-d8 (80-117%) 104 % Chemistry Parameters % Dry Solids 94.4 SPS % 0.500 0.500 natic Hydrocarbons by EPA 8270C Acenaphthene 0.0371 Q.U mg/kg dry 0.0371 0.0691	Analyte Result Q Units MDL PQL Factor Chemistry Parameters % Solids 94.4 Q %. 0.100 0.100 1 Organic Compounds by EPA Method 8260B Benzene 0.212 Q,U ug/kg dry 0.212 0.578 1 Ethylbenzene 0.245 Q,U ug/kg dry 0.245 0.578 1 - Naphthalene 0.319 Q,U ug/kg dry 0.319 0.578 1 Toluene 0.499 Q,U ug/kg dry 0.499 0.578 1 Xylenes, total 0.300 Q,U ug/kg dry 0.300 0.578 1 I,2-Dichloroethane-d4 (73-137%) 114 % I-Bromofluorobenzene (59-118%) 95 % Dibromofluoromethane (55-145%) 109 % Toluene-d8 (80-117%) 104 % Chemistry Parameters % Dry Solids 94.4 SPS % 0.500 0.500 1 natic Hydrocarbons by EPA 8270C Acenaphthene 0.0371 Q,U mg/kg dry 0.0371 0.0691 1	Analyte Result Q Units MDL PQL Factor Date/Time Chemistry Parameters % Solids 94.4 Q %. 0.100 0.100 I 08/28/07 18:25 Organic Compounds by EPA Method 8260B Benzene 0.212 Q.U ug/kg dry 0.212 0.578 I 08/24/07 16:04 Ethylbenzene 0.245 Q.U ug/kg dry 0.245 0.578 I 08/24/07 16:04 - Naphthalene 0.319 Q.U ug/kg dry 0.319 0.578 I 08/24/07 16:04 Toluene 0.499 Q.U ug/kg dry 0.499 0.578 I 08/24/07 16:04 Xylenes, total 0.300 Q.U ug/kg dry 0.300 0.578 I 08/24/07 16:04 4.2-Dichloroethane-d4 (73-137%) 114 % 4-Bromofluorobenzene (59-118%) 95 % Dibromofluoromethane (55-145%) 109 % Toluene-d8 (80-117%) 104 % Chemistry Parameters % Dry Solids 94.4 SPS % 0.500 0.500 I 08/28/07 18:25 natic Hydrocarbons by EPA 8270C Acenaphthene 0.0371 Q.U mg/kg dry 0.0371 0.0691 I 09/02/07 22:40	Result Q Units MDL PQL Factor Analyzed Date/Time By	Analyte Result Q Units MDL PQL Factor Dil Analyzed Date/Time By Method Chemistry Parameters % Solids 94.4 Q %. 0.100 0.100 I 08/28/07 18:25 RRP EPA 160.3 Organic Compounds by EPA Method 8260B Benzene 0.212 Q.U ug/kg dry 0.212 0.578 I 08/24/07 16:04 JLS EPA 8260B Ethylbenzene 0.245 Q.U ug/kg dry 0.319 0.578 I 08/24/07 16:04 JLS EPA 8260B - Naphthalene 0.319 Q.U ug/kg dry 0.319 0.578 I 08/24/07 16:04 JLS EPA 8260B Toluene 0.499 Q.U ug/kg dry 0.499 0.578 I 08/24/07 16:04 JLS EPA 8260B Xylenes, total 0.300 Q.U ug/kg dry 0.300 0.578 I 08/24/07 16:04 JLS EPA 8260B (2.2-Dichloroethane-d4 (73-137%) 114 % (3-Bromofluorobenzene (59-118%) 95 % (Dibromofluoromethane (55-145%) 109 % (Foluene-d8 (80-117%) 104 % Chemistry Parameters % Dry Solids 94.4 SPS % 0.500 0.500 I 08/28/07 18:25 AEB SW-846 natic Hydrocarbons by EPA 8270C Acenaphthene 0.0371 Q.U mg/kg dry 0.0371 0.0691 I 09/02/07 22:40 SCS SW846 8270	



Client: EPG, INC.

PO BOX 1096

MT PLEASANT, SC 29465

Attn: JOHN MAHONEY

Work Order:

Project:

OQH0599

LAUREL BAY

Project Number: EP-2362

Sampled: 07/30/07-08/02/07

Received: 08/24/07

LABORATORY REPORT

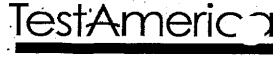
Sample ID: 1051 GARDENIA BOTTOM 01 - Lab Number: OQH0599-09 - Matrix: Solid/Soil

CAS#	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	Ву	Method	Batch
——— Polyaror	natic Hydrocarbons by EPA	3 8270C - Cont	<u>.</u>								
120-12-7	Anthracene	0.0413	Q,U	mg/kg dry	0.0413	0.0691	1	09/02/07 22:40	SCS	SW846 827	OC7085615
56-55-3	Benzo (a) anthracene	0.0382	Q,U	mg/kg dry	0.0382	0.0691	1	09/02/07 22:40	SCS	SW846 827	0C7085615
50-32-8	Benzo (a) pyrene	0.0413	Q,U	mg/kg dry	0.0413	0.0691	1	09/02/07 22:40	SCS	SW846 827	0C7085615
205-99-2	Benzo (b) fluoranthene	0.0392	Q,U	m g/kg dry	0.0392	0.0691	1	09/02/07 22:40	SCS	SW846 827	OC7085615
191-24-2	Benzo (g,h,i) perylene	0.0278	Q,U	mg/kg dry	0.0278	0.0691	I	09/02/07 22:40	SCS	SW846 827	0C7085615
207-08-9	Benzo (k) fluoranthene	0.0474	Q,U	mg/kg dry	0.0474	0.0691	I	09/02/07 22:40	SCS	SW846 827	0C7085615
218-01-9	Chrysene	0.0402	Q,U	mg/kg dry	0.0402	0.0691	1	09/02/07 22:40	SCS	SW846 827	OC7085615
53-70-3	Dibenz (a,h) anthracene	0.0268	Q,U	mg/kg dry	0.0268	0.0691	1	09/02/07 22:40	SCS	SW846 827	0C7085615
206-44-0	Fluoranthene	0.0433	Q,U	mg/kg dry	0.0433	0.0691	1	09/02/07 22:40	SCS	SW846 827	OC7085615
36-73-7	Fluorene	0.0444	Q,U	mg/kg dry	0.0444	0.0691	1	09/02/07 22:40	SCS	SW846 827	0C7085615
93-39-5	Indeno (1,2,3-cd) pyrene	0.0351	Q,U	mg/kg dry	0.0351	0.0691	1	09/02/07 22:40	SCS	SW846 827	OC7085615
1-20-3	Naphthalene	0,0413	Ćû.	mg/kg dry	0.0413	0.0691	1	09/02/07 22:40	SCS	SW846 827	OC7085615
35-01-8	Phenanthrene	0.0413	Q,U	mg/kg dry	0.0413	0.0691	1	09/02/07 22:40	SCS	SW846 827	OC7085615
29-00-0	Pyrene	0.0485	Q,U	mg/kg dry	0.0485	0.0691	1	09/02/07 22:40	SCS	SW846 827	0C7085615
0-12-0	1-Methylnaphthalene	0.0371	Q,U	mg/kg dry	0.0371	0.0691	1	09/02/07 22:40	SCS	SW846 827	0C7085615
1-57-6	2-Methylnaphthalene	0.0371	Q,U	mg/kg dry	0.0371	0.0691	1	09/02/07 22:40	SCS	SW846 827	0C7085615
urrogate:	Terphenyl-d14 (49-123%)	72 %									
urrogate: 2	2-Fluorobiphenyl (30-93%)	60 %									
Surrogate: i	Nitrobenzene-d5 (34-87%)	65 %									

LABORATORY REPORT

Sample ID: 1051 GARDENIA SIDE 02 - Lab Number: OQH0599-10 - Matrix: Solid/Soil

CAS#	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	Ву	Method	Batch	
General	Chemistry Parameters		•		•		· <u>-</u>					
ĪΑ	% Solids	96.6	Q	%.	001.0	0.100	1	08/28/07 18:25	RRP	EPA 160.3	7H28047	
olatile (Organic Compounds by EPA	Method 826	0B									
1-43-2	Benzene	0.311	Q,U	ug/kg dry	0.311	0.851	1	08/24/07 16:21	JLS	EPA 8260B	7H24014	
00-41-4	Ethylbenzene	0.426	Q,I	ug/kg dry	0.360	0.851	1	08/24/07 16:21	JLS	EPA 8260B	7H24014	
1-20-3	Naphthalene	0.470	Q,U	ug/kg dry	0.470	0.851	1	08/24/07 16:21	JLS	EPA 8260B	7H24014	
08-88 <u>-3</u>	Toluene	1.31	Q	ug/kg dry	0.735	0.851	1	08/24/07 16:21	JLS	EPA 8260B	7H24014_	
330-20-7	Xylenes, total	0.511	Q,I	ug/kg dry	0.442	0.851	1	08/24/07 16:21	JLS	EPA 8260B	7H24014	
urrogate: .	1,2-Dichloroethane-d4 (73-137%)	111 %										
urrogate:	4-Bromofluorobenzene (59-118%)	96 %										
errogate: l	Dibromofluoromethane (55-145%)	109 %										
urrogate: '	Toluene-d8 (80-117%)	105 %		•								
eneral (Chemistry Parameters											
olids	% Dry Solids	96.6	SPS .	. %	0.500	0.500	1	08/30/07 18:25	AEB	SW-846	7085830	
olvaron	natic Hydrocarbons by EPA 8	270C										
3-32-9	Acenaphthene	0.0370	Ų,Ų	mg/kg dry	0.0370	0.0689	1	09/02/07 23:02	SCS	SW846 8270	C7085615	
08-96-8	Acenaphthylene	0.0452	Q,U	mg/kg dry	0.0452	0.0689	1	09/02/07 23:02	SCS	SW846 8270	C7085615	
20-12-7	Anthracene	0.0411	Q,U	mg/kg dry	0.0411	0.0689	1	09/02/07 23:02	SCS	SW846 8270	C7085615	
5-55-3	Benzo (a) anthracene	0.0380	Ų,Ų	mg/kg dry	0.0380	0.0689	1	09/02/07 23:02	SCS	SW846 8270	C7085615	



THE LEADER IN ENVIRONMENTAL TESTING

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

Client: EPG, INC.

PO BOX 1096

MT PLEASANT, SC 29465

Attn: JOHN MAHONEY

Work Order:

Project:

OQH0599

LAUREL BAY

Project Number:

EP-2362

Sampled: 07/30/07-08/02/07

Received: 08/24/07

LABORATORY REPORT

Sample ID: 1051 GARDENIA SIDE 02 - Lab Number: OQH0599-10 - Matrix: Solid/Soil

CAS#	Analyte	Result	Result Q Units		MDL	PQL	Dil Factor	Analyzed Date/Time	Ву	Method	Batch
Polyaron	natic Hydrocarbons by EP	A 8270C - Con	t.								
50-32-8	Benzo (a) pyrene	0.0411	Q,U	mg/kg dry	0.0411	0.0689	1	09/02/07 23:02	SCS	SW846 827	OC7085615
205-99-2	Benzo (b) fluoranthene	0.0391	Ų,Ų	mg/kg dry	0.0391	0.0689	Ī	09/02/07 23:02	SCS	SW846 827	OC7085615
191-24-2	Benzo (g,h,i) perylene	0.0277	Q,U	mg/kg dry	0.0277	0.0689	1	09/02/07 23:02	SCS	SW846 827	OC7085615
207-08-9	Benzo (k) fluoranthene	0.0473	Q,U	mg/kg dry	0.0473	0.0689	1	09/02/07 23:02	SCS	SW846 827	OC7085615
218-01-9	Chrysene	0.0401	Q,U	mg/kg dry	0.0401	0.0689	1	09/02/07 23:02	SCS	SW846 827	0C7085615
53-70-3	Dibenz (a,h) anthracene	0.0267	Q,U	mg/kg dry	0.0267	0.0689	1	09/02/07 23:02	SCS	SW846 827	0C7085615
206-44-0	Fluoranthene	0.0432	Q,U	mg/kg dry	0.0432	0.0689	1	09/02/07 23:02	SCS	SW846 827	0C7085615
36-73-7	Fluorene	0.0442	Q,U	mg/kg dry	0.0442	0.0689	1	09/02/07 23:02	SCS	SW846 827	0C7085615
93-39-5	Indeno (1,2,3-cd) pyrene	0.0349	Q,U	mg/kg dry	0.0349	0.0689	1	09/02/07 23:02	SCS	SW846 827	0C7085615
1-20-3	Naphthalene	0.0411	Q,U	mg/kg dry	0.0411	0.0689	1	09/02/07 23:02	SCS	SW846 827	0C7085615
35-01-8	Phenanthrene	0.0411	Q,U	mg/kg dry	0.0411	0.0689	1	09/02/07 23:02	SCS	SW846 827	0C7085615
29-00-0	Pyrene	0.0483	Q,U	mg/kg dry	0.0483	0.0689	1	09/02/07 23:02	SCS	SW846 827	0C7085615
0-12-0	1-Methylnaphthalene	0.0370	Q,U	mg/kg dry	0.0370	0.0689	1	09/02/07 23:02	SCS		0C7085615
1-57-6	2-Methylnaphthalene	0.0370	Q,U	mg/kg dry	0.0370	0.0689	1	09/02/07 23:02	SCS		0C7085615
urrogate: T	Terphenyl-d14 (49-123%)	76 %	<u>-</u> -								
urrogate: 2	?-Fluorobiphenyl (30-93%)	64 %									
urrogate: l	Nitrobenzene-d5 (34-87%)	69%									

0 Q H 0599

Test/America

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

Compliance Monitoring

Client Name	EL	G_{-}							. (Clien	it #:														_
Address:		- [_		_	Projec	ct Name	: L	سم	VJ	18	oll	1		
City/State/Zip Code:														- <u>-</u> -						_	36	7	1		_
Project Manager:	10	10	\mathcal{L}	N_{C}	<i>xhc</i>	Y) ت	\overline{L}	Site/Location ID:										State	:_50					
Telephone Number:	•	_					F	ax:									eport To						•		_
Sampler Name: (Print Name)	Ma	Mack Jones												(A)		oice To							_		
Sampler Signature:										~			ूं		Quote #										
					Matrix	Pres	Serve	ntion	8#	of Co	ntai	ners			3			vze For		744		PO#:		-	-
TAT Standard Rush (surcharges may apply) Date Needed:	אָל	72	= Сотроsite		W - Drinking Water afer S - Soil/Soild afer Specify Other									1:	1220 J		1		7		7/			QC Deliverables None Level 2 (Betch QC) Level 3	
Fax Results: Y N SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C	Field Filtered	SL - Sludge D GW - Groundw WW - Wastewa	HINO3	HCI	HOW	, оѕ,	Methanol	None	Other (Specity)		10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(##-822D)								/	Level 4 Other:	
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1560 Gardenin Side 02						Ш		_		1	2	2	X	X									02		٦
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1051 Gardena Botton				_		Ц	_		_	1	긱	긱	_X	X	<u> </u>								609		7
109 Gardena well	128.24	3.20					[1	길	٦	χ	\mathbf{x}	<u> </u>	<u> </u>							(0		7
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Reinfulntegley. Manone	7 7 7	8-23 Date:				Rec	lved	A	2	14	-	l	4	4	Date:	23-0	7 /3 Time:	:15		Noger Lag. La La	Temp:		42		
notinguished by level of	'	8.23	07	∏me	730	Rece	eived	B)	<u>t</u>	Ve	ly	W				4-07			Bottle	≥s Supp	olied by	Test A	meric	a: Y N	
Relinquished By:	- 1	Date:		Time		Rece	eivec	1 B /	<u>:</u>						Date:		Time:	·	Metho	시오· 역 od of SI	うう(nipment	· C	お台	7 to 74 C	1.1

Appendix C Regulatory Correspondence



BOARD; Paul C. Aughtry, III Chairman

Edwin H. Cooper, III Vice Chairman

Steven G. Kisner Secretary



Henry C. Scott

Glenn A. McCall

M. David Mitchell, MD

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 - 1051 Gardenia

Site ID # 03990

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)