# SUMMARY REPORT
# 507 IRIS LANE (FORMERLY 1150 IRIS LANE)
# LAUREL BAY MILITARY HOUSING AREA
# MARINE CORPS AIR STATION BEAUFORT
# BEAUFORT, SC

Revision: 0

Prepared for:

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

and


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

JUNE 2021

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Prepared by:

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

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

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## Table



## Appendices

## 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 507 Iris Lane (Formerly 1150 Iris Lane). 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 507 Iris Lane (Formerly 1150 Iris Lane). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1150 Iris Lane* (MCAS Beaufort, 2009). The UST Assessment Report is provided in Appendix B.

### 2.1 UST Removal and Soil Sampling

On July 26, 2007, a single 280 gallon heating oil UST was removed from the front landscaped bed area adjacent to the porch area at 507 Iris Lane (Formerly 1150 Iris Lane). The former UST location is indicated in the figures of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 4'2" 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 3'4" 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 507 Iris Lane (Formerly 1150 Iris Lane) 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 507 Iris Lane (Formerly 1150 Iris Lane). This NFA determination was obtained in a letter dated April 9, 2009. SCDHEC's NFA letter is provided in Appendix C.

# 4.0 REFERENCES

Marine Corps Air Station Beaufort, 2009. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 1150 Iris Lane, Laurel Bay Military Housing Area*, March 2009.

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**
**507 Iris Lane (Formerly 1150 Iris Lane)**
**Laurel Bay Military Housing Area**
**Marine Corps Air Station Beaufort**
**Beaufort, South Carolina**

| Constituent | SCDHEC RBSLs [1] | Results Samples Collected 07/26/07 | |
|---|---|---|---|
| | | 1150 Iris Bottom 01 | 1150 Iris Side 02 |
| **Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)** | | | |
| Benzene | 0.003 | ND | ND |
| Ethylbenzene | 1.15 | ND | ND |
| Naphthalene | 0.036 | ND | ND |
| Toluene | 0.627 | **0.000356** | **0.000242** |
| Xylenes, Total | 13.01 | ND | ND |
| **Semivolatile Organic Compounds Analyzed 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:**

[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).

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

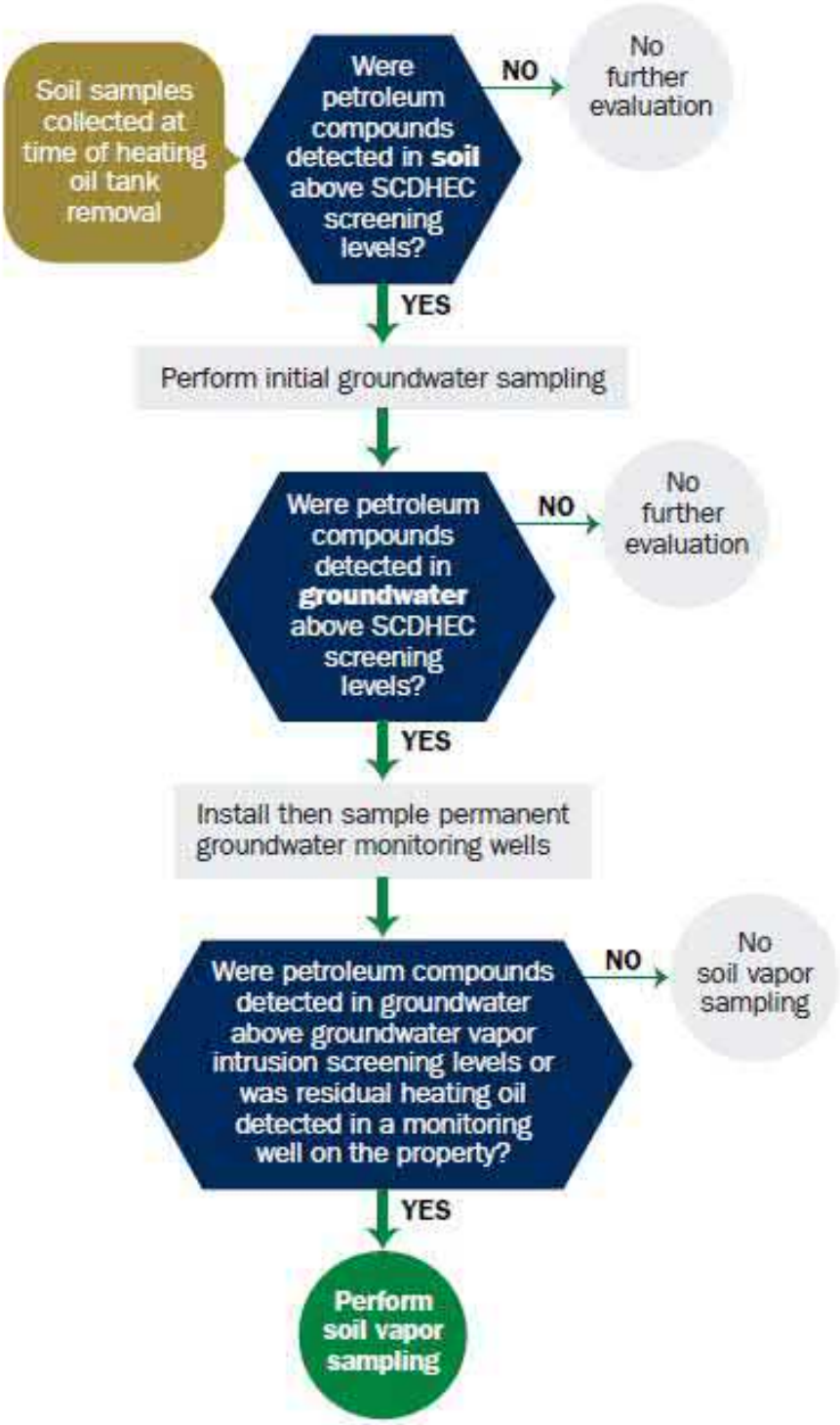
ND - not detected at the reporting limit (or method detection limit if shown on the laboratory report). The laboratory report is provided in Appendix B.

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

**Appendix A**
**Multi-Media Selection Process for LBMH**

CDM - AECOM
Multimedia Joint Venture




## Appendix A - Multi-Media Selection Process for LBMH

**Appendix B**
**UST Assessment Report**

CDM - AECOM
Multimedia Joint Venture

Attachment 1
South Carolina Department of Health and Environmental Control (SCDHEC)

# Underground Storage Tank (UST) Assessment Report

| Date Received | |
|---|---|
| State Use Only | |

**Submit Completed Form To:**
**UST Program**
**SCDHEC**
**2600 Bull Street**
**Columbia, South Carolina 29201**
**Telephone (803) 896-6240**

04154

RECEIVED
MAR 24 2009
LAND REVITALIZATION
DIVISION - BLWM

## 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 Broadfoot
Area Code | Telephone Number | Contact Person

## II. SITE IDENTIFICATION AND LOCATION

N/A
Permit I.D. #

Actus Lend Lease Construction
Facility Name or Company Site Identifier

1150 Ris Ln.
Street Address or State Road (as applicable)

Beaufort, SC | 29906 | Beaufort
City | ZIP | County

Attachment 2

## III. INSURANCE INFORMATION

### Insurance Statement

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

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

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

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

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

**And**

I **do/do not** (circle one) wish to participate in the Superb Program.

## IV. CERTIFICATION (To be signed by the UST owner/operator.)

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

_____
Name (Type or print.)

_____
Signature

### To be completed by Notary Public:

Sworn before me this _____ day of_____, 20___.

_____
(Name)

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

## V. UST INFORMATION

| | Tank 1 | Tank 2 | Tank 3 | Tank 4 | Tank 5 | Tank 6 |
|---|---|---|---|---|---|---|
| A. Product...(ex. Gas, Kerosene)..... | #2 DIESEL | | | | | |
| B. Capacity..(ex. 1k, 2k)..... (APPROX) | 350g. | | | | | |
| C. Age..... | | | | | | |
| D. Construction Material..(ex. Steel, FRP)..... | Steel | | | | | |
| E. Month/Year of Last Use..... | | | | | | |
| F. Depth (ft.) To Base of Tank..... | 50" | | | | | |
| 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..... | 7-2607 | | | | | |
| K. Visible Corrosion or Pitting Y/N..... | N | | | | | |
| L. Visible Holes Y/N..... | N | | | | | |

M. Method of disposal for any USTs removed from the ground (attach disposal manifests)

Recycling - Scrap Steel

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)

Republic Broadhurst Landfill

Solidification & Subtitle D Landfill

O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST

## VI. PIPING 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..... | N/A | | | | | |
| C. Number of Dispensers..... | -0- | | | | | |
| D. Type of System Pressure or Suction..... | Electric Pump | | | | | |
| E. Was Piping Removed from the Ground? Y/N | Y | | | | | |
| 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, describe the location and extent for each piping run.

Minor corrosion was visible on the fill pipe and vent pipe.

## VII. BRIEF SITE DESCRIPTION AND HISTORY

Home Heating Oil Tank - Residential

## 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?<br><br>If yes, indicate depth and location on the site map. | | X | |
| B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells?<br><br>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?<br><br>If yes, how far below land surface (indicate location and depth)? | | X | |
| D. Did contaminated soils remain stockpiled on site after closure?<br><br>If yes, indicate the stockpile location on the site map.<br><br>Name of DHEC representative authorizing soil removal: | | X | |
| E. Was a petroleum sheen or free product detected on any excavation or boring waters?<br><br>If yes, indicate location and thickness. | | X | |

## IX. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number DW: 84009002

B.

| Sample # | Location | Sample Type (Soil/Water) | Soil Type (Sand/Clay) | Depth* | Date/Time of Collection | Collected by | OVA # |
|---|---|---|---|---|---|---|---|
| | BOTTOM | | | | 7-26-07 | M. JONES | |
| 1 | BOTTOM SIDE | S | SAND | 50" | 1405 | A. MANDACH | ND |
| 2 | SIDE | S | SAND | 40" | 1405 | A. MANDACH | ND |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |

* = Depth Below the Surrounding Land Surface

## X. SAMPLING METHODOLOGY

Provide a detailed description of the methods used to collect and 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: 2ea Sodium Bisulfate 1ea
EPA Method 8270 Poly Aromatic Hydrocarbons
- No Preservative

One (1) Sidewall and One (1) Bottom Sample were secured from tank excavation Samples were stored and shipped in an insulated cooler w/ ice.

## XI. RECEPTORS

| | Yes | No |
|---|---|---|
| A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?<br><br>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?<br><br>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?<br><br>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?<br><br>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?<br><br>If yes, indicate the area of contaminated soil on the site map. | | ✓ |

SUMMARY OF ANALYSIS RESULTS N/A

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) N/A

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

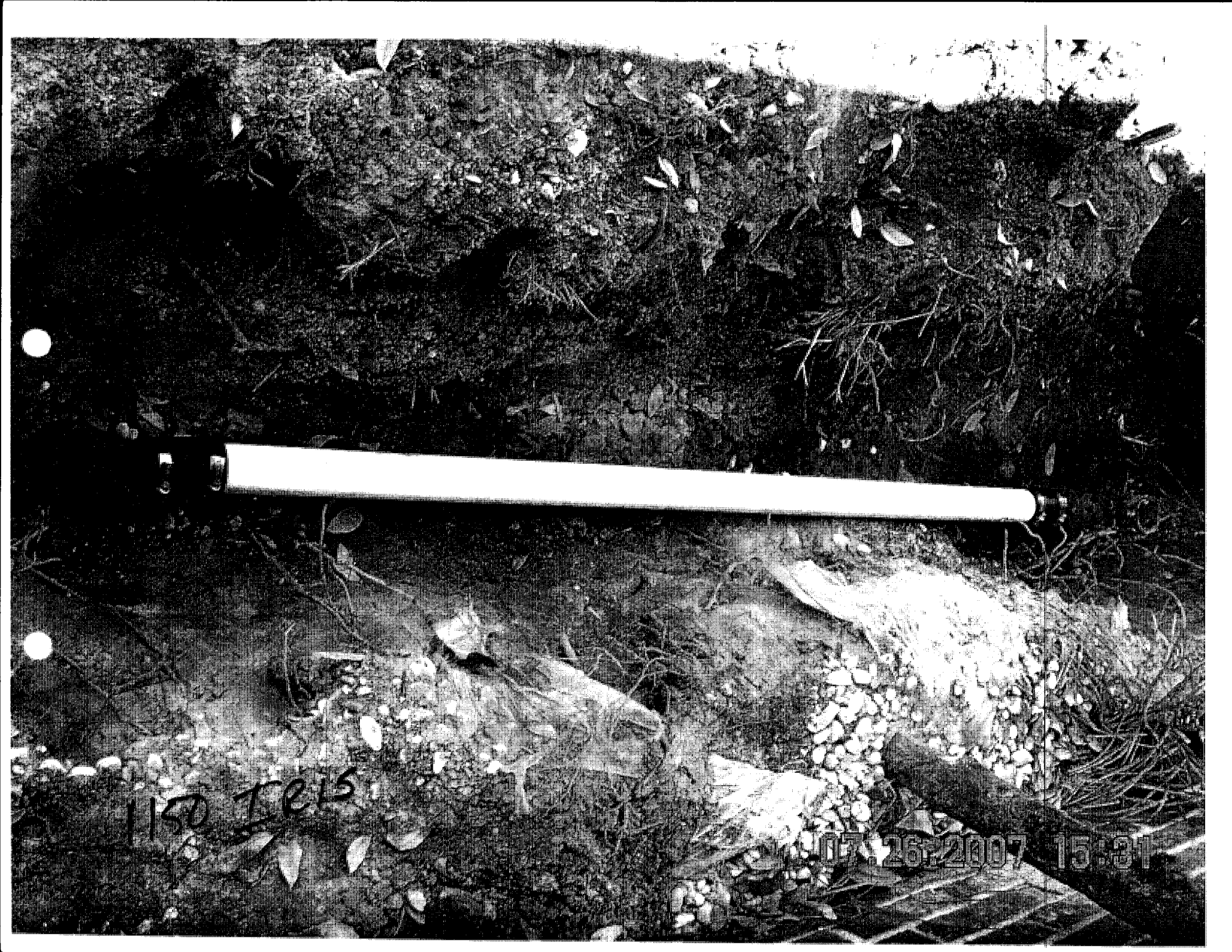
| CoC | RBSL (µg/l) | W-1 | W-2 | W -3 | W -4 |
|---|---|---|---|---|---|
| Free Product Thickness | None | | | | |
| Benzene | 5 | | | | |
| Toluene | 1,000 | | | | |
| Ethylbenzene | 700 | | | | |
| Xylenes | 10,000 | | | | |
| Total BTEX | N/A | | | | |
| MTBE | 40 | | | | |
| Naphthalene | 25 | |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


1150 IRIS
07.26.2007 15:08


1150 IRIS
07.26.2007 15:08

07/26/2007 15:10
1150 IGIS

07 28 2017 15:21
1150 TPIS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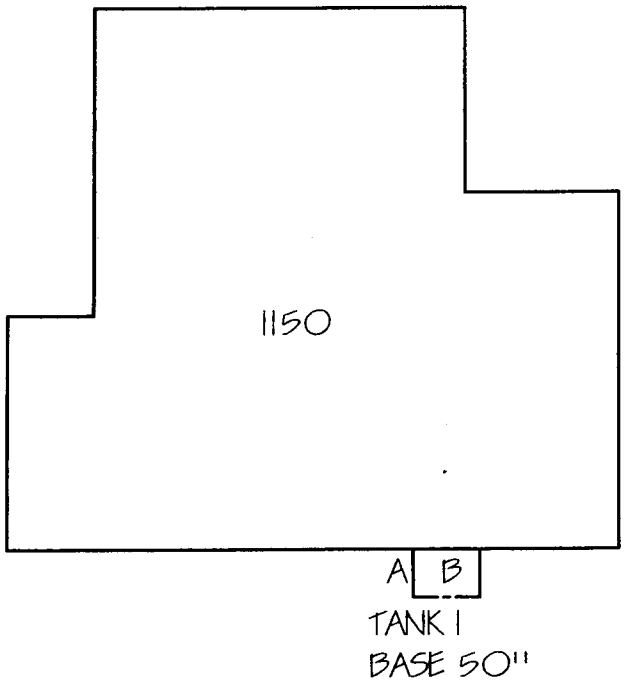
07/26/2007 15:31


07 26 2007 15:42




IRIS LANE

N

TANK 1 EXCAVATION

A-SOIL TEST SIDE SAMPLE @ 40"
B-SOIL TEST BOTTOM SAMPLE @ 50"

| | | |
|---|---|---|
| CUSTOMER: BEAUFORT MILITARY COMPLEX FAMILY HOUSING | SCALE: 1/16"=1'-0" | EPG INC. |
| SITE ADDRESS: 1150 IRIS LANE | SUPPLIER: EPG INC. | P.O. BOX 1096 |
| | 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: OQH0044
Project: LAUREL BAY
Project Number: EP2362

Sampled: 07/23/07-07/27/07
Received: 08/02/07

## LABORATORY REPORT
### Sample ID: 1146 IRIS SIDE 02 - Lab Number: OQH0044-12 - Matrix: Solid/Soil

| CAS # | Analyte | Result | Q | Units | MDL | PQL | Dil Factor | Analyzed Date/Time | By | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA Method 8260B - Cont.** | | | | | | | | | | | |
| 91-20-3 | **Naphthalene** | **0.409** | | ug/kg dry | 0.169 | 0.305 | 1 | 08/03/07 23:51 | JWT | EPA 8260B | 7H03050 |
| 108-88-3 | Toluene | 0.264 | U | ug/kg dry | 0.264 | 0.305 | 1 | 08/03/07 23:51 | JWT | EPA 8260B | 7H03050 |
| 1330-20-7 | Xylenes, total | 0.159 | U | ug/kg dry | 0.159 | 0.305 | 1 | 08/03/07 23:51 | JWT | EPA 8260B | 7H03050 |
| *Surrogate: 1,2-Dichloroethane-d4 (73-137%)* | | *121 %* | | | | | | | | | |
| *Surrogate: 4-Bromofluorobenzene (59-118%)* | | *103 %* | | | | | | | | | |
| *Surrogate: Dibromofluoromethane (55-145%)* | | *109 %* | | | | | | | | | |
| *Surrogate: Toluene-d8 (80-117%)* | | *103 %* | | | | | | | | | |
| **Polynuclear Aromatic Hydrocarbons by EPA Method 8270** | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 90.1 | U | ug/kg dry | 90.1 | 203 | 1 | 08/10/07 10:45 | REM | EPA 8270C | 7H06004 |
| 208-96-8 | Acenaphthylene | 119 | U | ug/kg dry | 119 | 203 | 1 | 08/10/07 10:45 | REM | EPA 8270C | 7H06004 |
| 120-12-7 | Anthracene | 64.9 | U | ug/kg dry | 64.9 | 203 | 1 | 08/10/07 10:45 | REM | EPA 8270C | 7H06004 |
| 56-55-3 | **Benzo (a) anthracene** | **696** . 696 | | ug/kg dry | 22.0 | 203 | 1 | 08/10/07 10:45 | REM | EPA 8270C | 7H06004 |
| 205-99-2 | **Benzo (b) fluoranthene** | **663** . 663 | | ug/kg dry | 21.4 | 203 | 1 | 08/10/07 10:45 | REM | EPA 8270C | 7H06004 |
| 207-08-9 | **Benzo (k) fluoranthene** | **254** . 254 | | ug/kg dry | 21.4 | 203 | 1 | 08/10/07 10:45 | REM | EPA 8270C | 7H06004 |
| 191-24-2 | **Benzo (g,h,i) perylene** | **134** . 134 | I | ug/kg dry | 21.1 | 203 | 1 | 08/10/07 10:45 | REM | EPA 8270C | 7H06004 |
| 50-32-8 | **Benzo (a) pyrene** | **380** . 380 | | ug/kg dry | 25.0 | 203 | 1 | 08/10/07 10:45 | REM | EPA 8270C | 7H06004 |
| 90-12-0 | 1-Methylnaphthalene | 102 . 102 | U | ug/kg dry | 102 | 203 | 1 | 08/10/07 10:45 | REM | EPA 8270C | 7H06004 |
| 218-01-9 | **Chrysene** | **938** . 938 | | ug/kg dry | 24.3 | 203 | 1 | 08/10/07 10:45 | REM | EPA 8270C | 7H06004 |
| 53-70-3 | Dibenz (a,h) anthracene | 26.7 | U | ug/kg dry | 26.7 | 203 | 1 | 08/10/07 10:45 | REM | EPA 8270C | 7H06004 |
| 206-44-0 | **Fluoranthene** | **488** . 488 | | ug/kg dry | 29.3 | 203 | 1 | 08/10/07 10:45 | REM | EPA 8270C | 7H06004 |
| 86-73-7 | Fluorene | 79.6 | U | ug/kg dry | 79.6 | 203 | 1 | 08/10/07 10:45 | REM | EPA 8270C | 7H06004 |
| 193-39-5 | **Indeno (1,2,3-cd) pyrene** | **139** . 139 | I | ug/kg dry | 26.3 | 203 | 1 | 08/10/07 10:45 | REM | EPA 8270C | 7H06004 |
| 91-57-6 | 2-Methylnaphthalene | 86.7 | U | ug/kg dry | 86.7 | 203 | 1 | 08/10/07 10:45 | REM | EPA 8270C | 7H06004 |
| 91-20-3 | Naphthalene | 81.7 | U | ug/kg dry | 81.7 | 203 | 1 | 08/10/07 10:45 | REM | EPA 8270C | 7H06004 |
| 85-01-8 | Phenanthrene | 48.0 | U | ug/kg dry | 48.0 | 203 | 1 | 08/10/07 10:45 | REM | EPA 8270C | 7H06004 |
| 129-00-0 | **Pyrene** | **716** . 716 | | ug/kg dry | 41.3 | 203 | 1 | 08/10/07 10:45 | REM | EPA 8270C | 7H06004 |
| *urrogate: 2-Fluorobiphenyl (24-121%)* | | *52 %* | | | | | | | | | |
| *urrogate: Nitrobenzene-d5 (19-111%)* | | *52 %* | | | | | | | | | |
| *urrogate: Terphenyl-d14 (44-171%)* | | *83 %* | | | | | | | | | |

## LABORATORY REPORT
### Sample ID: 1150 IRIS BOTTOM 01 - Lab Number: OQH0044-13 - Matrix: Solid/Soil

| CAS # | Analyte | Result | Q | Units | MDL | PQL | Dil Factor | Analyzed Date/Time | By | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | | |
| A | **% Solids** | **73.9** | | %. | 0.100 | 0.100 | 1 | 08/02/07 17:45 | RRP | EPA 160.3 | 7H02039 |
| **Volatile Organic Compounds by EPA Method 8260B** | | | | | | | | | | | |
| 1-43-2 | Benzene | 0.123 | U | ug/kg dry | 0.123 | 0.336 | 1 | 08/04/07 00:08 | JWT | EPA 8260B | 7H03050 |
| 00-41-4 | Ethylbenzene | 0.142 | U | ug/kg dry | 0.142 | 0.336 | 1 | 08/04/07 00:08 | JWT | EPA 8260B | 7H03050 |
| 1-20-3 | Naphthalene | 0.185 | U | ug/kg dry | 0.185 | 0.336 | 1 | 08/04/07 00:08 | JWT | EPA 8260B | 7H03050 |
| 08-88-3 | **Toluene** | **0.356** | | ug/kg dry | 0.290 | 0.336 | 1 | 08/04/07 00:08 | JWT | EPA 8260B | 7H03050 |
| 330-20-7 | Xylenes, total | 0.174 | U | ug/kg dry | 0.174 | 0.336 | 1 | 08/04/07 00:08 | JWT | EPA 8260B | 7H03050 |
| *rrogate: 1,2-Dichloroethane-d4 (73-137%)* | | *132 %* | | | | | | | | | |

Client: EPG, INC.
PO BOX 1096
MT PLEASANT, SC 29465
Attn: JOHN MAHONEY

Work Order: OQH0044
Project: LAUREL BAY
Project Number: EP2362

Sampled: 07/23/07-07/27/07
Received: 08/02/07

## LABORATORY REPORT
### Sample ID: 1150 IRIS BOTTOM 01 - Lab Number: OQH0044-13 - Matrix: Solid/Soil

| CAS # | Analyte | Result | Q | Units | MDL | PQL | Dil Factor | Analyzed Date/Time | By | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA Method 8260B - Cont.** | | | | | | | | | | | |
| *Surrogate: 4-Bromofluorobenzene (59-118%)* | | *104 %* | | | | | | | | | |
| *Surrogate: Dibromofluoromethane (55-145%)* | | *109 %* | | | | | | | | | |
| *Surrogate: Toluene-d8 (80-117%)* | | *103 %* | | | | | | | | | |
| **Polynuclear Aromatic Hydrocarbons by EPA Method 8270** | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 100 | U | ug/kg dry | 100 | 226 | 1 | 08/10/07 11:08 | REM | EPA 8270C | 7H06004 |
| 208-96-8 | Acenaphthylene | 132 | U | ug/kg dry | 132 | 226 | 1 | 08/10/07 11:08 | REM | EPA 8270C | 7H06004 |
| 120-12-7 | Anthracene | 72.1 | U | ug/kg dry | 72.1 | 226 | 1 | 08/10/07 11:08 | REM | EPA 8270C | 7H06004 |
| 56-55-3 | Benzo (a) anthracene | 24.5 | U | ug/kg dry | 24.5 | 226 | 1 | 08/10/07 11:08 | REM | EPA 8270C | 7H06004 |
| 205-99-2 | Benzo (b) fluoranthene | 23.8 | U | ug/kg dry | 23.8 | 226 | 1 | 08/10/07 11:08 | REM | EPA 8270C | 7H06004 |
| 207-08-9 | Benzo (k) fluoranthene | 23.8 | U | ug/kg dry | 23.8 | 226 | 1 | 08/10/07 11:08 | REM | EPA 8270C | 7H06004 |
| 191-24-2 | Benzo (g,h,i) perylene | 23.5 | U | ug/kg dry | 23.5 | 226 | 1 | 08/10/07 11:08 | REM | EPA 8270C | 7H06004 |
| 50-32-8 | Benzo (a) pyrene | 27.8 | U | ug/kg dry | 27.8 | 226 | 1 | 08/10/07 11:08 | REM | EPA 8270C | 7H06004 |
| 90-12-0 | 1-Methylnaphthalene | 113 | U | ug/kg dry | 113 | 226 | 1 | 08/10/07 11:08 | REM | EPA 8270C | 7H06004 |
| 218-01-9 | Chrysene | 27.0 | U | ug/kg dry | 27.0 | 226 | 1 | 08/10/07 11:08 | REM | EPA 8270C | 7H06004 |
| 53-70-3 | Dibenz (a,h) anthracene | 29.7 | U | ug/kg dry | 29.7 | 226 | 1 | 08/10/07 11:08 | REM | EPA 8270C | 7H06004 |
| 206-44-0 | Fluoranthene | 32.5 | U | ug/kg dry | 32.5 | 226 | 1 | 08/10/07 11:08 | REM | EPA 8270C | 7H06004 |
| 86-73-7 | Fluorene | 88.5 | U | ug/kg dry | 88.5 | 226 | 1 | 08/10/07 11:08 | REM | EPA 8270C | 7H06004 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 29.3 | U | ug/kg dry | 29.3 | 226 | 1 | 08/10/07 11:08 | REM | EPA 8270C | 7H06004 |
| 91-57-6 | 2-Methylnaphthalene | 96.4 | U | ug/kg dry | 96.4 | 226 | 1 | 08/10/07 11:08 | REM | EPA 8270C | 7H06004 |
| 91-20-3 | Naphthalene | 90.8 | U | ug/kg dry | 90.8 | 226 | 1 | 08/10/07 11:08 | REM | EPA 8270C | 7H06004 |
| 85-01-8 | Phenanthrene | 53.3 | U | ug/kg dry | 53.3 | 226 | 1 | 08/10/07 11:08 | REM | EPA 8270C | 7H06004 |
| 129-00-0 | Pyrene | 45.9 | U | ug/kg dry | 45.9 | 226 | 1 | 08/10/07 11:08 | REM | EPA 8270C | 7H06004 |
| *Surrogate: 2-Fluorobiphenyl (24-121%)* | | *78 %* | | | | | | | | | |
| *Surrogate: Nitrobenzene-d5 (19-111%)* | | *79 %* | | | | | | | | | |
| *Surrogate: Terphenyl-d14 (44-171%)* | | *114 %* | | | | | | | | | |

## LABORATORY REPORT
### Sample ID: 1150 IRIS SIDE 02 - Lab Number: OQH0044-14 - Matrix: Solid/Soil

| CAS # | Analyte | Result | Q | Units | MDL | PQL | Dil Factor | Analyzed Date/Time | By | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | | |
| N/A | **% Solids** | **87.6** | | %. | 0.100 | 0.100 | 1 | 08/02/07 17:45 | RRP | EPA 160.3 | 7H02039 |
| **Volatile Organic Compounds by EPA Method 8260B** | | | | | | | | | | | |
| 71-43-2 | Benzene | 0.101 | U | ug/kg dry | 0.101 | 0.275 | 1 | 08/04/07 00:24 | JWT | EPA 8260B | 7H03050 |
| 100-41-4 | Ethylbenzene | 0.116 | U | ug/kg dry | 0.116 | 0.275 | 1 | 08/04/07 00:24 | JWT | EPA 8260B | 7H03050 |
| 91-20-3 | Naphthalene | 0.152 | U | ug/kg dry | 0.152 | 0.275 | 1 | 08/04/07 00:24 | JWT | EPA 8260B | 7H03050 |
| 108-88-3 | **Toluene** | **0.242** | I | ug/kg dry | 0.237 | 0.275 | 1 | 08/04/07 00:24 | JWT | EPA 8260B | 7H03050 |
| 1330-20-7 | Xylenes, total | 0.143 | U | ug/kg dry | 0.143 | 0.275 | 1 | 08/04/07 00:24 | JWT | EPA 8260B | 7H03050 |
| *Surrogate: 1,2-Dichloroethane-d4 (73-137%)* | | *129 %* | | | | | | | | | |
| *Surrogate: 4-Bromofluorobenzene (59-118%)* | | *105 %* | | | | | | | | | |
| *Surrogate: Dibromofluoromethane (55-145%)* | | *111 %* | | | | | | | | | |
| *Surrogate: Toluene-d8 (80-117%)* | | *103 %* | | | | | | | | | |
| **Polynuclear Aromatic Hydrocarbons by EPA Method 8270** | | | | | | | | | | | |

Client: EPG, INC.
PO BOX 1096
MT PLEASANT, SC 29465
Attn: JOHN MAHONEY

Work Order: OQH0044
Project: LAUREL BAY
Project Number: EP2362

Sampled: 07/23/07-07/27/07
Received: 08/02/07

## LABORATORY REPORT
## Sample ID: 1150 IRIS SIDE 02 - Lab Number: OQH0044-14 - Matrix: Solid/Soil

| CAS # | Analyte | Result | Q | Units | MDL | PQL | Dil Factor | Analyzed Date/Time | By | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Polynuclear Aromatic Hydrocarbons by EPA Method 8270** | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 84.5 | U | ug/kg dry | 84.5 | 191 | 1 | 08/10/07 11:30 | REM | EPA 8270C | 7H06004 |
| 208-96-8 | Acenaphthylene | 111 | U | ug/kg dry | 111 | 191 | 1 | 08/10/07 11:30 | REM | EPA 8270C | 7H06004 |
| 120-12-7 | Anthracene | 60.8 | U | ug/kg dry | 60.8 | 191 | 1 | 08/10/07 11:30 | REM | EPA 8270C | 7H06004 |
| 56-55-3 | Benzo (a) anthracene | 20.6 | U | ug/kg dry | 20.6 | 191 | 1 | 08/10/07 11:30 | REM | EPA 8270C | 7H06004 |
| 205-99-2 | Benzo (b) fluoranthene | 20.1 | U | ug/kg dry | 20.1 | 191 | 1 | 08/10/07 11:30 | REM | EPA 8270C | 7H06004 |
| 207-08-9 | Benzo (k) fluoranthene | 20.1 | U | ug/kg dry | 20.1 | 191 | 1 | 08/10/07 11:30 | REM | EPA 8270C | 7H06004 |
| 191-24-2 | Benzo (g,h,i) perylene | 19.8 | U | ug/kg dry | 19.8 | 191 | 1 | 08/10/07 11:30 | REM | EPA 8270C | 7H06004 |
| 50-32-8 | Benzo (a) pyrene | 23.5 | U | ug/kg dry | 23.5 | 191 | 1 | 08/10/07 11:30 | REM | EPA 8270C | 7H06004 |
| 90-12-0 | 1-Methylnaphthalene | 95.7 | U | ug/kg dry | 95.7 | 191 | 1 | 08/10/07 11:30 | REM | EPA 8270C | 7H06004 |
| 218-01-9 | Chrysene | 22.8 | U | ug/kg dry | 22.8 | 191 | 1 | 08/10/07 11:30 | REM | EPA 8270C | 7H06004 |
| 53-70-3 | Dibenz (a,h) anthracene | 25.0 | U | ug/kg dry | 25.0 | 191 | 1 | 08/10/07 11:30 | REM | EPA 8270C | 7H06004 |
| 206-44-0 | Fluoranthene | 27.4 | U | ug/kg dry | 27.4 | 191 | 1 | 08/10/07 11:30 | REM | EPA 8270C | 7H06004 |
| 86-73-7 | Fluorene | 74.6 | U | ug/kg dry | 74.6 | 191 | 1 | 08/10/07 11:30 | REM | EPA 8270C | 7H06004 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 24.7 | U | ug/kg dry | 24.7 | 191 | 1 | 08/10/07 11:30 | REM | EPA 8270C | 7H06004 |
| 91-57-6 | 2-Methylnaphthalene | 81.3 | U | ug/kg dry | 81.3 | 191 | 1 | 08/10/07 11:30 | REM | EPA 8270C | 7H06004 |
| 91-20-3 | Naphthalene | 76.5 | U | ug/kg dry | 76.5 | 191 | 1 | 08/10/07 11:30 | REM | EPA 8270C | 7H06004 |
| 85-01-8 | Phenanthrene | 45.0 | U | ug/kg dry | 45.0 | 191 | 1 | 08/10/07 11:30 | REM | EPA 8270C | 7H06004 |
| 129-00-0 | Pyrene | 38.7 | U | ug/kg dry | 38.7 | 191 | 1 | 08/10/07 11:30 | REM | EPA 8270C | 7H06004 |
| *Surrogate: 2-Fluorobiphenyl (24-121%)* | | *70 %* | | | | | | | | | |
| *Surrogate: Nitrobenzene-d5 (19-111%)* | | *66 %* | | | | | | | | | |
| *Surrogate: Terphenyl-d14 (44-171%)* | | *109 %* | | | | | | | | | |

## LABORATORY REPORT
## Sample ID: 1052 GARDENA BOTTOM 01 - Lab Number: OQH0044-15 - Matrix: Solid/Soil

| CAS # | Analyte | Result | Q | Units | MDL | PQL | Dil Factor | Analyzed Date/Time | By | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | | |
| N/A | **% Solids** | **75.4** | | %. | 0.100 | 0.100 | 1 | 08/03/07 17:20 | RRP | EPA 160.3 | 7H03058 |
| **Volatile Organic Compounds by EPA Method 8260B** | | | | | | | | | | | |
| 71-43-2 | **Benzene** | **156** | | ug/kg dry | 7.46 | 20.4 | 50 | 08/04/07 13:19 | JWT | EPA 8260B | 7H03050 |
| 100-41-4 | **Ethylbenzene** | **5150** | | ug/kg dry | 8.63 | 20.4 | 50 | 08/04/07 13:19 | JWT | EPA 8260B | 7H03050 |
| 91-20-3 | **Naphthalene** | **29600** | | ug/kg dry | 113 | 204 | 500 | 08/04/07 15:40 | JWT | EPA 8260B | 7H03050 |
| 108-88-3 | **Toluene** | **67.7** | | ug/kg dry | 17.6 | 20.4 | 50 | 08/04/07 13:19 | JWT | EPA 8260B | 7H03050 |
| 1330-20-7 | **Xylenes, total** | **8190** | | ug/kg dry | 10.6 | 20.4 | 50 | 08/04/07 13:19 | JWT | EPA 8260B | 7H03050 |
| *Surrogate: 1,2-Dichloroethane-d4 (73-137%)* | | *98 %* | | | | | | | | | |
| *Surrogate: 4-Bromofluorobenzene (59-118%)* | | *86 %* | | | | | | | | | |
| *Surrogate: Dibromofluoromethane (55-145%)* | | *96 %* | | | | | | | | | |
| *Surrogate: Toluene-d8 (80-117%)* | | *100 %* | | | | | | | | | |
| **Polynuclear Aromatic Hydrocarbons by EPA Method 8270** | | | | | | | | | | | |
| 83-32-9 | **Acenaphthene** | **3940** | | ug/kg dry | 98.2 | 222 | 1 | 08/10/07 11:52 | REM | EPA 8270C | 7H06004 |
| 208-96-8 | Acenaphthylene | 130 | U | ug/kg dry | 130 | 222 | 1 | 08/10/07 11:52 | REM | EPA 8270C | 7H06004 |
| 120-12-7 | **Anthracene** | **3500** | | ug/kg dry | 70.6 | 222 | 1 | 08/10/07 11:52 | REM | EPA 8270C | 7H06004 |
| 56-55-3 | **Benzo (a) anthracene** | **2540** | | ug/kg dry | 24.0 | 222 | 1 | 08/10/07 11:52 | REM | EPA 8270C | 7H06004 |

DQH0044 page 1 of 3

TestAmerica
ANALYTICAL TESTING CORPORATION

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

Client Name: EPS  Client #: 2411
Address:
City/State/Zip Code:
Project Manager: JOHN MAHONEY
Telephone Number:  Fax:
Sampler Name: (Print Name) CHRIS ECHEVARRIA
Sampler Signature:

Project Name: LAUREL BAY
Project #: EP 2362
Site/Location ID:  State:
Report To:
Invoice To:
Quote #:  PO#:

TAT
X Standard
___ Rush (surcharges may apply)
Date Needed: ____
Fax Results: Y N

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: BTEX + MTBE 8260 | PAH 8270 | QC Deliverables | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1124 IRIS BOTTOM 01 | 7-24-07 | 1010 | G | | | | | | | 1 | 2 | 2 | X | X | | 01 |
| 1124 IRIS SIDE 02 | 7-24-07 | 1010 | C | | | | | | | 1 | 2 | 2 | X | X | | 02 |
| 1130 IRIS BOTTOM 01 | 7-24-07 | 1315 | G | | | | | | | 1 | 2 | 2 | X | X | | 03 |
| 1130 IRIS SIDE 02 | 7-24-07 | 1320 | C | | | | | | | 1 | 2 | 2 | X | X | | 04 |
| 1140 IRIS BOTTOM 01 | 7-25-07 | 930 | G | | | | | | | 1 | 2 | 2 | X | X | | 05 |
| 1140 IRIS SIDE 02 | 7-25 | 930 | C | | | | | | | 1 | 2 | 2 | X | X | | 06 |
| 1140 IRIS BOTTOM 03 | 7-25 | 940 | G | | | | | | | 1 | 2 | 2 | X | X | | 07 |
| 1140 IRIS SIDE 04 | 7-25 | 940 | C | | | | | | | 1 | 2 | 2 | X | X | | 08 |
| 1142 IRIS BOTTOM 01 | 7-25 | 1450 | G | | | | | | | 1 | 2 | 2 | X | X | | 09 |
| 1142 IRIS SIDE 02 | 7-25 | 1440 | C | | | | | | | 1 | 2 | 2 | X | X | | 10 |

QC Deliverables
___ None
X Level 2 (Batch QC)
___ Level 3
___ Level 4
Other: ____

Special Instructions:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp: 6.0 C
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment: FedEx OTA-Orlando

| | Date | Time |
|---|---|---|
| Relinquished By: Echevarria | 8/1/07 | 0900 |
| Relinquished By: Kruelaff | 8/1/07 | 1730 |
| Relinquished By: | Date: | Time: |
| Received By: Kruelaff | 8/1/07 | 0900 |
| Received By: | 8/2 | 9:00 |
| Received By | Date: | Time: |

8623 2591 1725

TestAmerica
ANALYTICAL TESTING CORPORATION

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

Client Name: EPG  Client #: 2411
Address:
City/State/Zip Code:
Project Manager: JOHN MAHONEY
Telephone Number:  Fax:
Sampler Name: (Print Name) CHRIS ECHEVARRIA
Sampler Signature:

Project Name: LAUREL BAY
Project #: EP 2362
Site/Location ID:  State:
Report To:
Invoice To:
Quote #:  PO#:

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed: ____
Fax Results: Y N

| | SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: BTEX+NAPTH 8260 | PAH 8270 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1146 IRIS BOTTOM 01 | 7-26-07 | 930 | G | | | | | | | 1 | 2 | 2 | X | X | 11 |
| 2 | 1146 IRIS SIDE 02 | 7-26 | 940 | C | | | | | | | 1 | 2 | 2 | X | X | 12 |
| 3 | 1150 IRIS BOTTOM 01 | 7-26 | 1405 | G | | | | | | | 1 | 2 | 2 | X | X | 13 |
| 4 | 1150 IRIS SIDE 02 | 7-26 | 1405 | C | | | | | | | 1 | 2 | 2 | X | X | 14 |
| 5 | 1052 GARDENIA BOTTOM 01 | 7-27-07 | 845 | G | | | | | | | 1 | 2 | 2 | X | X | 15 |
| 6 | 1052 GARDENIA SIDE 02 | 7-27-07 | 845 | C | | | | | | | 1 | 2 | 2 | X | X | 16 |
| 7 | 1056 GARDENIA BOTTOM 01 | " | 1200 | G | | | | | | | 1 | 2 | 2 | X | X | 17 |
| 8 | 1056 GARDENIA SIDE 02 | | 1200 | C | | | | | | | 1 | 2 | 2 | X | X | 18 |
| 9 | 1056 GARDENIA BOTTOM 03 | | 1220 | G | | | | | | | 1 | 2 | 2 | X | X | 19 |
| 10 | 1056 GARDENIA SIDE 04 | ↓ | 1220 | C | | | | | | | 1 | 2 | 2 | X | X | 20 |

QC Deliverables: ___ None; X Level 2 (Batch QC); ___ Level 3; ___ Level 4; Other: ____
REMARKS

Special Instructions:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Relinquished By: Chris Echevarria | Date: 8/1/07 | Time: 0900 | Received By: | Date: 8/1/07 | Time: 0900 |
| Relinquished By: | Date: 8/1/07 | Time: 1730 | Received By | Date: 8/2 | Time: 9:00 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
8623 2591 1736
Method of Shipment: FedEx to TA. O. Lunch

TestAmerica
ANALYTICAL TESTING CORPORATION

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

Client Name: EPG Client #: 2411
Address:
City/State/Zip Code:
Project Manager: JOHN MAHONEY
Telephone Number: Fax
Sampler Name: (Print Name) CHRIS ECHEVARRIA
Sampler Signature:

Project Name: LAUREL BAY
Project #: EP 2362
Site/Location ID: State:
Report To:
Invoice To:
Quote #: PO#:

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed:
Fax Results: Y N

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: BTEX + NAPTH 8260 | PAH 8270 | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1036 IRIS BOTTOM 01 | 7-23-07 | 1010 | G | | | | | | | 1 | 2 | 2 | X | X | 21 |
| 1036 IRIS SIDE 02 | 7-23-07 | 1020 | C | | | | | | | 1 | 2 | 2 | X | X | 22 |
| 1106 BOTTOM 01 | | | | | | | | | | | | | | | |
| 1106 SIDE | | | | | | | | | | | | | | | |
| 1106 IRIS BOTTOM 01 | 7-23-07 | 1140 | G | | | | | | | 1 | 2 | 2 | X | X | 23 |
| 1106 IRIS SIDE 02 | 7-23-07 | 1150 | C | | | | | | | 1 | 2 | 2 | X | X | 24 |
| 1120 IRIS BOTTOM 01 | 7-23-07 | 1500 | G | | | | | | | 1 | 2 | 2 | X | X | 25 |
| 1120 IRIS SIDE 02 | 7-23-07 | 1500 | C | | | | | | | 1 | 2 | 2 | X | X | 26 |
| 1116 IRIS BOTTOM 01 | 7-24-07 | 0800 | G | | | | | | | 1 | 2 | 2 | X | X | 27 |
| 1116 IRIS SIDE 02 | 7-24-07 | 0800 | C | | | | | | | 1 | 2 | 2 | X | X | 28 |

QC Deliverables: ___ None; X Level 2 (Batch QC); ___ Level 3; ___ Level 4; Other: ___

Special Instructions:
CHRIS Echevarria

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| Relinquished By: | 8/1/07 | 2900 | Received By: | 8/1/07 | 2900 |
| Relinquished By: | 8/1/07 | 1730 | Received By: | Date: 8/2 | Time: 9:00 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
8623 2591 1747
Method of Shipment: FedEx TOTA Orland.

**Appendix C**
**Regulatory Correspondence**

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

*Promoting and protecting the health of the public and the environment.*

April 9, 2009

Commanding Officer
ATTN: S-4 NREAO (Craig Ehde)
MCAS
PO Box 55001
Beaufort, SC 29904-5001

Re: MCAS – Laurel Bay Housing – 1150 Iris Lane
**Site ID # 04154**
Soil Sampling Results received March 24, 2009
Beaufort County

Dear Mr. Ehde:

The Department has reviewed the referenced assessment report. Based upon the geotechnical data in the referenced report, the soil samples are below risk based screening levels and there is no evidence of ground water contamination on the property.

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 803-896-4179 (office phone), 803-896-6245 (fax) or cookejt@dhec.sc.gov.

Sincerely,

Jan T. Cooke

B. Thomas Knight, Manager

Jan T. Cooke, Hydrogeologist
AST Petroleum Restoration & Site Environmental Investigations Section
Division of Site Assessment, Remediation & Revitalization
Bureau of Land and Waste Management

cc: Region 8 District EQC
Tri-Command Communities; Attn: Mr. Robert Bible; 600 Laurel Bay Road Beaufort, SC 29906